U.S. Environmental Protection Agency
Region 8
Technical and Management Services

Laboratory Services Program

Certificate of Analysis

Ref: 8TMS-L

MEMORANDUM

Date: 11/11/16

Subject: Analytical Results--- **Bonita Peak_Water 3_OCT_2016_A119 / A-119**

From: Don Goodrich; EPA Region 8 Analytical Chemistry WAM

To: Rebecca Thomas
Superfund
1595 Wynkoop Street

Received Sample Set(s), [Work Order : Date Received]:
[C161005 : 10/03/2016]

Attached are the analytical results for the samples received from the Bonita Peak_Water 3_OCT_2016_A119 sampling event, according to TDF A-119. All analyses were performed within their method specified holding times unless otherwise noted in the following narrative.

These samples were prepared, analyzed, and verified by the Environmental Services Assistance Team Laboratory (ESAT) according to the requirements of the Technical Direction Form (TDF).

Note: The laboratory herewith transmits this deliverable to the program/project partner for determination of "final data usability" which may include data validation and data quality asessment per and in accordance with EPA QA/G-8, *Guidance on Environmental Data Verification and Data Validation*, November 2002, EPA/240/R-02/004. Laboratory data qualifiers are applied based on the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* October 2004, referred to as "NFGI".

Laboratory policy is to dispose of any remaining sample 60 days after data analysis packages are delivered to EPA. If you would like the laboratory to retain the samples for a period longer than 60 days, please contact Don Goodrich within the 60 day period at (303) 312-6687.

Case Narrative

C161005

Quality Assessment: Unless indicated by exception, the QA/QC associated with this sample set produced data within the TDF-specified criteria.

Holding Times: All samples were analyzed within their method-specified technical holding time(s).

1. Initial and Continuing calibration blanks (ICBs and CCBs).
   Exceptions: None.
2. Preparation (PB) / Method blanks (MB)
   Exceptions: None.
3. Interference Checks (ICSA / ICSAB) for ICP-MS and ICP-OE analyses only.
   Exceptions: None.
4. Initial and Continuing calibration verification analyses (ICVs, SCVs and CCVs).
   Exceptions: In ICP-MS sequence 1610205. selenium recovered high in the SCV. In ICP-MS sequence 1610211, selenium recovered high in the SCV, CCV5, CCV7, and CCV8. In ICP-MS sequence 1611012, selenium recovered high in the SCV. There were no selenium detections.
5. Laboratory Control Sample (LCS) or second source analysis or SRM.
   Exceptions: In ICP-MS batch 1610177, selenium recovered high in the SRM. There were no selenium detections.
6. Laboratory Fortified blank (LFB) / Blank spike (BS), same source as used for the matrix spikes. PBS performed with analyses/methods requiring preparation or digestion prior to analysis.
   Exceptions: None.
7. Contract Reporting Detection Limit Standard, labeled as CRA, CRDL or CRL.
   Exceptions: None.
8. Laboratory Duplicate (DUP). "Source" identifies field sample duplicated in the laboratory. If either the "source" or the duplicate result is <5X the reporting limit, the %D limit of 20% does not apply.
   Exceptions: None.
9. Laboratory Matrix Spike (MS) and spike duplicate (MSD). "Source" defines original field sample fortified prior to analysis. Percent recovery (%R) limits do not apply when sample concentration(s) exceed the corresponding analyte spike level by a factor of 4 or greater.
   Exceptions: None.
10. Serial Dilution sample analysis (SRD). "Source" is parent field sample diluted 1:5 in the laboratory. Performed for ICP-OE and ICP-MS metals analyses. Percent difference (%D) limits do not apply when analyte concentration(s) are below 50x the source sample's MDL (or 10x it's PQL).
    Exceptions: None.
11. Internal standards, criteria specified for ICP-MS analyses only, monitored at the instrument.
    Exceptions: None.
12. Any calibration using more than two-points produced a correlation coefficient equal to or greater than 0.995.
    Exceptions: None.

Acronyms and Definitions:

ESAT	Environmental Services Assistance Team
J	Data Estimated qualifier (also applied to all data less than PQL, greater than or equal to MDL)
MDL	Method Detection Limit
PQL	Practical Quantitation Limit, also known as reporting limit.
RPD	Relative Percent Difference (difference divided by the mean)
%D	Percent difference, serial dilution criteria unit, difference divided by the original result.
%R	Percent recovery, analyzed (less sample contribution) divided by true value
<	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
mg/L	Parts per million (millligrams per liter). Solids equivalent = mg/Kg.
ug/L	Parts per billion (micrograms per liter). Solids equivalent = ug/Kg.
NR	No Recovery (matrix spike) - Often seen for calcium/magnesium when their concentration exceeds the spike level by > 4x.
NFGI	*USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* October 2004
RE	Sample Re-analysis. Usually seen on raw data and sequences for required sample dilutions due to over-range analytes.
U	Analyte not detected at or above MDL qualifier
D	Diluted value qualifier.

Method(s) Summary:

As defined in the Technical Direction Form (TDF), some or all of the methods listed below were used for the determination of the reported target analytes.

From EPA's *Methods for the Determination of Metals in Environmental Samples* , Supplement I, May 1994, dissolved, total, and/or total recoverable metals were determined by:

- Method 200.7 / 6010B using a PE Optima ICP -OE (ICP).
- Method 200.8 / 6020 using a Perkin -Elmer Elan 6000 ICP-MS.
- Method 200.2 for total recoverable metals (only) dige stion.
- Method 245.1 using a Perkin -Elmer FIMS CVAA (aqueous mercury only).

From *Standard Methods for the Examination of Water and Wastewater* , 18th Edition, 1992, Method 2340B was used for the calculated hardness determination. Hardness is reported as mg (milligram) equivalent $CaCO_3$ per liter (L) determined as follows:

Calculated hardness = 2.497 * (Calcium, mg/L) + 4.118 * (Magnesium, mg/L).

From *EPA's Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW -846*,

- Method 3015A was used for microwave assisted total metals digestion.
- Method 7473 was used for mercury in solids .

From EPA's *Determination of Inorganic Anions by Ion Chromatography* , Revision 2.1, 1993, Method 300.0 was used to determine the anions.

From EPA's *Methods for Chemical Analysis of Water and Wastes* , March 1983:

- Method 310.1 was followed for the alkalinity determination.
- Method 160.1 was followed for gravimetric total dissolved solids (TDS) determination.
- Method 160.2 was used for gravimetric total suspended sol ids (TSS) determination.
- Method 415.3 was used for total organic carbon (TOC) determination using either an Apollo 9000 or Phoenix 8000 Non-Dispersive IR (NDIR) system. Also known as dissolved organic carbon (DOC) when performed on the dissolved sample fraction.

The quality control procedures listed in the TDF request were utilized by ESAT to verify accuracy of the results and to evaluate any matrix interferences.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC-01B **Date / Time Sampled:** 09/27/16 09:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-02 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3780**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	**Beryllium**	**4.68**	J	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**203000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**24500**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**12200**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**25600**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**32100**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1760**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**31600**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**49.9**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**18.1**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**456**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**6.92**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**556**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC39 **Date / Time Sampled:** 09/27/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-04 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5930**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**158000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**10000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9560**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4400**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**29500**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1720**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2330**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Arsenic**	**2.60**	J	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.78**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**99.7**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**20.5**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**10.2**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**433**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC39B **Date / Time Sampled:** 09/28/16 13:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-07 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5760**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**158000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**12500**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9520**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4700**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**29100**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1800**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2170**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.49**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**59.0**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**13.5**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**10.4**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**435**		mg/L	2	1	10/26/2016	SV	1610185

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TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC41 **Date / Time Sampled:** 09/27/16 16:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-10 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5520**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**162000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**7480**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9660**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4920**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**28500**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1860**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2420**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**6.36**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**96.3**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**17.1**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**9.09**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**444**		mg/L	2	1	10/26/2016	SV	1610185

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TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC42 **Date / Time Sampled:** 09/27/16 14:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-13 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**140**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**216000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**1010**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**6510**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**1090**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**18300**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**4580**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**104**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**566**		mg/L	2	1	10/26/2016	SV	1610185

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TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC42F **Date / Time Sampled:** 09/27/16 15:10 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-16 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	Aluminum	< 50.0	U	ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**30700**		ug/L	100	1	10/26/2016	SV	1610185
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**1870**		ug/L	100	1	10/26/2016	SV	1610185
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**5260**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**266**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	**Copper**	**1.13**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
2340B	**Hardness**	**84**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC43C **Date / Time Sampled:** 09/27/16 17:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-19 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**168**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**215000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**1110**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**6500**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**1090**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**18400**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**4610**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**108**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**2.94**	J	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**564**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC43E **Date / Time Sampled:** 09/27/16 13:20 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-21 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5240**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**160000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**7080**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9210**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4150**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**27600**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**2050**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2050**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.01**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**81.9**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**13.9**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**7.68**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**437**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC46B **Date / Time Sampled:** 09/27/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-24 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5400**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**163000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**5830**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9390**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4560**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**27400**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**2070**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2420**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**6.27**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**175**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**12.9**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**7.75**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**446**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC47C **Date / Time Sampled:** 09/27/16 11:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-27 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5610**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**161000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**6530**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9380**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4130**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**28400**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1990**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2120**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.75**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**143**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**11.8**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**7.84**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**441**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: CC48 **Date / Time Sampled:** 09/27/16 09:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-30 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5540**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**161000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**5460**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9220**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4100**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**28200**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1980**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2180**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.77**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**154**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**11.9**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**7.89**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**441**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-12 **Date / Time Sampled:** 09/27/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-33 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5870**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**158000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**9810**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9420**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4430**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**29800**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1760**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2400**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.78**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**99.3**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**21.4**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**9.43**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**434**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-13 **Date / Time Sampled:** 09/27/16 16:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-36 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1190**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**54900**		ug/L	100	1	10/26/2016	SV	1610185
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**7000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**2370**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**6940**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**342**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2290**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Cadmium**	**12.1**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	**Copper**	**125**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Lead**	**1.79**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	**Nickel**	**4.66**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
2340B	**Hardness**	**166**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-14 **Date / Time Sampled:** 09/28/16 13:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-39 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5770**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**162000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**12900**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**9640**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**4760**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**29500**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1830**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**2300**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**5.37**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**59.7**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**13.1**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**9.60**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**444**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-15 **Date / Time Sampled:** 09/28/16 17:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-42 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**192**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**136000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**1590**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**6710**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**1090**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**17200**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1770**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**401**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**1.54**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**5.47**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**367**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-16 **Date / Time Sampled:** 09/29/16 14:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-45 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3190**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**37700**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**397**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**5500**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**588**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**8420**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**817**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**407**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Cadmium**	**1.61**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	**Copper**	**35.5**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Lead**	**45.9**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	**Nickel**	**6.29**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
2340B	**Hardness**	**117**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-17 **Date / Time Sampled:** 09/29/16 16:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-48 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**128**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**41200**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**228**	J	ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**4850**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**296**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**6360**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1050**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**445**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Cadmium**	**1.88**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	**Copper**	**30.4**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Lead**	**20.7**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	**Nickel**	**2.96**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
2340B	**Hardness**	**123**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-18 **Date / Time Sampled:** 09/29/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-51 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1500**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**165000**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**21700**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**10800**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**10700**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**20100**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1720**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**6700**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Cadmium**	**16.6**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	**Copper**	**96.3**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	**Lead**	**6.65**		ug/L	0.500	5	10/26/2016	SV	1610186
200.8	**Nickel**	**13.4**		ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610186
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610186
2340B	**Hardness**	**457**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-19 **Date / Time Sampled:** 09/30/16 09:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-54 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**59.1**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**44300**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**304**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**4410**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**219**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**5520**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**1210**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**463**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Cadmium**	**1.77**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	**Copper**	**20.5**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Lead**	**8.22**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	**Nickel**	**1.19**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
2340B	**Hardness**	**129**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-20 **Date / Time Sampled:** 09/30/16 16:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-57 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1660**		ug/L	20.0	1	10/26/2016	SV	1610185
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Calcium**	**72600**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Iron**	**145**	J	ug/L	100	1	10/26/2016	SV	1610185
200.7	**Magnesium**	**6350**		ug/L	100	1	10/26/2016	SV	1610185
200.7	**Manganese**	**2860**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Silica (SiO2)**	**12500**		ug/L	250	1	10/26/2016	SV	1610185
200.7	**Strontium**	**636**		ug/L	2.00	1	10/26/2016	SV	1610185
200.7	**Zinc**	**3790**		ug/L	10.0	1	10/26/2016	SV	1610185
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Cadmium**	**13.3**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	**Copper**	**137**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	**Lead**	**8.00**		ug/L	0.100	1	10/26/2016	SV	1610186
200.8	**Nickel**	**4.18**		ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610186
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610186
2340B	**Hardness**	**207**		mg/L	2	1	10/26/2016	SV	1610185

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-21 **Date / Time Sampled:** 09/28/16 15:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-60 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7290**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**106000**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**14300**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**10400**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**978**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**20700**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**944**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**143**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.975**	J	ug/L	0.500	5	10/26/2016	SV	1610192
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610192
200.8	**Copper**	**5.26**		ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610192
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610192
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610192
2340B	**Hardness**	**307**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-22 **Date / Time Sampled:** 09/29/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-63 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7680**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**110000**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**16500**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**10900**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**1040**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**20900**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**981**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**151**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	**Cadmium**	**1.12**		ug/L	0.500	5	10/26/2016	SV	1610192
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610192
200.8	**Copper**	**6.70**		ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/26/2016	SV	1610192
200.8	**Nickel**	**2.85**	J	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610192
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/26/2016	SV	1610192
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/26/2016	SV	1610192
2340B	**Hardness**	**321**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: Dup-23 **Date / Time Sampled:** 09/30/16 10:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-66 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2460**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**90900**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**16600**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**16500**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**6360**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**12800**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**2300**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**5970**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Arsenic**	**2.49**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**19.0**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Chromium**	**1.10**	J	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**305**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**18.0**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**12.1**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**295**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: FB-07 **Date / Time Sampled:** 09/30/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Water **Lab Number:** C161005-69 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	Aluminum	< 50.0	U	ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	Calcium	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	Magnesium	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	Silica (SiO2)	< 1000	U	ug/L	250	1	10/26/2016	SV	1610191
200.7	Strontium	< 10.0	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	Hardness	< 2		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: FB-16 **Date / Time Sampled:** 09/28/16 18:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Water **Lab Number:** C161005-72 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	Aluminum	< 50.0	U	ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	Calcium	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	Magnesium	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	Silica (SiO2)	< 1000	U	ug/L	250	1	10/26/2016	SV	1610191
200.7	Strontium	< 10.0	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	Hardness	< 2		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M07 **Date / Time Sampled:** 09/30/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-75 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**68.0**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**25400**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**3020**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**241**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**4140**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**542**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**460**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**1.36**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**11.4**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**12.0**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**0.781**	J	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**76**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M08 **Date / Time Sampled:** 09/30/16 15:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-78 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**53.9**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**19100**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**2040**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**85.3**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**3470**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**399**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**37.1**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.218**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**0.978**	J	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**0.247**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**56**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M10 **Date / Time Sampled:** 09/30/16 13:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-81 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**48.4**	J	ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**53100**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**1900**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**27.5**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**6740**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**791**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**43.9**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.187**	J	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**1.32**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**0.151**	J	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**140**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M10A **Date / Time Sampled:** 09/30/16 13:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-84 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**67.0**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**27600**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**3020**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**243**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**4340**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**571**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**475**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**1.41**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**11.0**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**10.9**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**0.641**	J	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**81**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M10B **Date / Time Sampled:** 09/30/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-87 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**25.2**	J	ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**45600**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**3000**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**6790**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**858**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**20.6**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**0.662**	J	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**126**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M11 **Date / Time Sampled:** 09/30/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-90 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**57.9**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**42500**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**2340**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**113**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**5710**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**692**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**215**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.672**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**5.27**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**4.69**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**116**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M12 **Date / Time Sampled:** 09/29/16 16:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-93 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**8700**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**48800**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**1040**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**8800**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**2280**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**14100**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**579**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**1370**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**6.20**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**54.4**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**4.02**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**11.4**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**158**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M12A **Date / Time Sampled:** 09/30/16 09:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-96 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**9630**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**41400**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**627**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**7350**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**1440**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**11800**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**598**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**363**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**1.49**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**32.2**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**1.55**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**8.40**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**134**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M12B **Date / Time Sampled:** 09/30/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-99 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**11000**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**36300**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**1050**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**6840**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**1190**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**11300**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**546**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**81.5**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.307**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**20.1**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**0.631**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**7.48**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**119**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M12C **Date / Time Sampled:** 09/30/16 10:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AC A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2450**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**90600**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**16600**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**16400**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**6390**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**13000**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**2270**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**5950**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Arsenic**	**2.70**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**18.8**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Chromium**	**1.07**	J	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**302**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**18.2**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**12.1**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**293**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M12D **Date / Time Sampled:** 09/30/16 10:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AF A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2170**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**91700**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**10400**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**16500**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**6300**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**12000**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**2320**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**6100**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Arsenic**	**1.40**	J	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**19.0**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**317**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**19.5**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**11.2**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**297**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M13A **Date / Time Sampled:** 09/30/16 11:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AI A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**65.3**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**44700**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**2540**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**130**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**6620**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**712**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**218**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.685**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**5.27**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**4.15**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**122**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M13B **Date / Time Sampled:** 09/29/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AL A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**76.0**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**45800**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**2580**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**144**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**7190**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**708**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**245**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.746**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**4.73**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**2.79**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**11.1**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**125**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M13D **Date / Time Sampled:** 09/29/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AO A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**68.9**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**46300**		ug/L	100	1	10/26/2016	SV	1610191
200.7	Iron	< 250	U	ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**2770**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**212**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**7450**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**706**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**268**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**0.945**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**4.32**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**1.37**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**127**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M14 **Date / Time Sampled:** 09/28/16 16:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AR A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**27400**		ug/L	20.0	1	10/26/2016	SV	1610191
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Calcium**	**32600**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Iron**	**19400**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Magnesium**	**6510**		ug/L	100	1	10/26/2016	SV	1610191
200.7	**Manganese**	**750**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Silica (SiO2)**	**35600**		ug/L	250	1	10/26/2016	SV	1610191
200.7	**Strontium**	**318**		ug/L	2.00	1	10/26/2016	SV	1610191
200.7	**Zinc**	**145**		ug/L	10.0	1	10/26/2016	SV	1610191
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Cadmium**	**3.17**		ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Chromium**	**2.96**		ug/L	1.00	1	10/26/2016	SV	1610192
200.8	**Copper**	**471**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	**Lead**	**0.136**	J	ug/L	0.100	1	10/26/2016	SV	1610192
200.8	**Nickel**	**23.0**		ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/26/2016	SV	1610192
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/26/2016	SV	1610192
2340B	**Hardness**	**108**		mg/L	2	1	10/26/2016	SV	1610191

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M14A **Date / Time Sampled:** 09/28/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AU A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**77.1**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**44500**		ug/L	100	1	10/27/2016	SV	1610196
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**2710**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**184**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**7370**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**689**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**212**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Cadmium**	**0.878**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	**Copper**	**3.47**		ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Lead**	**0.860**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**122**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M14B **Date / Time Sampled:** 09/28/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AX A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**47.0**	J	ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**44200**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**126**	J	ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**2770**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**209**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**8060**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**678**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**220**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Cadmium**	**0.891**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	**Copper**	**7.03**		ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Lead**	**0.414**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**122**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M14B **Date / Time Sampled:** 09/28/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-BA A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**47.1**	J	ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**45500**		ug/L	100	1	10/27/2016	SV	1610196
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**2940**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**51.3**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**8880**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**648**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**317**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Cadmium**	**0.812**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	**Copper**	**3.99**		ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Lead**	**0.978**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**126**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M15 **Date / Time Sampled:** 09/28/16 17:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BD A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**35.0**	J	ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**16900**		ug/L	100	1	10/27/2016	SV	1610196
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**2040**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**94.5**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**9400**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**102**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**10.5**	J	ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**51**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16 **Date / Time Sampled:** 09/29/16 11:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BG A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**22400**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	**Beryllium**	**2.41**	J	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**383000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**73900**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**44100**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**6390**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**30000**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**2690**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**718**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**1.33**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	**Nickel**	**9.79**		ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**1140**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16A **Date / Time Sampled:** 09/29/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BJ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**21400**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	**Beryllium**	**2.35**	J	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**384000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**74000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**44300**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**6370**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**29900**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**2690**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**718**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**1.31**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	**Nickel**	**10.8**		ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**1140**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16B **Date / Time Sampled:** 09/29/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BM A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**377**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**362000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**5110**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**6970**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**826**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**11200**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**2420**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	**Copper**	**5.48**		ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**932**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16C **Date / Time Sampled:** 09/29/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BP A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**51.4**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**205000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**1420**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**4970**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**913**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**24000**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**1420**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**62.6**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**532**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16D **Date / Time Sampled:** 09/29/16 12:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BS A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**114**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**171000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**16200**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**12600**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**2670**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**30400**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**894**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**692**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**0.708**	J	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Lead**	**2.41**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**479**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16E **Date / Time Sampled:** 09/29/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BV A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**110**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**101000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**627**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**6850**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**398**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**16100**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**1110**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**63.9**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**280**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16F **Date / Time Sampled:** 09/29/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BY A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**32.7**	J	ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**29700**		ug/L	100	1	10/27/2016	SV	1610196
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**2320**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**64.2**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**10700**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**223**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**11.5**	J	ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**84**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16G **Date / Time Sampled:** 09/29/16 12:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CB A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**142**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**95900**		ug/L	100	1	10/27/2016	SV	1610196
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**6790**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**342**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**15500**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**1130**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**37.0**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Cadmium**	**0.311**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	**Copper**	**0.662**	J	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**267**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M16H **Date / Time Sampled:** 09/29/16 09:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CE A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1670**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**122000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**11000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**10800**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**1190**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**16300**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**1080**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**148**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Lead**	**0.563**	J	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**349**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M17 **Date / Time Sampled:** 09/29/16 09:05 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CH A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1280**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**125000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**10500**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**10700**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**1170**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**16500**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**1110**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**146**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**356**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M17A **Date / Time Sampled:** 09/29/16 15:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CK A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**291**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**117000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**8390**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**8870**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**915**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**17200**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**1050**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**109**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**329**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M18 **Date / Time Sampled:** 09/29/16 15:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CN A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**35200**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**76400**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**50800**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**18300**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**1400**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**31500**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**657**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**250**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Arsenic**	**0.720**	J	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Cadmium**	**4.66**		ug/L	0.100	1	10/27/2016	SV	1610197
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	**Copper**	**20.9**		ug/L	0.500	1	10/27/2016	SV	1610197
200.8	**Lead**	**0.149**	J	ug/L	0.100	1	10/27/2016	SV	1610197
200.8	**Nickel**	**14.2**		ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610197
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610197
2340B	**Hardness**	**266**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M19 **Date / Time Sampled:** 09/29/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CQ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7870**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**107000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**16400**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**11100**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**1030**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**20700**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**971**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**140**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**1.18**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	**Copper**	**5.20**		ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Lead**	**3.83**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	**Nickel**	**2.99**	J	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**314**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M20 **Date / Time Sampled:** 09/29/16 15:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CT A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7330**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**103000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**13900**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**10400**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**949**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**20400**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**931**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**129**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**1.04**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	**Copper**	**4.63**	J	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**300**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M20 **Date / Time Sampled:** 09/29/16 15:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-CW A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7470**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**105000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**12600**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**10400**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**1030**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**20500**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**936**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**140**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**1.20**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	**Copper**	**5.52**		ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Lead**	**1.62**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	**Nickel**	**2.95**	J	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**304**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M22 **Date / Time Sampled:** 09/28/16 14:05 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CZ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7200**		ug/L	20.0	1	10/27/2016	SV	1610196
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Calcium**	**101000**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Iron**	**12200**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Magnesium**	**10100**		ug/L	100	1	10/27/2016	SV	1610196
200.7	**Manganese**	**946**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Silica (SiO2)**	**20800**		ug/L	250	1	10/27/2016	SV	1610196
200.7	**Strontium**	**923**		ug/L	2.00	1	10/27/2016	SV	1610196
200.7	**Zinc**	**154**		ug/L	10.0	1	10/27/2016	SV	1610196
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	**Cadmium**	**1.21**		ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	**Copper**	**5.23**		ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610197
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610197
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610197
2340B	**Hardness**	**295**		mg/L	2	1	10/27/2016	SV	1610196

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M23 **Date / Time Sampled:** 09/27/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DC A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**554**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**22900**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**3940**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**200**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**7490**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**138**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**40.0**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.349**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**1.33**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**0.246**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**4.97**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**73**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M24A **Date / Time Sampled:** 09/28/16 11:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DF A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**36.0**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**84700**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**195**	J	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**6470**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**4870**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**10900**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**549**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**8750**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**35.8**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**3.15**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**0.147**	J	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**7.70**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**238**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M24B **Date / Time Sampled:** 09/28/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DI A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**37.8**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**84200**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**5300**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**6320**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**4940**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**12100**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**543**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**11200**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Arsenic**	**0.507**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**48.0**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**19.3**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**3.69**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**8.14**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**236**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M24C **Date / Time Sampled:** 09/28/16 11:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DK A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**30.1**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**127000**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**141**	J	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**7030**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**2030**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**13200**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**750**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**541**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610201
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/27/2016	SV	1610201
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/27/2016	SV	1610201
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610201
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610201
200.8	**Lead**	**0.581**	J	ug/L	0.500	5	10/27/2016	SV	1610201
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610201
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610201
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/27/2016	SV	1610201
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/27/2016	SV	1610201
2340B	**Hardness**	**346**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M24CROM **Date / Time Sampled:** 09/28/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DN A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**22.4**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**16900**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**1370**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**7850**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**92.8**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**48**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M24D **Date / Time Sampled:** 09/27/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DQ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	Aluminum	< 50.0	U	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**84000**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**6330**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**4630**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**10700**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**542**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**9250**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**35.2**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**2.23**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**8.14**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**236**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M25 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DT A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**266**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**24400**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**3760**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**202**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**7540**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**152**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**111**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.622**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**1.20**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**4.75**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**76**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M26 **Date / Time Sampled:** 09/28/16 09:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DW A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**30.0**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**23800**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2130**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**167**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**4190**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**153**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**29.0**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.175**	J	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**68**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M26B **Date / Time Sampled:** 09/28/16 09:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DZ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**32.0**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**24100**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2810**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**139**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**5950**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**159**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**40.2**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.236**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**0.590**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**1.82**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**72**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M26D **Date / Time Sampled:** 09/28/16 08:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EC A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**50.5**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**32200**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2900**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**88.1**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**6850**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**231**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**24.6**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.152**	J	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**0.668**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**92**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M27 **Date / Time Sampled:** 09/27/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EF A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**13200**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**61300**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**63400**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**8300**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**1960**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**66200**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**751**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**285**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.716**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**15.7**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**85.6**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**13.3**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**187**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M27 **Date / Time Sampled:** 09/27/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EI A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1980**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**63000**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**3630**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**5180**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**480**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**13500**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**705**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**220**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**1.01**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**12.5**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**5.17**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**1.05**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**179**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M27A **Date / Time Sampled:** 09/28/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EL A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2080**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**64800**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**4330**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**5400**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**476**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**12800**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**738**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**205**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**1.06**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**9.02**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**2.64**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**1.02**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**184**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M27A **Date / Time Sampled:** 09/28/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EO A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**118**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**22800**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**117**	J	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2580**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**97.0**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**18900**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**159**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**15.3**	J	ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**0.576**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**0.798**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**68**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M28 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-ER A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**97.0**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**31700**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**294**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2920**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**81.2**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**7170**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**228**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**16.9**	J	ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.139**	J	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**0.534**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**91**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M28 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EU A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7080**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**88000**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**24100**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**6770**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**1820**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**59600**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**533**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**153**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**1.35**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**5.42**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**6.19**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**8.59**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Thallium**	**2.02**		ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**248**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M29 **Date / Time Sampled:** 09/27/16 12:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EX A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**62.0**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**42600**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**1510**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**3740**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**260**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**10600**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**409**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**128**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.556**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**2.86**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Lead**	**0.455**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**1.06**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**122**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M30 **Date / Time Sampled:** 09/27/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FA A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**36.6**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**25600**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2280**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**6.31**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**6880**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**114**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**0.540**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**73**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M30 **Date / Time Sampled:** 09/27/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-FD A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**37.8**	J	ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**25300**		ug/L	100	1	10/27/2016	SV	1610200
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**2260**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**3.53**	J	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**6910**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**115**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Copper	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**72**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M32 **Date / Time Sampled:** 09/27/16 12:20 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FG A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**60.4**		ug/L	20.0	1	10/27/2016	SV	1610200
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Calcium**	**41700**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Iron**	**1580**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Magnesium**	**3600**		ug/L	100	1	10/27/2016	SV	1610200
200.7	**Manganese**	**211**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Silica (SiO2)**	**9600**		ug/L	250	1	10/27/2016	SV	1610200
200.7	**Strontium**	**369**		ug/L	2.00	1	10/27/2016	SV	1610200
200.7	**Zinc**	**94.5**		ug/L	10.0	1	10/27/2016	SV	1610200
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	**Cadmium**	**0.426**		ug/L	0.100	1	10/27/2016	SV	1610201
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	**Copper**	**1.57**		ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610201
200.8	**Nickel**	**0.856**	J	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610201
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610201
2340B	**Hardness**	**119**		mg/L	2	1	10/27/2016	SV	1610200

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M33 **Date / Time Sampled:** 09/27/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FJ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**35.9**	J	ug/L	20.0	1	10/27/2016	SV	1610202
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Calcium**	**41600**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Iron**	**1330**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Magnesium**	**3720**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Manganese**	**226**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Silica (SiO2)**	**9360**		ug/L	250	1	10/27/2016	SV	1610202
200.7	**Strontium**	**368**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Zinc**	**98.1**		ug/L	10.0	1	10/27/2016	SV	1610202
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	**Cadmium**	**0.456**		ug/L	0.100	1	10/27/2016	SV	1610203
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	**Copper**	**1.69**		ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610203
200.8	**Nickel**	**0.817**	J	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
2340B	**Hardness**	**119**		mg/L	2	1	10/27/2016	SV	1610202

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M34 **Date / Time Sampled:** 09/27/16 09:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FM A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**38.0**	J	ug/L	20.0	1	10/27/2016	SV	1610202
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Calcium**	**41600**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Iron**	**1340**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Magnesium**	**3720**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Manganese**	**228**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Silica (SiO2)**	**9390**		ug/L	250	1	10/27/2016	SV	1610202
200.7	**Strontium**	**368**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Zinc**	**98.0**		ug/L	10.0	1	10/27/2016	SV	1610202
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	**Cadmium**	**0.460**		ug/L	0.100	1	10/27/2016	SV	1610203
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	**Copper**	**1.51**		ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610203
200.8	**Nickel**	**0.842**	J	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
2340B	**Hardness**	**119**		mg/L	2	1	10/27/2016	SV	1610202

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M34 **Date / Time Sampled:** 09/27/16 09:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-FP A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**23.7**	J	ug/L	20.0	1	10/27/2016	SV	1610202
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Calcium**	**40100**		ug/L	100	1	10/27/2016	SV	1610202
200.7	Iron	< 250	U	ug/L	100	1	10/27/2016	SV	1610202
200.7	**Magnesium**	**3790**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Manganese**	**7.21**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Silica (SiO2)**	**8430**		ug/L	250	1	10/27/2016	SV	1610202
200.7	**Strontium**	**361**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Zinc**	**23.6**		ug/L	10.0	1	10/27/2016	SV	1610202
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Cadmium	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610203
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	**Copper**	**0.739**	J	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610203
200.8	Nickel	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
2340B	**Hardness**	**116**		mg/L	2	1	10/27/2016	SV	1610202

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods

Station ID: M38 **Date / Time Sampled:** 09/27/16 09:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FS A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**35.0**	J	ug/L	20.0	1	10/27/2016	SV	1610202
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Calcium**	**41300**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Iron**	**1320**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Magnesium**	**3780**		ug/L	100	1	10/27/2016	SV	1610202
200.7	**Manganese**	**228**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Silica (SiO2)**	**9380**		ug/L	250	1	10/27/2016	SV	1610202
200.7	**Strontium**	**368**		ug/L	2.00	1	10/27/2016	SV	1610202
200.7	**Zinc**	**96.5**		ug/L	10.0	1	10/27/2016	SV	1610202
200.8	Antimony	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Arsenic	< 2.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	**Cadmium**	**0.451**		ug/L	0.100	1	10/27/2016	SV	1610203
200.8	Chromium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	**Copper**	**1.51**		ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Lead	< 0.200	U	ug/L	0.100	1	10/27/2016	SV	1610203
200.8	**Nickel**	**0.818**	J	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Selenium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
200.8	Silver	< 1.00	U	ug/L	0.500	1	10/27/2016	SV	1610203
200.8	Thallium	< 2.00	U	ug/L	1.00	1	10/27/2016	SV	1610203
2340B	**Hardness**	**119**		mg/L	2	1	10/27/2016	SV	1610202

"J" Qualifier indicates an estimated value

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC-01B **Date / Time Sampled:** 09/27/16 09:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-01 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3980**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	**Beryllium**	**4.68**	J	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**214000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**26300**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**12700**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**26000**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**31900**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1870**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**32500**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**48.9**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**18.1**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**423**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**11.7**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC39 **Date / Time Sampled:** 09/27/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-03 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6770**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**164000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**14800**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9930**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4460**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**30400**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1820**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2400**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**6.93**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**5.72**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**108**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**44.7**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**10.9**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Thallium**	**10.8**		ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC39B **Date / Time Sampled:** 09/28/16 13:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-06 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6180**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**162000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**13700**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9870**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4690**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**29100**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1890**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2140**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**4.78**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**5.43**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**55.0**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**13.7**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**10.2**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Thallium**	**11.6**		ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC41 **Date / Time Sampled:** 09/27/16 16:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-09 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6220**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**172000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**12500**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**10200**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**5110**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**28800**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1970**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2610**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**6.49**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**6.63**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**141**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**27.2**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**10.6**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC42 **Date / Time Sampled:** 09/27/16 14:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-12 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**489**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**227000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**2540**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**6750**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**1120**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**18400**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**4700**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**119**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**12.8**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**2.80**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC42F **Date / Time Sampled:** 09/27/16 15:10 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-15 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**29.2**	J	ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**31800**		ug/L	100	1	10/31/2016	SV	1610175
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**1930**		ug/L	100	1	10/31/2016	SV	1610175
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**5220**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**271**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC43C **Date / Time Sampled:** 09/27/16 17:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-18 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**486**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**223000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**2440**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**6770**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**1130**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**18600**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**4710**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**121**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**12.2**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**2.65**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC43E **Date / Time Sampled:** 09/27/16 13:20 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-20 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5630**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**167000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**10100**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9420**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4170**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**27300**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**2080**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2070**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**3.60**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**5.06**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**84.9**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**15.2**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**9.19**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC46B **Date / Time Sampled:** 09/27/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-23 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6050**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**171000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**11100**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9850**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4580**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**27300**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**2100**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2450**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**6.68**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**6.55**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Chromium**	**8.76**	J	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**189**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**14.8**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**9.17**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC47C **Date / Time Sampled:** 09/27/16 11:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-26 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6070**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**171000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**11200**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9660**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4170**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**28100**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**2030**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2180**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**4.05**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**5.50**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**147**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**13.0**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**9.13**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: CC48 **Date / Time Sampled:** 09/27/16 09:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-29 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6110**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**168000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**10700**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9600**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4120**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**28200**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**2030**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2170**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**4.64**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**5.50**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**165**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**13.2**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**8.74**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-12 **Date / Time Sampled:** 09/27/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-32 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6880**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**163000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**15100**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**10100**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4480**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**30300**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1800**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2440**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**6.67**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**6.01**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**110**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**47.8**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**10.3**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-13 **Date / Time Sampled:** 09/27/16 16:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-35 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1910**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**55000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**260**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**7240**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**2340**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**6860**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**347**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2160**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**12.1**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**125**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**2.44**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**5.32**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-14 **Date / Time Sampled:** 09/28/16 13:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-38 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6100**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**165000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**13800**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**9790**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**4690**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**28800**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1860**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**2180**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Arsenic**	**5.23**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**5.22**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**54.5**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**13.7**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**10.3**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-15 **Date / Time Sampled:** 09/28/16 17:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-41 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1380**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**137000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**2330**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**6790**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**1070**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**17800**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1830**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**388**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**1.55**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**13.3**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**1.39**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-16 **Date / Time Sampled:** 09/29/16 14:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-44 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3530**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**37100**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**530**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**5530**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**570**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**8300**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**840**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**383**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**1.41**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**35.1**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**43.5**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**6.09**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-17 **Date / Time Sampled:** 09/29/16 16:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-47 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**638**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**40800**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**508**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**4870**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**292**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**6440**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1060**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**414**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**1.74**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**34.9**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**30.5**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**3.31**	J	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-18 **Date / Time Sampled:** 09/29/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-50 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2820**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	**Beryllium**	**2.12**	J	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**167000**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**22300**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**11200**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**10500**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**20400**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1750**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**6230**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**15.0**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**98.0**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**19.6**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	**Nickel**	**14.1**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-19 **Date / Time Sampled:** 09/30/16 09:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-53 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**845**		ug/L	20.0	1	10/31/2016	SV	1610175
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Calcium**	**44500**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Iron**	**1880**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Magnesium**	**4520**		ug/L	100	1	10/31/2016	SV	1610175
200.7	**Manganese**	**241**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Silica (SiO2)**	**6090**		ug/L	250	1	10/31/2016	SV	1610175
200.7	**Strontium**	**1240**		ug/L	2.00	1	10/31/2016	SV	1610175
200.7	**Zinc**	**508**		ug/L	10.0	1	10/31/2016	SV	1610175
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Cadmium**	**1.93**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	**Copper**	**51.6**		ug/L	2.50	5	10/31/2016	SV	1610175
200.8	**Lead**	**49.4**		ug/L	0.500	5	10/31/2016	SV	1610175
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610175
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610175

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-20 **Date / Time Sampled:** 09/30/16 16:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-56 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1840**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**73000**		ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**6420**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**2820**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**12300**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**646**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**3510**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**12.3**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**129**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**7.18**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**4.51**	J	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-21 **Date / Time Sampled:** 09/28/16 15:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-59 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**10200**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**110000**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**10100**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**10800**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**976**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**20900**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**958**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**138**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**0.997**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**5.26**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**0.519**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**3.44**	J	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Thallium**	**10.9**		ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-22 **Date / Time Sampled:** 09/29/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-62 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**11300**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**114000**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**18400**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**11400**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**1030**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**21500**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**1000**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**142**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**1.01**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**5.64**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**0.794**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**3.75**	J	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Thallium**	**11.3**		ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: Dup-23 **Date / Time Sampled:** 09/30/16 10:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-65 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3050**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**95300**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**34300**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**17100**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**6390**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**13100**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**2340**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**5810**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Arsenic**	**20.4**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**19.0**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**319**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**25.2**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**13.8**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: FB-07 **Date / Time Sampled:** 09/30/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Water **Lab Number:** C161005-68 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	Aluminum	< 50.0	U	ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	Calcium	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	Magnesium	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	Silica (SiO2)	< 1000	U	ug/L	250	1	10/31/2016	SV	1610176
200.7	Strontium	< 10.0	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: FB-16 **Date / Time Sampled:** 09/28/16 18:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Water **Lab Number:** C161005-71 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	Aluminum	< 50.0	U	ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	Calcium	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	Magnesium	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	Manganese	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	Silica (SiO2)	< 1000	U	ug/L	250	1	10/31/2016	SV	1610176
200.7	Strontium	< 10.0	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/07/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/07/2016	SV	1610176
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/07/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/07/2016	SV	1610176
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/07/2016	SV	1610176
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/07/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/07/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/07/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/07/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/07/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M07 **Date / Time Sampled:** 09/30/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-74 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**187**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**26300**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**206**	J	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**3140**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**243**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**4150**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**560**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**460**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**1.45**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**21.2**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**36.8**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M08 **Date / Time Sampled:** 09/30/16 15:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-77 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**265**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**19800**		ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**2120**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**87.1**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**3490**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**406**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**42.1**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**0.777**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M10 **Date / Time Sampled:** 09/30/16 13:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-80 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**122**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**55300**		ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**1970**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**30.0**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**6680**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**812**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**43.8**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**0.590**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M10A **Date / Time Sampled:** 09/30/16 13:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-83 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**172**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**28800**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**201**	J	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**3110**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**246**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**4350**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**594**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**466**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**1.41**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**20.7**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**34.3**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M10B **Date / Time Sampled:** 09/30/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-86 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**33.0**	J	ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**47900**		ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**3060**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**6.95**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**6770**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**889**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**21.6**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M11 **Date / Time Sampled:** 09/30/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-89 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**171**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**44200**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**145**	J	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**2440**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**133**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**5710**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**711**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**224**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**0.732**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**9.83**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**18.0**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M12 **Date / Time Sampled:** 09/29/16 16:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-92 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**9130**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**50300**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**1210**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**9020**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**2280**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**13800**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**599**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**1300**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**6.07**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**53.4**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**3.88**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**12.1**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M12A **Date / Time Sampled:** 09/30/16 09:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-95 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**10200**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**42400**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**1200**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**7500**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**1440**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**11800**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**612**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**347**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**1.28**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**31.7**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**1.66**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**8.86**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M12B **Date / Time Sampled:** 09/30/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-98 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**11900**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**37300**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**1770**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**7210**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**1190**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**11300**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**570**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**81.0**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**19.6**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**0.810**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**7.84**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M12C **Date / Time Sampled:** 09/30/16 10:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AB A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3020**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**93600**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**33700**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**17100**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**6380**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**13300**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**2340**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**5690**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Arsenic**	**20.6**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**19.0**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**319**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**25.0**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**12.9**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M12D **Date / Time Sampled:** 09/30/16 10:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AE A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2770**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**93200**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Iron**	**27600**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**17100**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**6300**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**12300**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**2410**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**5810**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Arsenic**	**20.1**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**18.9**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**328**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**24.7**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	**Nickel**	**11.7**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M13A **Date / Time Sampled:** 09/30/16 11:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AH A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**153**		ug/L	20.0	1	10/31/2016	SV	1610176
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Calcium**	**46100**		ug/L	100	1	10/31/2016	SV	1610176
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610176
200.7	**Magnesium**	**2620**		ug/L	100	1	10/31/2016	SV	1610176
200.7	**Manganese**	**131**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Silica (SiO2)**	**6540**		ug/L	250	1	10/31/2016	SV	1610176
200.7	**Strontium**	**727**		ug/L	2.00	1	10/31/2016	SV	1610176
200.7	**Zinc**	**215**		ug/L	10.0	1	10/31/2016	SV	1610176
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Cadmium**	**0.708**	J	ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	**Copper**	**8.23**		ug/L	2.50	5	10/31/2016	SV	1610176
200.8	**Lead**	**11.8**		ug/L	0.500	5	10/31/2016	SV	1610176
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610176
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610176

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M13B **Date / Time Sampled:** 09/29/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AK A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**166**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**46400**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**162**	J	ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**2660**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**144**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**7140**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**727**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**234**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**0.662**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**8.05**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**10.5**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M13D **Date / Time Sampled:** 09/29/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AN A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**607**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**46600**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**217**	J	ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**2870**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**220**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**7680**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**732**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**272**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**0.966**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**11.2**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**13.5**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Thallium**	**9.85**	J	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M14 **Date / Time Sampled:** 09/28/16 16:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AQ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**28300**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**33500**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**19200**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**6600**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**743**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**34500**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**318**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**137**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**3.00**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**486**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	**Nickel**	**24.4**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Thallium**	**10.3**		ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M14A **Date / Time Sampled:** 09/28/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AT A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**372**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**45400**		ug/L	100	1	10/31/2016	SV	1610177
200.7	Iron	< 250	U	ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**2730**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**185**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**7490**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**688**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**223**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**0.812**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**8.08**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**8.68**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M14B **Date / Time Sampled:** 09/28/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AW A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1020**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**45400**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**581**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**2860**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**211**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**8360**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**674**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**224**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**0.850**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**18.1**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**10.1**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M14B **Date / Time Sampled:** 09/28/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-AZ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**10600**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**47300**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**16000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**4030**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**1010**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**24100**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**664**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**664**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Arsenic**	**32.1**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**1.98**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**155**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**369**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	**Nickel**	**3.33**	J	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M15 **Date / Time Sampled:** 09/28/16 17:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BC A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**692**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**17400**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**408**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**2110**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**96.1**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**9680**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**103**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**12.5**	J	ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16 **Date / Time Sampled:** 09/29/16 11:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BF A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**33700**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	**Beryllium**	**2.99**	J	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**397000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**74400**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**45500**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**6300**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**30500**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**2720**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**692**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**1.40**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**2.70**	J	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	**Nickel**	**13.5**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16A **Date / Time Sampled:** 09/29/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BI A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**33700**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	**Beryllium**	**3.03**	J	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**395000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**74100**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**45800**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**6320**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**30600**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**2720**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**699**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**1.37**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**3.01**	J	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	**Nickel**	**13.1**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16B **Date / Time Sampled:** 09/29/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BL A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**750**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**375000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**12700**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**7310**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**851**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**12000**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**2460**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**11.2**	J	ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**2.70**	J	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**0.947**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16C **Date / Time Sampled:** 09/29/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BO A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**75.2**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**212000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**1530**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**5070**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**919**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**24200**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**1410**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**62.6**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**0.855**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16D **Date / Time Sampled:** 09/29/16 12:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BR A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**186**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**179000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**16600**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**12900**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**2690**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**30600**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**898**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**692**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**0.705**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**4.04**	J	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**15.0**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16E **Date / Time Sampled:** 09/29/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BU A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1560**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**105000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**1070**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**7190**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**403**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**17000**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**1120**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**64.2**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**1.45**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16F **Date / Time Sampled:** 09/29/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BX A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**345**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**29900**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**175**	J	ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**2340**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**65.4**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**10900**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**218**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	Zinc	< 20.0	U	ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16G **Date / Time Sampled:** 09/29/16 12:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CA A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1490**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**98200**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**216**	J	ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**7010**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**345**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**16200**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**1120**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**37.9**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M16H **Date / Time Sampled:** 09/29/16 09:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CD A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**5650**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**127000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**11200**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**11300**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**1200**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**17100**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**1100**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**146**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**0.617**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M17 **Date / Time Sampled:** 09/29/16 09:05 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CG A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**6640**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**130000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**10800**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**11100**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**1170**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**17300**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**1120**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**143**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**0.641**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M17A **Date / Time Sampled:** 09/29/16 15:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CJ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**4230**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**123000**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**8930**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**9240**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**919**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**18400**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**1060**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**107**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Copper	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Lead**	**0.613**	J	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Nickel	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M18 **Date / Time Sampled:** 09/29/16 15:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CM A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**37800**		ug/L	20.0	1	10/31/2016	SV	1610177
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Calcium**	**80100**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Iron**	**52500**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Magnesium**	**19400**		ug/L	100	1	10/31/2016	SV	1610177
200.7	**Manganese**	**1400**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Silica (SiO2)**	**31700**		ug/L	250	1	10/31/2016	SV	1610177
200.7	**Strontium**	**684**		ug/L	2.00	1	10/31/2016	SV	1610177
200.7	**Zinc**	**246**		ug/L	10.0	1	10/31/2016	SV	1610177
200.8	Antimony	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	**Cadmium**	**4.31**		ug/L	0.500	5	10/31/2016	SV	1610177
200.8	Chromium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	**Copper**	**22.2**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Lead	< 1.00	U	ug/L	0.500	5	10/31/2016	SV	1610177
200.8	**Nickel**	**15.7**		ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Selenium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177
200.8	Silver	< 5.00	U	ug/L	2.50	5	10/31/2016	SV	1610177
200.8	Thallium	< 10.0	U	ug/L	5.00	5	10/31/2016	SV	1610177

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M19 **Date / Time Sampled:** 09/29/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CP A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**11500**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**117000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**18600**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**11500**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**1060**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**21800**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**1030**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**140**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**1.01**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**5.11**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**0.653**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**3.52**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M20 **Date / Time Sampled:** 09/29/16 15:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CS A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**10600**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**112000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**17200**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**10900**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**990**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**21400**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**998**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**129**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**0.955**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**5.25**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**0.713**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**3.27**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Thallium**	**8.16**	J	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M20 **Date / Time Sampled:** 09/29/16 15:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-CV A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**11700**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**113000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**35700**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**11000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**1270**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**24600**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**990**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**144**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**1.09**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**7.57**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**14.4**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**3.99**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Thallium**	**8.82**	J	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M22 **Date / Time Sampled:** 09/28/16 14:05 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CY A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**10200**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**109000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**15100**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**10500**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**961**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**21200**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**968**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**152**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**1.10**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**5.71**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**0.680**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**2.92**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M23 **Date / Time Sampled:** 09/27/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DB A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2070**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**24200**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**162**	J	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**4070**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**200**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**7730**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**149**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**32.5**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**4.96**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M24A **Date / Time Sampled:** 09/28/16 11:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DE A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**957**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	**Beryllium**	**3.01**	J	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**90300**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**74900**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**6730**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**6770**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**22000**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**603**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**13500**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	**Antimony**	**3.05**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Arsenic**	**12.8**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**67.8**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**1070**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**977**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**10.5**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M24B **Date / Time Sampled:** 09/28/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DH A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**210**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**90300**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**16100**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**6570**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**5290**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**13400**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**588**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**11200**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**49.3**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**233**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**201**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**8.79**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M24C **Date / Time Sampled:** 09/28/16 11:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DJ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**31.2**	J	ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**138000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**112**	J	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**7280**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**2100**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**13400**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**816**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**540**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**0.663**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M24CROM **Date / Time Sampled:** 09/28/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DM A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**33.4**	J	ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**18300**		ug/L	100	1	11/01/2016	SV	1610178
200.7	Iron	< 250	U	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**1440**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**2.58**	J	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**7960**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**101**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	Zinc	< 20.0	U	ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M24D **Date / Time Sampled:** 09/27/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DP A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**200**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**90500**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**11500**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**6580**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**4780**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**12400**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**588**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**10700**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**42.4**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**189**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**177**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**8.83**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M25 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DS A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1840**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**25900**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**159**	J	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**3990**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**207**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**7800**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**167**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**104**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**0.540**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**4.72**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M26 **Date / Time Sampled:** 09/28/16 09:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DV A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**394**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**24800**		ug/L	100	1	11/01/2016	SV	1610178
200.7	Iron	< 250	U	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**2150**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**172**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**4300**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**164**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**31.3**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M26B **Date / Time Sampled:** 09/28/16 09:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DY A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**909**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**26100**		ug/L	100	1	11/01/2016	SV	1610178
200.7	Iron	< 250	U	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**2930**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**144**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**6190**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**174**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**45.3**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M26D **Date / Time Sampled:** 09/28/16 08:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EB A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**559**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**34400**		ug/L	100	1	11/01/2016	SV	1610178
200.7	Iron	< 250	U	ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**3050**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**91.7**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**7020**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**254**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**30.4**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M27 **Date / Time Sampled:** 09/27/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EE A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**3880**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**66400**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**4700**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**5430**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**488**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**14000**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**781**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**210**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**0.823**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**15.3**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**7.18**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M27 **Date / Time Sampled:** 09/27/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EH A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**15100**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**67600**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**72000**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**8930**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**2060**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**68800**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**836**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**315**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Arsenic**	**6.06**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**0.795**	J	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**29.5**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**114**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	**Nickel**	**16.5**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M27A **Date / Time Sampled:** 09/28/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EK A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**4240**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**69700**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**5500**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**5680**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**486**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**13200**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**820**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**204**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Cadmium**	**1.01**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**14.0**		ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**6.03**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M27A **Date / Time Sampled:** 09/28/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EN A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**973**		ug/L	20.0	1	11/01/2016	SV	1610178
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Calcium**	**24900**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Iron**	**7760**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Magnesium**	**2770**		ug/L	100	1	11/01/2016	SV	1610178
200.7	**Manganese**	**175**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Silica (SiO2)**	**20800**		ug/L	250	1	11/01/2016	SV	1610178
200.7	**Strontium**	**177**		ug/L	2.00	1	11/01/2016	SV	1610178
200.7	**Zinc**	**25.1**		ug/L	10.0	1	11/01/2016	SV	1610178
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	**Copper**	**4.11**	J	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	**Lead**	**15.9**		ug/L	0.500	5	11/01/2016	SV	1610178
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610178
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610178

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M28 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EQ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**598**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**33500**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**448**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**3000**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**84.2**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**7430**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**255**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**23.4**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M28 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-ET A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**7950**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**94700**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**27700**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**7170**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**1900**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**60000**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**587**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**157**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Cadmium**	**1.16**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**7.18**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**9.67**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	**Nickel**	**9.74**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Thallium**	**10.4**		ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M29 **Date / Time Sampled:** 09/27/16 12:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EW A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**2440**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**45900**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**2740**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**3960**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**272**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**11700**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**452**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**135**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**7.85**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**6.29**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M30 **Date / Time Sampled:** 09/27/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EZ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**68.3**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**27300**		ug/L	100	1	11/01/2016	SV	1610184
200.7	Iron	< 250	U	ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**2400**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**9.64**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**6910**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**128**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	Zinc	< 20.0	U	ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Copper	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Lead	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M30 **Date / Time Sampled:** 09/27/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-FC A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**641**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**27700**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**593**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**2560**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**125**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**8630**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**131**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**27.9**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**2.65**	J	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**1.43**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M32 **Date / Time Sampled:** 09/27/16 12:20 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FF A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1690**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**43800**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**2160**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**3730**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**212**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**10200**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**409**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**98.1**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**5.49**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**2.05**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M33 **Date / Time Sampled:** 09/27/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FI A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1630**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**44000**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**2060**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**3920**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**232**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**10000**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**416**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**106**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**5.72**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**2.11**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M34 **Date / Time Sampled:** 09/27/16 09:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FL A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1630**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**44700**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**2040**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**3900**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**235**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**10100**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**413**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**109**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**6.34**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**2.17**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M34 **Date / Time Sampled:** 09/27/16 09:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-FO A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1460**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**43900**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**3950**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**4070**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**846**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**10500**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**407**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**64.3**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Arsenic**	**3.91**	J	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**24.5**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**66.3**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods

Station ID: M38 **Date / Time Sampled:** 09/27/16 09:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FR A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
200.7	**Aluminum**	**1630**		ug/L	20.0	1	11/01/2016	SV	1610184
200.7	Beryllium	< 5.00	U	ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Calcium**	**45000**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Iron**	**2010**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Magnesium**	**3910**		ug/L	100	1	11/01/2016	SV	1610184
200.7	**Manganese**	**236**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Silica (SiO2)**	**10100**		ug/L	250	1	11/01/2016	SV	1610184
200.7	**Strontium**	**416**		ug/L	2.00	1	11/01/2016	SV	1610184
200.7	**Zinc**	**108**		ug/L	10.0	1	11/01/2016	SV	1610184
200.8	Antimony	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Arsenic	< 10.0	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Cadmium	< 1.00	U	ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Chromium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	**Copper**	**6.48**		ug/L	2.50	5	11/01/2016	SV	1610184
200.8	**Lead**	**2.18**		ug/L	0.500	5	11/01/2016	SV	1610184
200.8	Nickel	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Selenium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184
200.8	Silver	< 5.00	U	ug/L	2.50	5	11/01/2016	SV	1610184
200.8	Thallium	< 10.0	U	ug/L	5.00	5	11/01/2016	SV	1610184

"J" Qualifier indicates an estimated value

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC39 **Date / Time Sampled:** 09/27/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-05 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.8**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**542**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC39B **Date / Time Sampled:** 09/28/16 13:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-08 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.8**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**554**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC41 **Date / Time Sampled:** 09/27/16 16:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-11 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.8**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**554**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC42 **Date / Time Sampled:** 09/27/16 14:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-14 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.6**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**540**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	**Total Alkalinity**	**74.6**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC42F **Date / Time Sampled:** 09/27/16 15:10 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-17 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**51.5**		mg/L	1.0	1	10/14/2016	NP	1610085
EPA 310.1	**Total Alkalinity**	**37.9**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC43E **Date / Time Sampled:** 09/27/16 13:20 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-22 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.7**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**535**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC46B **Date / Time Sampled:** 09/27/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-25 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.6**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**543**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC47C **Date / Time Sampled:** 09/27/16 11:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-28 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.7**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**538**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: CC48 **Date / Time Sampled:** 09/27/16 09:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-31 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.7**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**536**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-12 **Date / Time Sampled:** 09/27/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-34 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.9**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**539**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-13 **Date / Time Sampled:** 09/27/16 16:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-37 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**0.9**		mg/L	0.2	2	10/14/2016	NP	1610085
EPA 300.0	**Nitrate/Nitrite as N**	**0.2**	J	mg/L	0.2	2	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**181**		mg/L	2.0	2	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-14 **Date / Time Sampled:** 09/28/16 13:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-40 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.7**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**560**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-15 **Date / Time Sampled:** 09/28/16 17:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-43 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.2**		mg/L	0.2	2	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**377**		mg/L	2.0	2	10/14/2016	NP	1610085
EPA 310.1	**Total Alkalinity**	**9.00**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-16 **Date / Time Sampled:** 09/29/16 14:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-46 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**0.3**		mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**144**		mg/L	1.0	1	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-17 **Date / Time Sampled:** 09/29/16 16:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-49 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**129**		mg/L	1.0	1	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-18 **Date / Time Sampled:** 09/29/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-52 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**2.4**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**552**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-19 **Date / Time Sampled:** 09/30/16 09:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-55 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.7**	J	mg/L	0.4	1	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**128**		mg/L	1.0	1	10/14/2016	NP	1610085
EPA 310.1	**Total Alkalinity**	**11.6**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-20 **Date / Time Sampled:** 09/30/16 16:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-58 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.2**		mg/L	0.2	2	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**238**		mg/L	2.0	2	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-21 **Date / Time Sampled:** 09/28/16 15:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-61 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.2**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**398**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-22 **Date / Time Sampled:** 09/29/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-64 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610085
EPA 300.0	**Fluoride**	**1.4**		mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610085
EPA 300.0	**Sulfate as SO4**	**425**		mg/L	4.0	4	10/14/2016	NP	1610085
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: Dup-23 **Date / Time Sampled:** 09/30/16 10:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-67 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/14/2016	NP	1610088
EPA 300.0	**Fluoride**	**1.0**		mg/L	0.4	4	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**410**		mg/L	4.0	4	10/14/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: FB-07 **Date / Time Sampled:** 09/30/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Water **Lab Number:** C161005-70 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Sulfate as SO4	< 2.0	U	mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**6.88**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: FB-16 **Date / Time Sampled:** 09/28/16 18:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Water **Lab Number:** C161005-73 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Sulfate as SO4	< 2.0	U	mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M07 **Date / Time Sampled:** 09/30/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-76 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.2**		mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**71.2**		mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**14.5**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M08 **Date / Time Sampled:** 09/30/16 15:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-79 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**43.3**		mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**17.8**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M10 **Date / Time Sampled:** 09/30/16 13:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-82 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.7**	J	mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**140**		mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**18.9**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M10A **Date / Time Sampled:** 09/30/16 13:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-85 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.6**		mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**77.2**		mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**14.3**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M10B **Date / Time Sampled:** 09/30/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-88 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**120**		mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**21.2**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M11 **Date / Time Sampled:** 09/30/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-91 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.0**		mg/L	0.4	1	10/14/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.1**	J	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/14/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**114**		mg/L	1.0	1	10/14/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**16.7**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M12 **Date / Time Sampled:** 09/29/16 16:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-94 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.6**		mg/L	0.2	2	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**231**		mg/L	2.0	2	10/15/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M12A **Date / Time Sampled:** 09/30/16 09:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-97 A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.8**	J	mg/L	0.8	2	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.6**		mg/L	0.2	2	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**205**		mg/L	2.0	2	10/15/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M12B **Date / Time Sampled:** 09/30/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AA A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.9**	J	mg/L	0.8	2	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.6**		mg/L	0.2	2	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**197**		mg/L	2.0	2	10/15/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M12C **Date / Time Sampled:** 09/30/16 10:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AD A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.9**		mg/L	0.4	4	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**402**		mg/L	4.0	4	10/15/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M12D **Date / Time Sampled:** 09/30/16 10:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AG A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.9**		mg/L	0.4	4	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**380**		mg/L	4.0	4	10/15/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M13A **Date / Time Sampled:** 09/30/16 11:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AJ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.1**		mg/L	0.4	1	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**121**		mg/L	1.0	1	10/15/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**16.8**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M13B **Date / Time Sampled:** 09/29/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AM A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.0**		mg/L	0.4	1	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**125**		mg/L	1.0	1	10/15/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**16.2**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M13D **Date / Time Sampled:** 09/29/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AP A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.1**		mg/L	0.4	1	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**130**		mg/L	1.0	1	10/15/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**13.9**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M14 **Date / Time Sampled:** 09/28/16 16:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AS A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.6**	J	mg/L	0.4	4	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**380**		mg/L	4.0	4	10/15/2016	NP	1610088
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M14A **Date / Time Sampled:** 09/28/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AV A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.1**		mg/L	0.4	1	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**125**		mg/L	1.0	1	10/15/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**14.2**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M14B **Date / Time Sampled:** 09/28/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-AY A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.1**		mg/L	0.4	1	10/15/2016	NP	1610088
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/15/2016	NP	1610088
EPA 300.0	**Sulfate as SO4**	**132**		mg/L	1.0	1	10/15/2016	NP	1610088
EPA 310.1	**Total Alkalinity**	**8.56**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M14B **Date / Time Sampled:** 09/28/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-BB A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.0**		mg/L	0.4	1	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**134**		mg/L	1.0	1	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**6.35**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610060

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M15 **Date / Time Sampled:** 09/28/16 17:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BE A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	**Nitrate/Nitrite as N**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**43.4**		mg/L	1.0	1	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**12.0**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16 **Date / Time Sampled:** 09/29/16 11:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BH A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 8.0	U	mg/L	4.0	10	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**6.1**		mg/L	1.0	10	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 2.0	U	mg/L	1.0	10	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**1440**		mg/L	10.0	10	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**7.13**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16A **Date / Time Sampled:** 09/29/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BK A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 8.0	U	mg/L	4.0	10	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**6.0**		mg/L	1.0	10	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 2.0	U	mg/L	1.0	10	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**1440**		mg/L	10.0	10	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16B **Date / Time Sampled:** 09/29/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BN A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.4**	J	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**976**		mg/L	4.0	4	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**18.5**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16C **Date / Time Sampled:** 09/29/16 11:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BQ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.9**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**495**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**62.2**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16D **Date / Time Sampled:** 09/29/16 12:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BT A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.1**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**479**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**44.8**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16E **Date / Time Sampled:** 09/29/16 10:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BW A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.8**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**301**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**6.84**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16F **Date / Time Sampled:** 09/29/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-BZ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**83.3**		mg/L	1.0	1	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**8.04**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16G **Date / Time Sampled:** 09/29/16 12:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CC A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.8**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**284**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**5.45**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M16H **Date / Time Sampled:** 09/29/16 09:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CF A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.1**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**400**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M17 **Date / Time Sampled:** 09/29/16 09:05 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CI A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.2**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**412**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M17A **Date / Time Sampled:** 09/29/16 15:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CL A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.0**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**369**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**6.61**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M18 **Date / Time Sampled:** 09/29/16 15:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CO A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**2.1**		mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**624**		mg/L	4.0	4	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M19 **Date / Time Sampled:** 09/29/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CR A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.2**		mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**418**		mg/L	4.0	4	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M20 **Date / Time Sampled:** 09/29/16 15:25 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-CU A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.1**		mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**397**		mg/L	4.0	4	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M20 **Date / Time Sampled:** 09/29/16 15:40 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-CX A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.1**		mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**402**		mg/L	4.0	4	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M22 **Date / Time Sampled:** 09/28/16 14:05 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DA A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**1.1**		mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**386**		mg/L	4.0	4	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M23 **Date / Time Sampled:** 09/27/16 18:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DD A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	**Nitrate/Nitrite as N**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**79.9**		mg/L	1.0	1	10/17/2016	NP	1610089
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M24A **Date / Time Sampled:** 09/28/16 11:50 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DG A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610089
EPA 300.0	**Fluoride**	**0.9**		mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610089
EPA 300.0	**Sulfate as SO4**	**259**		mg/L	2.0	2	10/17/2016	NP	1610089
EPA 310.1	**Total Alkalinity**	**32.6**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M24C **Date / Time Sampled:** 09/28/16 11:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DL A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 3.2	U	mg/L	1.6	4	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.7**	J	mg/L	0.4	4	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**275**		mg/L	4.0	4	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**104**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M24CROM **Date / Time Sampled:** 09/28/16 12:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DO A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Nitrate/Nitrite as N**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**37.9**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**15.5**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M24D **Date / Time Sampled:** 09/27/16 17:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DR A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.8**		mg/L	0.2	2	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**257**		mg/L	2.0	2	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**29.3**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M25 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DU A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Nitrate/Nitrite as N**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**83.1**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M26 **Date / Time Sampled:** 09/28/16 09:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-DX A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**51.8**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**21.7**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M26B **Date / Time Sampled:** 09/28/16 09:35 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EA A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Nitrate/Nitrite as N**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**60.6**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**18.7**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M26D **Date / Time Sampled:** 09/28/16 08:45 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-ED A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 0.8	U	mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Nitrate/Nitrite as N**	**0.1**	J	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**73.7**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**28.5**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M27 **Date / Time Sampled:** 09/27/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EG A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.9**	J	mg/L	0.8	2	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.5**		mg/L	0.2	2	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**214**		mg/L	2.0	2	10/17/2016	NP	1610090
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M27 **Date / Time Sampled:** 09/27/16 15:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EJ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**1.7**	J	mg/L	1.6	4	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**1.4**		mg/L	0.4	4	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.8	U	mg/L	0.4	4	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**409**		mg/L	4.0	4	10/17/2016	NP	1610090
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M27A **Date / Time Sampled:** 09/28/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EM A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.8**	J	mg/L	0.8	2	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.5**		mg/L	0.2	2	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**224**		mg/L	2.0	2	10/17/2016	NP	1610090
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M27A **Date / Time Sampled:** 09/28/16 14:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EP A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**23.7**		mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	Fluoride	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**60.2**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M28 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-ES A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/17/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/17/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**75.0**		mg/L	1.0	1	10/17/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**25.3**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M28 **Date / Time Sampled:** 09/27/16 17:00 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-EV A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	Chloride	< 1.6	U	mg/L	0.8	2	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.3**	J	mg/L	0.2	2	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.4	U	mg/L	0.2	2	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**184**		mg/L	2.0	2	10/18/2016	NP	1610090
EPA 310.1	Total Alkalinity	< 10.0		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M29 **Date / Time Sampled:** 09/27/16 12:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-EY A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.8**		mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**131**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**10.7**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M30 **Date / Time Sampled:** 09/27/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FB A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**38.8**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**40.9**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M30 **Date / Time Sampled:** 09/27/16 14:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-FE A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.4**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**38.9**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**39.2**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M32 **Date / Time Sampled:** 09/27/16 12:20 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FH A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.6**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**122**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**11.5**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M33 **Date / Time Sampled:** 09/27/16 10:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FK A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.6**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.2**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**123**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**12.7**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M34 **Date / Time Sampled:** 09/27/16 09:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FN A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.6**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.3**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**122**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**12.7**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M34 **Date / Time Sampled:** 09/27/16 09:15 **Workorder:** C161005
EPA Tag No.: **Matrix:** Pore Water **Lab Number:** C161005-FQ A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.7**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.1**	J	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**124**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**8.54**	J	mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods

Station ID: M38 **Date / Time Sampled:** 09/27/16 09:30 **Workorder:** C161005
EPA Tag No.: **Matrix:** Surface Water **Lab Number:** C161005-FT A

Method	Parameter	Results	Qualifier	Units	MDL	Dilution Factor	Analyzed	By	Batch
EPA 300.0	**Chloride**	**0.6**	J	mg/L	0.4	1	10/18/2016	NP	1610090
EPA 300.0	**Fluoride**	**0.3**		mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	Nitrate/Nitrite as N	< 0.2	U	mg/L	0.1	1	10/18/2016	NP	1610090
EPA 300.0	**Sulfate as SO4**	**123**		mg/L	1.0	1	10/18/2016	NP	1610090
EPA 310.1	**Total Alkalinity**	**12.6**		mg CaCO3 / L	5.00	1	10/07/2016	LNC	1610061

"J" Qualifier indicates an estimated value

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
ICPMS-PE DRC-II									
Batch 1610186 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610186-BLK1)		Dilution Factor: 1				Prepared: 10/25/16 Analyzed: 10/26/16			
Chromium	< 1.00	2.00	ug/L						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 1.00	2.00	"						
Silver	< 0.500	1.00	"						
Cadmium	< 0.100	0.200	"						
Antimony	< 0.500	1.00	"						
Thallium	< 1.00	2.00	"						
Lead	< 0.100	0.200	"						
Method Blank Spike (1610186-BS1)		Dilution Factor: 1				Prepared: 10/25/16 Analyzed: 10/26/16			
Chromium	92.5	2.00	ug/L	100		93	85-115		
Nickel	93.8	1.00	"	100		94	85-115		
Copper	93.6	1.00	"	100		94	85-115		
Arsenic	91.2	2.00	"	100		91	85-115		
Selenium	523	2.00	"	500		105	85-115		
Silver	92.5	1.00	"	100		93	85-115		
Cadmium	96.0	0.200	"	100		96	85-115		
Antimony	92.7	1.00	"	100		93	85-115		
Thallium	90.9	2.00	"	100		91	85-115		
Lead	91.5	0.200	"	100		91	85-115		
Duplicate (1610186-DUP1)		Dilution Factor: 5	**Source: C161005-02**			Prepared: 10/25/16 Analyzed: 10/26/16			
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	6.91	5.00	"		6.92			0.2	20
Copper	18.1	5.00	"		18.1			0.08	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	50.7	1.00	"		49.9			2	20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	464	1.00	"		456			2	20

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610186 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Matrix Spike (1610186-MS1)		Dilution Factor: 5		**Source: C161005-02**		Prepared: 10/25/16 Analyzed: 10/26/16			
Chromium	88.2	10.0	ug/L	100	< 5.00	88	70-130		
Nickel	101	5.00	"	100	6.92	94	70-130		
Copper	113	5.00	"	100	18.1	95	70-130		
Arsenic	95.3	10.0	"	100	< 2.50	95	70-130		
Selenium	530	10.0	"	500	< 5.00	106	70-130		
Silver	97.4	5.00	"	100	< 2.50	97	70-130		
Cadmium	147	1.00	"	100	49.9	97	70-130		
Antimony	88.2	5.00	"	100	< 2.50	88	70-130		
Thallium	92.7	10.0	"	100	< 5.00	93	70-130		
Lead	551	1.00	"	100	456	95	70-130		
Matrix Spike (1610186-MS2)		Dilution Factor: 5		**Source: C161005-04**		Prepared: 10/25/16 Analyzed: 10/26/16			
Chromium	90.8	10.0	ug/L	100	< 5.00	91	70-130		
Nickel	107	5.00	"	100	10.2	97	70-130		
Copper	196	5.00	"	100	99.7	96	70-130		
Arsenic	90.6	10.0	"	100	2.60	88	70-130		
Selenium	516	10.0	"	500	< 5.00	103	70-130		
Silver	98.7	5.00	"	100	< 2.50	99	70-130		
Cadmium	106	1.00	"	100	5.78	100	70-130		
Antimony	88.7	5.00	"	100	< 2.50	89	70-130		
Thallium	95.8	10.0	"	100	< 5.00	96	70-130		
Lead	117	1.00	"	100	20.5	96	70-130		
Batch 1610192 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610192-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/26/16			
Chromium	< 1.00	2.00	ug/L						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 1.00	2.00	"						
Silver	< 0.500	1.00	"						
Cadmium	< 0.100	0.200	"						
Antimony	< 0.500	1.00	"						
Thallium	< 1.00	2.00	"						
Lead	< 0.100	0.200	"						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610192 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Method Blank Spike (1610192-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/26/16			
Chromium	93.8	2.00	ug/L	100		94	85-115		
Nickel	95.0	1.00	"	100		95	85-115		
Copper	96.8	1.00	"	100		97	85-115		
Arsenic	90.1	2.00	"	100		90	85-115		
Selenium	533	2.00	"	500		107	85-115		
Silver	92.0	1.00	"	100		92	85-115		
Cadmium	96.3	0.200	"	100		96	85-115		
Antimony	92.2	1.00	"	100		92	85-115		
Thallium	97.4	2.00	"	100		97	85-115		
Lead	98.4	0.200	"	100		98	85-115		
Duplicate (1610192-DUP1)		Dilution Factor: 5	**Source: C161005-60**			Prepared & Analyzed: 10/26/16			
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	2.57	5.00	"		< 2.50				20
Copper	7.76	5.00	"		5.26			38	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	1.18	1.00	"		0.975			19	20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	< 0.500	1.00	"		< 0.500				20
Matrix Spike (1610192-MS1)		Dilution Factor: 5	**Source: C161005-60**			Prepared & Analyzed: 10/26/16			
Chromium	87.9	10.0	ug/L	100	< 5.00	88	70-130		
Nickel	94.8	5.00	"	100	< 2.50	95	70-130		
Copper	99.7	5.00	"	100	5.26	94	70-130		
Arsenic	92.6	10.0	"	100	< 2.50	93	70-130		
Selenium	536	10.0	"	500	< 5.00	107	70-130		
Silver	92.0	5.00	"	100	< 2.50	92	70-130		
Cadmium	97.5	1.00	"	100	0.975	97	70-130		
Antimony	87.6	5.00	"	100	< 2.50	88	70-130		
Thallium	92.6	10.0	"	100	< 5.00	93	70-130		
Lead	94.8	1.00	"	100	< 0.500	95	70-130		

Project Name: Bonita Peak_Water 3_OCT_2016_A119 **Certificate of Analysis**

TDF #: A-119

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610192 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Matrix Spike (1610192-MS2)		Dilution Factor: 5		**Source: C161005-63**		Prepared & Analyzed: 10/26/16			
Chromium	88.8	10.0	ug/L	100	< 5.00	89	70-130		
Nickel	96.6	5.00	"	100	2.85	94	70-130		
Copper	100	5.00	"	100	6.70	93	70-130		
Arsenic	91.0	10.0	"	100	< 2.50	91	70-130		
Selenium	526	10.0	"	500	< 5.00	105	70-130		
Silver	94.0	5.00	"	100	< 2.50	94	70-130		
Cadmium	97.8	1.00	"	100	1.12	97	70-130		
Antimony	89.6	5.00	"	100	< 2.50	90	70-130		
Thallium	93.9	10.0	"	100	< 5.00	94	70-130		
Lead	94.0	1.00	"	100	< 0.500	94	70-130		
Batch 1610197 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610197-BLK1)		Dilution Factor: 1				Prepared: 10/26/16 Analyzed: 10/27/16			
Chromium	< 1.00	2.00	ug/L						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 1.00	2.00	"						
Silver	< 0.500	1.00	"						
Cadmium	< 0.100	0.200	"						
Antimony	< 0.500	1.00	"						
Thallium	< 1.00	2.00	"						
Lead	< 0.100	0.200	"						
Method Blank Spike (1610197-BS1)		Dilution Factor: 1				Prepared: 10/26/16 Analyzed: 10/27/16			
Chromium	90.7	2.00	ug/L	100		91	85-115		
Nickel	89.4	1.00	"	100		89	85-115		
Copper	89.8	1.00	"	100		90	85-115		
Arsenic	92.5	2.00	"	100		93	85-115		
Selenium	525	2.00	"	500		105	85-115		
Silver	91.3	1.00	"	100		91	85-115		
Cadmium	97.0	0.200	"	100		97	85-115		
Antimony	95.2	1.00	"	100		95	85-115		
Thallium	88.6	2.00	"	100		89	85-115		
Lead	89.0	0.200	"	100		89	85-115		

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TDF #: **A-119**

Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610197 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Duplicate (1610197-DUP1)		Dilution Factor: 1	**Source: C161005-AU**			Prepared: 10/26/16 Analyzed: 10/27/16			
Chromium	< 1.00	2.00	ug/L		< 1.00				20
Nickel	< 0.500	1.00	"		< 0.500				20
Copper	3.41	1.00	"		3.47			2	20
Arsenic	< 0.500	2.00	"		< 0.500				20
Selenium	< 1.00	2.00	"		< 1.00				20
Silver	< 0.500	1.00	"		< 0.500				20
Cadmium	0.860	0.200	"		0.878			2	20
Antimony	< 0.500	1.00	"		< 0.500				20
Thallium	< 1.00	2.00	"		< 1.00				20
Lead	0.859	0.200	"		0.860			0.1	20
Matrix Spike (1610197-MS1)		Dilution Factor: 1	**Source: C161005-AU**			Prepared: 10/26/16 Analyzed: 10/27/16			
Chromium	87.0	2.00	ug/L	100	< 1.00	87	70-130		
Nickel	84.7	1.00	"	100	< 0.500	85	70-130		
Copper	88.9	1.00	"	100	3.47	85	70-130		
Arsenic	99.7	2.00	"	100	< 0.500	100	70-130		
Selenium	571	2.00	"	500	< 1.00	114	70-130		
Silver	92.4	1.00	"	100	< 0.500	92	70-130		
Cadmium	102	0.200	"	100	0.878	101	70-130		
Antimony	95.2	1.00	"	100	< 0.500	95	70-130		
Thallium	89.0	2.00	"	100	< 1.00	89	70-130		
Lead	88.7	0.200	"	100	0.860	88	70-130		
Matrix Spike (1610197-MS2)		Dilution Factor: 1	**Source: C161005-AX**			Prepared: 10/26/16 Analyzed: 10/27/16			
Chromium	87.4	2.00	ug/L	100	< 1.00	87	70-130		
Nickel	85.6	1.00	"	100	< 0.500	86	70-130		
Copper	92.1	1.00	"	100	7.03	85	70-130		
Arsenic	95.6	2.00	"	100	< 0.500	96	70-130		
Selenium	563	2.00	"	500	< 1.00	113	70-130		
Silver	92.3	1.00	"	100	< 0.500	92	70-130		
Cadmium	101	0.200	"	100	0.891	100	70-130		
Antimony	95.6	1.00	"	100	< 0.500	96	70-130		
Thallium	87.4	2.00	"	100	< 1.00	87	70-130		
Lead	88.5	0.200	"	100	0.414	88	70-130		

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TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610199 - 1610192			*Water*						**ICPMS-PE DRC-II**
Serial Dilution (1610199-SRD1)		Dilution Factor: 2	**Source: C161005-02**			Prepared: 10/25/16 Analyzed: 10/26/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	< 12.5	25.0	"		6.92				10
Copper	17.7	25.0	"		18.1			2	10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	47.7	5.00	"		49.9			4	10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	453	5.00	"		456			0.7	10
Serial Dilution (1610199-SRD2)		Dilution Factor: 2	**Source: C161005-60**			Prepared & Analyzed: 10/26/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	26.9	25.0	"		< 2.50				10
Copper	< 12.5	25.0	"		5.26				10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	< 2.50	5.00	"		0.975				10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	< 2.50	5.00	"		< 0.50				10
Batch 1610201 - No Lab Prep Reqd			*Water*						**ICPMS-PE DRC-II**
Method Blank (1610201-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Chromium	< 1.00	2.00	ug/L						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 1.00	2.00	"						
Silver	< 0.500	1.00	"						
Cadmium	< 0.100	0.200	"						
Antimony	< 0.500	1.00	"						
Thallium	< 1.00	2.00	"						
Lead	< 0.100	0.200	"						

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Metals (Dissolved) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610201 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Method Blank Spike (1610201-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Chromium	90.1	2.00	ug/L	100		90	85-115		
Nickel	90.1	1.00	"	100		90	85-115		
Copper	90.2	1.00	"	100		90	85-115		
Arsenic	97.1	2.00	"	100		97	85-115		
Selenium	540	2.00	"	500		108	85-115		
Silver	89.7	1.00	"	100		90	85-115		
Cadmium	96.7	0.200	"	100		97	85-115		
Antimony	94.4	1.00	"	100		94	85-115		
Thallium	90.8	2.00	"	100		91	85-115		
Lead	90.5	0.200	"	100		91	85-115		
Duplicate (1610201-DUP1)		Dilution Factor: 1	**Source: C161005-DC**			Prepared & Analyzed: 10/27/16			
Chromium	< 1.00	2.00	ug/L		< 1.00				20
Nickel	5.02	1.00	"		4.97			1	20
Copper	1.36	1.00	"		1.33			3	20
Arsenic	< 0.500	2.00	"		< 0.500				20
Selenium	< 1.00	2.00	"		< 1.00				20
Silver	< 0.500	1.00	"		< 0.500				20
Cadmium	0.371	0.200	"		0.349			6	20
Antimony	< 0.500	1.00	"		< 0.500				20
Thallium	< 1.00	2.00	"		< 1.00				20
Lead	0.228	0.200	"		0.246			8	20
Matrix Spike (1610201-MS1)		Dilution Factor: 1	**Source: C161005-DC**			Prepared & Analyzed: 10/27/16			
Chromium	88.1	2.00	ug/L	100	< 1.00	88	70-130		
Nickel	91.6	1.00	"	100	4.97	87	70-130		
Copper	88.4	1.00	"	100	1.33	87	70-130		
Arsenic	97.2	2.00	"	100	< 0.500	97	70-130		
Selenium	579	2.00	"	500	< 1.00	116	70-130		
Silver	92.2	1.00	"	100	< 0.500	92	70-130		
Cadmium	102	0.200	"	100	0.349	101	70-130		
Antimony	96.1	1.00	"	100	< 0.500	96	70-130		
Thallium	91.0	2.00	"	100	< 1.00	91	70-130		
Lead	91.2	0.200	"	100	0.246	91	70-130		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610201 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Matrix Spike (1610201-MS2)		Dilution Factor: 1	**Source: C161005-DF**			Prepared & Analyzed: 10/27/16			
Chromium	86.6	2.00	ug/L	100	< 1.00	87	70-130		
Nickel	89.1	1.00	"	100	7.70	81	70-130		
Copper	86.0	1.00	"	100	3.15	83	70-130		
Arsenic	97.1	2.00	"	100	< 0.500	97	70-130		
Selenium	575	2.00	"	500	< 1.00	115	70-130		
Silver	89.9	1.00	"	100	< 0.500	90	70-130		
Cadmium	131	0.200	"	100	35.8	95	70-130		
Antimony	94.9	1.00	"	100	< 0.500	95	70-130		
Thallium	88.7	2.00	"	100	< 1.00	89	70-130		
Lead	89.5	0.200	"	100	0.147	89	70-130		
Batch 1610203 - No Lab Prep Reqd			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610203-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Chromium	< 1.00	2.00	ug/L						
Nickel	< 0.500	1.00	"						
Copper	< 0.500	1.00	"						
Arsenic	< 0.500	2.00	"						
Selenium	< 1.00	2.00	"						
Silver	< 0.500	1.00	"						
Cadmium	< 0.100	0.200	"						
Antimony	< 0.500	1.00	"						
Thallium	< 1.00	2.00	"						
Lead	< 0.100	0.200	"						
Method Blank Spike (1610203-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Chromium	90.2	2.00	ug/L	100		90	85-115		
Nickel	89.4	1.00	"	100		89	85-115		
Copper	90.9	1.00	"	100		91	85-115		
Arsenic	93.6	2.00	"	100		94	85-115		
Selenium	538	2.00	"	500		108	85-115		
Silver	89.8	1.00	"	100		90	85-115		
Cadmium	95.4	0.200	"	100		95	85-115		
Antimony	94.1	1.00	"	100		94	85-115		
Thallium	93.6	2.00	"	100		94	85-115		
Lead	94.4	0.200	"	100		94	85-115		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610203 - No Lab Prep Reqd			*Water*						**ICPMS-PE DRC-II**
Duplicate (1610203-DUP1)		Dilution Factor: 1	**Source: C161005-FJ**			Prepared & Analyzed: 10/27/16			
Chromium	< 1.00	2.00	ug/L		< 1.00				20
Nickel	0.824	1.00	"		0.817			0.8	20
Copper	1.63	1.00	"		1.69			3	20
Arsenic	< 0.500	2.00	"		< 0.500				20
Selenium	< 1.00	2.00	"		< 1.00				20
Silver	< 0.500	1.00	"		< 0.500				20
Cadmium	0.479	0.200	"		0.456			5	20
Antimony	< 0.500	1.00	"		< 0.500				20
Thallium	< 1.00	2.00	"		< 1.00				20
Lead	< 0.100	0.200	"		< 0.100				20
Matrix Spike (1610203-MS1)		Dilution Factor: 1	**Source: C161005-FJ**			Prepared & Analyzed: 10/27/16			
Chromium	87.0	2.00	ug/L	100	< 1.00	87	70-130		
Nickel	86.0	1.00	"	100	0.817	85	70-130		
Copper	87.6	1.00	"	100	1.69	86	70-130		
Arsenic	96.1	2.00	"	100	< 0.500	96	70-130		
Selenium	577	2.00	"	500	< 1.00	115	70-130		
Silver	88.5	1.00	"	100	< 0.500	89	70-130		
Cadmium	98.2	0.200	"	100	0.456	98	70-130		
Antimony	94.7	1.00	"	100	< 0.500	95	70-130		
Thallium	90.5	2.00	"	100	< 1.00	91	70-130		
Lead	91.4	0.200	"	100	< 0.100	91	70-130		
Batch 1610205 - 1610203			*Water*						**ICPMS-PE DRC-II**
Serial Dilution (1610205-SRD1)		Dilution Factor: 5	**Source: C161005-AU**			Prepared: 10/26/16 Analyzed: 10/27/16			
Chromium	< 5.00	10.0	ug/L		< 1.00				10
Nickel	< 2.50	5.00	"		< 0.50				10
Copper	3.26	5.00	"		3.47			6	10
Arsenic	< 2.50	10.0	"		< 0.50				10
Selenium	< 5.00	10.0	"		< 1.00				10
Silver	< 2.50	5.00	"		< 0.50				10
Cadmium	0.815	1.00	"		0.878			7	10
Antimony	< 2.50	5.00	"		< 0.50				10
Thallium	< 5.00	10.0	"		< 1.00				10
Lead	0.814	1.00	"		0.860			6	10

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610205 - 1610203			*Water*						**ICPMS-PE DRC-II**
Serial Dilution (1610205-SRD2)		Dilution Factor: 5	**Source: C161005-DC**			Prepared & Analyzed: 10/27/16			
Chromium	< 5.00	10.0	ug/L		< 1.00				10
Nickel	5.05	5.00	"		4.97			2	10
Copper	< 2.50	5.00	"		1.33				10
Arsenic	< 2.50	10.0	"		< 0.50				10
Selenium	< 5.00	10.0	"		< 1.00				10
Silver	< 2.50	5.00	"		< 0.50				10
Cadmium	< 0.500	1.00	"		0.349				10
Antimony	< 2.50	5.00	"		< 0.50				10
Thallium	< 5.00	10.0	"		< 1.00				10
Lead	< 0.500	1.00	"		0.246				10
Serial Dilution (1610205-SRD3)		Dilution Factor: 5	**Source: C161005-FJ**			Prepared & Analyzed: 10/27/16			
Chromium	< 5.00	10.0	ug/L		< 1.00				10
Nickel	< 2.50	5.00	"		0.817				10
Copper	2.66	5.00	"		1.69			45	10
Arsenic	< 2.50	10.0	"		< 0.50				10
Selenium	< 5.00	10.0	"		< 1.00				10
Silver	< 2.50	5.00	"		< 0.50				10
Cadmium	0.513	1.00	"		0.456			12	10
Antimony	< 2.50	5.00	"		< 0.50				10
Thallium	< 5.00	10.0	"		< 1.00				10
Lead	< 0.500	1.00	"		< 0.10				10

ICPOE - PE Optima

Batch 1610185 - No Lab Prep Reqd			*Water*						**ICPOE - PE Optima**
Method Blank (1610185-BLK1)		Dilution Factor: 1				Prepared: 10/25/16 Analyzed: 10/26/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Strontium	< 2.00	10.0	"						
Zinc	< 10.0	20.0	"						
Silica (SiO2)	< 250	1000	"						

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610185 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Method Blank Spike (1610185-BS1)		Dilution Factor: 1				Prepared: 10/25/16	Analyzed: 10/26/16		
Aluminum	9839	50.0	ug/L	10100		97	85-115		
Beryllium	101.8	5.00	"	100		102	85-115		
Calcium	9777	250	"	10100		97	85-115		
Iron	10000	250	"	10100		99	85-115		
Magnesium	9920	250	"	10100		98	85-115		
Manganese	96.77	5.00	"	100		97	85-115		
Strontium	515.4	10.0	"	500		103	85-115		
Zinc	99.51	20.0	"	100		100	85-115		
Silica (SiO2)	< 250	1000	"				85-115		
Duplicate (1610185-DUP1)		Dilution Factor: 1	**Source: C161005-02**			Prepared: 10/25/16	Analyzed: 10/26/16		
Aluminum	3784	50.0	ug/L		3784			0.007	20
Beryllium	4.688	5.00	"		4.680			0.2	20
Calcium	201500	250	"		202700			0.6	20
Iron	24560	250	"		24490			0.3	20
Magnesium	12240	250	"		12200			0.3	20
Manganese	25460	5.00	"		25560			0.4	20
Strontium	1755	10.0	"		1762			0.4	20
Zinc	31530	20.0	"		31580			0.2	20
Silica (SiO2)	31810	1000	"		32070			0.8	20
Matrix Spike (1610185-MS1)		Dilution Factor: 1	**Source: C161005-02**			Prepared: 10/25/16	Analyzed: 10/26/16		
Aluminum	13260	50.0	ug/L	10100	3784	94	70-130		
Beryllium	105.4	5.00	"	100	4.680	101	70-130		
Calcium	206600	250	"	10100	202700	38	70-130		
Iron	33330	250	"	10100	24490	88	70-130		
Magnesium	21580	250	"	10100	12200	93	70-130		
Manganese	25200	5.00	"	100	25560	NR	70-130		
Strontium	2224	10.0	"	500	1762	92	70-130		
Zinc	31040	20.0	"	100	31580	NR	70-130		
Silica (SiO2)	31990	1000	"		32070		70-130		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610185 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Matrix Spike (1610185-MS2)		Dilution Factor: 1	**Source: C161005-04**			Prepared: 10/25/16 Analyzed: 10/26/16			
Aluminum	15490	50.0	ug/L	10100	5929	95	70-130		
Beryllium	102.9	5.00	"	100	< 2.00	103	70-130		
Calcium	163000	250	"	10100	157500	54	70-130		
Iron	19620	250	"	10100	10010	95	70-130		
Magnesium	19080	250	"	10100	9563	94	70-130		
Manganese	4392	5.00	"	100	4403	NR	70-130		
Strontium	2194	10.0	"	500	1720	95	70-130		
Zinc	2376	20.0	"	100	2329	48	70-130		
Silica (SiO2)	29280	1000	"		29470		70-130		
Batch 1610191 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Method Blank (1610191-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/26/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Strontium	< 2.00	10.0	"						
Zinc	< 10.0	20.0	"						
Silica (SiO2)	< 250	1000	"						
Method Blank Spike (1610191-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/26/16			
Aluminum	9675	50.0	ug/L	10100		96	85-115		
Beryllium	104.2	5.00	"	100		104	85-115		
Calcium	10070	250	"	10100		100	85-115		
Iron	10220	250	"	10100		101	85-115		
Magnesium	9877	250	"	10100		98	85-115		
Manganese	96.96	5.00	"	100		97	85-115		
Strontium	517.6	10.0	"	500		104	85-115		
Zinc	105.5	20.0	"	100		105	85-115		
Silica (SiO2)	< 250	1000	"				85-115		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610191 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Duplicate (1610191-DUP1)		Dilution Factor: 1	**Source: C161005-60**			Prepared & Analyzed: 10/26/16			
Aluminum	7287	50.0	ug/L		7292			0.06	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	106600	250	"		105800			0.8	20
Iron	14430	250	"		14310			0.9	20
Magnesium	10380	250	"		10360			0.3	20
Manganese	972.0	5.00	"		977.6			0.6	20
Strontium	936.9	10.0	"		943.8			0.7	20
Zinc	140.1	20.0	"		143.3			2	20
Silica (SiO2)	20730	1000	"		20750			0.07	20
Matrix Spike (1610191-MS1)		Dilution Factor: 1	**Source: C161005-60**			Prepared & Analyzed: 10/26/16			
Aluminum	16660	50.0	ug/L	10100	7292	93	70-130		
Beryllium	103.6	5.00	"	100	< 2.00	104	70-130		
Calcium	113900	250	"	10100	105800	81	70-130		
Iron	24090	250	"	10100	14310	97	70-130		
Magnesium	19930	250	"	10100	10360	95	70-130		
Manganese	1044	5.00	"	100	977.6	66	70-130		
Strontium	1432	10.0	"	500	943.8	98	70-130		
Zinc	237.7	20.0	"	100	143.3	94	70-130		
Silica (SiO2)	20650	1000	"		20750		70-130		
Matrix Spike (1610191-MS2)		Dilution Factor: 1	**Source: C161005-63**			Prepared & Analyzed: 10/26/16			
Aluminum	17280	50.0	ug/L	10100	7681	95	70-130		
Beryllium	103.3	5.00	"	100	< 2.00	103	70-130		
Calcium	118900	250	"	10100	110400	84	70-130		
Iron	26570	250	"	10100	16470	100	70-130		
Magnesium	20790	250	"	10100	10890	98	70-130		
Manganese	1092	5.00	"	100	1035	57	70-130		
Strontium	1474	10.0	"	500	980.7	99	70-130		
Zinc	244.0	20.0	"	100	151.0	93	70-130		
Silica (SiO2)	20600	1000	"		20900		70-130		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610195 - 1610191			***Water***						**ICPOE - PE Optima**
Serial Dilution (1610195-SRD1)		Dilution Factor: 5	**Source: C161005-02**			Prepared: 10/25/16 Analyzed: 10/26/16			
Aluminum	3710	250	ug/L		3784			2	10
Beryllium	< 10.0	25.0	"		4.680				10
Calcium	198300	1250	"		202700			2	10
Iron	24660	1250	"		24490			0.7	10
Magnesium	12040	1250	"		12200			1	10
Manganese	27340	25.0	"		25560			7	10
Strontium	1746	50.0	"		1762			0.9	10
Zinc	32970	100	"		31580			4	10
Silica (SiO2)	30900	5000	"		32070			4	10
Serial Dilution (1610195-SRD2)		Dilution Factor: 5	**Source: C161005-60**			Prepared & Analyzed: 10/26/16			
Aluminum	6985	250	ug/L		7292			4	10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	102600	1250	"		105800			3	10
Iron	14280	1250	"		14310			0.2	10
Magnesium	10020	1250	"		10360			3	10
Manganese	948.7	25.0	"		977.6			3	10
Strontium	907.9	50.0	"		943.8			4	10
Zinc	140.6	100	"		143.3			2	10
Silica (SiO2)	19570	5000	"		20750			6	10
Batch 1610196 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Method Blank (1610196-BLK1)		Dilution Factor: 1				Prepared: 10/26/16 Analyzed: 10/27/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Strontium	< 2.00	10.0	"						
Zinc	< 10.0	20.0	"						
Silica (SiO2)	< 250	1000	"						

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610196 - No Lab Prep Reqd			*Water*						**ICPOE - PE Optima**
Method Blank Spike (1610196-BS1)		Dilution Factor: 1				Prepared: 10/26/16	Analyzed: 10/27/16		
Aluminum	9728	50.0	ug/L	10100		96	85-115		
Beryllium	101.4	5.00	"	100		101	85-115		
Calcium	9817	250	"	10100		97	85-115		
Iron	9831	250	"	10100		97	85-115		
Magnesium	9730	250	"	10100		96	85-115		
Manganese	95.53	5.00	"	100		96	85-115		
Strontium	512.2	10.0	"	500		102	85-115		
Zinc	98.46	20.0	"	100		98	85-115		
Silica (SiO2)	< 250	1000	"				85-115		
Duplicate (1610196-DUP1)		Dilution Factor: 1	**Source: C161005-AU**			Prepared: 10/26/16	Analyzed: 10/27/16		
Aluminum	77.56	50.0	ug/L		77.07			0.6	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	44180	250	"		44510			0.8	20
Iron	< 100	250	"		< 100				20
Magnesium	2667	250	"		2715			2	20
Manganese	183.0	5.00	"		183.6			0.3	20
Strontium	688.5	10.0	"		689.3			0.1	20
Zinc	212.5	20.0	"		212.3			0.08	20
Silica (SiO2)	7439	1000	"		7367			1	20
Matrix Spike (1610196-MS1)		Dilution Factor: 1	**Source: C161005-AU**			Prepared: 10/26/16	Analyzed: 10/27/16		
Aluminum	9702	50.0	ug/L	10100	77.07	95	70-130		
Beryllium	100.6	5.00	"	100	< 2.00	101	70-130		
Calcium	52800	250	"	10100	44510	82	70-130		
Iron	9770	250	"	10100	< 100	97	70-130		
Magnesium	12180	250	"	10100	2715	94	70-130		
Manganese	273.1	5.00	"	100	183.6	90	70-130		
Strontium	1171	10.0	"	500	689.3	96	70-130		
Zinc	303.9	20.0	"	100	212.3	92	70-130		
Silica (SiO2)	7408	1000	"		7367		70-130		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610196 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Matrix Spike (1610196-MS2)		Dilution Factor: 1		**Source: C161005-AX**		Prepared: 10/26/16 Analyzed: 10/27/16			
Aluminum	9682	50.0	ug/L	10100	46.97	95	70-130		
Beryllium	102.5	5.00	"	100	< 2.00	103	70-130		
Calcium	53990	250	"	10100	44200	97	70-130		
Iron	10090	250	"	10100	126.4	99	70-130		
Magnesium	12440	250	"	10100	2766	96	70-130		
Manganese	301.8	5.00	"	100	209.0	93	70-130		
Strontium	1151	10.0	"	500	677.5	95	70-130		
Zinc	317.1	20.0	"	100	220.4	97	70-130		
Silica (SiO2)	8081	1000	"		8065		70-130		
Batch 1610200 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Method Blank (1610200-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Strontium	< 2.00	10.0	"						
Zinc	< 10.0	20.0	"						
Silica (SiO2)	< 250	1000	"						
Method Blank Spike (1610200-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Aluminum	9645	50.0	ug/L	10100		95	85-115		
Beryllium	102.2	5.00	"	100		102	85-115		
Calcium	9734	250	"	10100		96	85-115		
Iron	9841	250	"	10100		97	85-115		
Magnesium	9728	250	"	10100		96	85-115		
Manganese	95.86	5.00	"	100		96	85-115		
Strontium	501.1	10.0	"	500		100	85-115		
Zinc	99.27	20.0	"	100		99	85-115		
Silica (SiO2)	< 250	1000	"				85-115		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610200 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Duplicate (1610200-DUP1)		Dilution Factor: 1	**Source: C161005-DC**			Prepared & Analyzed: 10/27/16			
Aluminum	544.7	50.0	ug/L		553.7			2	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	22810	250	"		22900			0.4	20
Iron	< 100	250	"		< 100				20
Magnesium	3853	250	"		3939			2	20
Manganese	200.9	5.00	"		199.7			0.6	20
Strontium	137.2	10.0	"		137.5			0.2	20
Zinc	39.68	20.0	"		39.97			0.7	20
Silica (SiO2)	7526	1000	"		7494			0.4	20
Matrix Spike (1610200-MS1)		Dilution Factor: 1	**Source: C161005-DC**			Prepared & Analyzed: 10/27/16			
Aluminum	10210	50.0	ug/L	10100	553.7	96	70-130		
Beryllium	101.6	5.00	"	100	< 2.00	102	70-130		
Calcium	31570	250	"	10100	22900	86	70-130		
Iron	9874	250	"	10100	< 100	98	70-130		
Magnesium	13520	250	"	10100	3939	95	70-130		
Manganese	289.5	5.00	"	100	199.7	90	70-130		
Strontium	638.3	10.0	"	500	137.5	100	70-130		
Zinc	135.8	20.0	"	100	39.97	96	70-130		
Silica (SiO2)	7593	1000	"		7494		70-130		
Matrix Spike (1610200-MS2)		Dilution Factor: 1	**Source: C161005-DF**			Prepared & Analyzed: 10/27/16			
Aluminum	9634	50.0	ug/L	10100	36.03	95	70-130		
Beryllium	100.5	5.00	"	100	< 2.00	100	70-130		
Calcium	93350	250	"	10100	84690	86	70-130		
Iron	9952	250	"	10100	194.9	97	70-130		
Magnesium	15880	250	"	10100	6474	93	70-130		
Manganese	4827	5.00	"	100	4866	NR	70-130		
Strontium	1031	10.0	"	500	549.5	96	70-130		
Zinc	8498	20.0	"	100	8752	NR	70-130		
Silica (SiO2)	10830	1000	"		10880		70-130		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610202 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Method Blank (1610202-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Strontium	< 2.00	10.0	"						
Zinc	< 10.0	20.0	"						
Silica (SiO2)	< 250	1000	"						
Method Blank Spike (1610202-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/27/16			
Aluminum	9667	50.0	ug/L	10100		96	85-115		
Beryllium	100.9	5.00	"	100		101	85-115		
Calcium	9737	250	"	10100		96	85-115		
Iron	9907	250	"	10100		98	85-115		
Magnesium	9768	250	"	10100		97	85-115		
Manganese	95.14	5.00	"	100		95	85-115		
Strontium	488.8	10.0	"	500		98	85-115		
Zinc	98.76	20.0	"	100		99	85-115		
Silica (SiO2)	< 250	1000	"				85-115		
Duplicate (1610202-DUP1)		Dilution Factor: 1	**Source: C161005-FJ**			Prepared & Analyzed: 10/27/16			
Aluminum	44.25	50.0	ug/L		35.86			21	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	41290	250	"		41580			0.7	20
Iron	1322	250	"		1330			0.6	20
Magnesium	3716	250	"		3724			0.2	20
Manganese	226.4	5.00	"		225.9			0.2	20
Strontium	370.0	10.0	"		367.8			0.6	20
Zinc	96.86	20.0	"		98.12			1	20
Silica (SiO2)	9403	1000	"		9355			0.5	20

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610202 - No Lab Prep Reqd			***Water***						**ICPOE - PE Optima**
Matrix Spike (1610202-MS1)		Dilution Factor: 1		**Source: C161005-FJ**		Prepared & Analyzed: 10/27/16			
Aluminum	9727	50.0	ug/L	10100	35.86	96	70-130		
Beryllium	101.4	5.00	"	100	< 2.00	101	70-130		
Calcium	49780	250	"	10100	41580	81	70-130		
Iron	11050	250	"	10100	1330	96	70-130		
Magnesium	13350	250	"	10100	3724	95	70-130		
Manganese	315.2	5.00	"	100	225.9	89	70-130		
Strontium	848.5	10.0	"	500	367.8	96	70-130		
Zinc	189.1	20.0	"	100	98.12	91	70-130		
Silica (SiO2)	9499	1000	"		9355		70-130		
Batch 1610204 - 1610202			***Water***						**ICPOE - PE Optima**
Serial Dilution (1610204-SRD1)		Dilution Factor: 5		**Source: C161005-AU**		Prepared: 10/26/16 Analyzed: 10/27/16			
Aluminum	< 100	250	ug/L		77.07				10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	43200	1250	"		44510			3	10
Iron	< 500	1250	"		< 100.00				10
Magnesium	2612	1250	"		2715			4	10
Manganese	180.8	25.0	"		183.6			2	10
Strontium	680.5	50.0	"		689.3			1	10
Zinc	202.3	100	"		212.3			5	10
Silica (SiO2)	7108	5000	"		7367			4	10
Serial Dilution (1610204-SRD2)		Dilution Factor: 5		**Source: C161005-DC**		Prepared & Analyzed: 10/27/16			
Aluminum	547.0	250	ug/L		553.7			1	10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	22250	1250	"		22900			3	10
Iron	< 500	1250	"		< 100.00				10
Magnesium	3915	1250	"		3939			0.6	10
Manganese	196.4	25.0	"		199.7			2	10
Strontium	136.4	50.0	"		137.5			0.8	10
Zinc	< 50.0	100	"		39.97				10
Silica (SiO2)	7372	5000	"		7494			2	10

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610204 - 1610202			***Water***						**ICPOE - PE Optima**
Serial Dilution (1610204-SRD3)		Dilution Factor: 5	**Source: C161005-FJ**		Prepared & Analyzed: 10/27/16				
Aluminum	< 100	250	ug/L		35.86				10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	40790	1250	"		41580			2	10
Iron	1288	1250	"		1330			3	10
Magnesium	3783	1250	"		3724			2	10
Manganese	223.1	25.0	"		225.9			1	10
Strontium	369.4	50.0	"		367.8			0.5	10
Zinc	96.01	100	"		98.12			2	10
Silica (SiO2)	9187	5000	"		9355			2	10

NOTE: %R = % Recovery, %R limits do not apply when sample levels exceed 4x the spike level.
RPD = Relative Percent Difference, %D = % Difference, DL = Detection Limit for QC sample .

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
ICPMS-PE DRC-II									
Batch 1610175 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610175-BLK2)		Dilution Factor: 5				Prepared: 10/24/16	Analyzed: 10/31/16		
Chromium	< 5.00	10.0	ug/L						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 5.00	10.0	"						
Silver	< 2.50	5.00	"						
Cadmium	< 0.500	1.00	"						
Antimony	< 2.50	5.00	"						
Thallium	< 5.00	10.0	"						
Lead	< 0.500	1.00	"						
Duplicate (1610175-DUP2)		Dilution Factor: 5	**Source: C161005-01**			Prepared: 10/24/16	Analyzed: 10/31/16		
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	9.071	5.00	"		11.66			25	20
Copper	18.26	5.00	"		18.14			0.7	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	48.96	1.00	"		48.87			0.2	20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	421.2	1.00	"		422.8			0.4	20
Matrix Spike (1610175-MS2)		Dilution Factor: 5	**Source: C161005-01**			Prepared: 10/24/16	Analyzed: 10/31/16		
Chromium	339.7	10.0	ug/L	400	< 5.00	85	70-130		
Nickel	444.8	5.00	"	500	11.66	87	70-130		
Copper	282.0	5.00	"	300	18.14	88	70-130		
Arsenic	772.0	10.0	"	800	< 2.50	96	70-130		
Selenium	2087	10.0	"	2000	< 5.00	104	70-130		
Silver	66.10	5.00	"	75.0	< 2.50	88	70-130		
Cadmium	239.3	1.00	"	200	48.87	95	70-130		
Antimony	765.1	5.00	"	800	< 2.50	96	70-130		
Thallium	1744	10.0	"	2000	< 5.00	87	70-130		
Lead	1287	1.00	"	1000	422.8	86	70-130		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610175 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Matrix Spike (1610175-MS4)		Dilution Factor: 5	**Source: C161005-03**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	346.9	10.0	ug/L	400	< 5.00	87	70-130		
Nickel	452.4	5.00	"	500	10.88	88	70-130		
Copper	375.8	5.00	"	300	107.9	89	70-130		
Arsenic	778.2	10.0	"	800	6.933	96	70-130		
Selenium	2120	10.0	"	2000	< 5.00	106	70-130		
Silver	67.33	5.00	"	75.0	< 2.50	90	70-130		
Cadmium	197.8	1.00	"	200	5.716	96	70-130		
Antimony	766.4	5.00	"	800	< 2.50	96	70-130		
Thallium	1760	10.0	"	2000	10.83	87	70-130		
Lead	922.4	1.00	"	1000	44.69	88	70-130		
Reference (1610175-SRM2)		Dilution Factor: 2				Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	920.0	40.0	ug/L	1000		92	85-115		
Nickel	955.8	20.0	"	1000		96	85-115		
Copper	964.9	20.0	"	1000		96	85-115		
Arsenic	2047	40.0	"	2000		102	85-115		
Selenium	1126	40.0	"	1000		113	85-115		
Silver	234.4	20.0	"	250		94	85-115		
Cadmium	997.4	4.00	"	1000		100	85-115		
Antimony	1967	20.0	"	2000		98	85-115		
Thallium	4431	40.0	"	5000		89	85-115		
Lead	1793	4.00	"	2000		90	85-115		
Batch 1610176 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610176-BLK2)		Dilution Factor: 5				Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 5.00	10.0	ug/L						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 5.00	10.0	"						
Silver	< 2.50	5.00	"						
Cadmium	< 0.500	1.00	"						
Antimony	< 2.50	5.00	"						
Thallium	< 5.00	10.0	"						
Lead	< 0.500	1.00	"						

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610176 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Duplicate (1610176-DUP2)		Dilution Factor: 5	**Source: C161005-56**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	4.601	5.00	"		4.515			2	20
Copper	129.7	5.00	"		129.5			0.2	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	12.20	1.00	"		12.31			0.9	20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	7.587	1.00	"		7.177			6	20
Matrix Spike (1610176-MS2)		Dilution Factor: 5	**Source: C161005-56**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	351.7	10.0	ug/L	400	< 5.00	88	70-130		
Nickel	455.4	5.00	"	500	4.515	90	70-130		
Copper	400.4	5.00	"	300	129.5	90	70-130		
Arsenic	782.3	10.0	"	800	< 2.50	98	70-130		
Selenium	2137	10.0	"	2000	< 5.00	107	70-130		
Silver	68.60	5.00	"	75.0	< 2.50	91	70-130		
Cadmium	206.8	1.00	"	200	12.31	97	70-130		
Antimony	773.1	5.00	"	800	< 2.50	97	70-130		
Thallium	1814	10.0	"	2000	< 5.00	91	70-130		
Lead	911.1	1.00	"	1000	7.177	90	70-130		
Matrix Spike (1610176-MS4)		Dilution Factor: 5	**Source: C161005-59**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	347.7	10.0	ug/L	400	< 5.00	87	70-130		
Nickel	446.2	5.00	"	500	3.436	89	70-130		
Copper	272.9	5.00	"	300	5.264	89	70-130		
Arsenic	787.5	10.0	"	800	< 2.50	98	70-130		
Selenium	2152	10.0	"	2000	< 5.00	108	70-130		
Silver	69.38	5.00	"	75.0	< 2.50	93	70-130		
Cadmium	197.4	1.00	"	200	0.9968	98	70-130		
Antimony	786.2	5.00	"	800	< 2.50	98	70-130		
Thallium	1814	10.0	"	2000	10.88	90	70-130		
Lead	908.0	1.00	"	1000	0.5188	91	70-130		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610176 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Reference (1610176-SRM2)		Dilution Factor: 2				Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	931.3	40.0	ug/L	1000		93	85-115		
Nickel	945.8	20.0	"	1000		95	85-115		
Copper	957.5	20.0	"	1000		96	85-115		
Arsenic	2046	40.0	"	2000		102	85-115		
Selenium	1140	40.0	"	1000		114	85-115		
Silver	235.2	20.0	"	250		94	85-115		
Cadmium	1000	4.00	"	1000		100	85-115		
Antimony	1979	20.0	"	2000		99	85-115		
Thallium	4632	40.0	"	5000		93	85-115		
Lead	1860	4.00	"	2000		93	85-115		
Batch 1610177 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610177-BLK2)		Dilution Factor: 5				Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 5.00	10.0	ug/L						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 5.00	10.0	"						
Silver	< 2.50	5.00	"						
Cadmium	< 0.500	1.00	"						
Antimony	< 2.50	5.00	"						
Thallium	< 5.00	10.0	"						
Lead	< 0.500	1.00	"						
Duplicate (1610177-DUP2)		Dilution Factor: 5	**Source: C161005-AK**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	< 2.50	5.00	"		< 2.50				20
Copper	8.193	5.00	"		8.052			2	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	0.6508	1.00	"		0.6622			2	20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	10.56	1.00	"		10.53			0.3	20

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610177 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Matrix Spike (1610177-MS2)		Dilution Factor: 5		**Source: C161005-AK**		Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	364.3	10.0	ug/L	400	< 5.00	91	70-130		
Nickel	463.3	5.00	"	500	< 2.50	93	70-130		
Copper	290.3	5.00	"	300	8.052	94	70-130		
Arsenic	815.5	10.0	"	800	< 2.50	102	70-130		
Selenium	2214	10.0	"	2000	< 5.00	111	70-130		
Silver	70.32	5.00	"	75.0	< 2.50	94	70-130		
Cadmium	198.6	1.00	"	200	0.6622	99	70-130		
Antimony	789.8	5.00	"	800	< 2.50	99	70-130		
Thallium	1903	10.0	"	2000	< 5.00	95	70-130		
Lead	953.2	1.00	"	1000	10.53	94	70-130		
Matrix Spike (1610177-MS4)		Dilution Factor: 5		**Source: C161005-AN**		Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	369.8	10.0	ug/L	400	< 5.00	92	70-130		
Nickel	465.8	5.00	"	500	< 2.50	93	70-130		
Copper	294.9	5.00	"	300	11.17	95	70-130		
Arsenic	815.1	10.0	"	800	< 2.50	102	70-130		
Selenium	2238	10.0	"	2000	< 5.00	112	70-130		
Silver	71.10	5.00	"	75.0	< 2.50	95	70-130		
Cadmium	200.5	1.00	"	200	0.9658	100	70-130		
Antimony	800.9	5.00	"	800	< 2.50	100	70-130		
Thallium	1884	10.0	"	2000	9.850	94	70-130		
Lead	959.2	1.00	"	1000	13.52	95	70-130		
Reference (1610177-SRM2)		Dilution Factor: 2				Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	951.6	40.0	ug/L	1000		95	85-115		
Nickel	980.8	20.0	"	1000		98	85-115		
Copper	992.5	20.0	"	1000		99	85-115		
Arsenic	2112	40.0	"	2000		106	85-115		
Selenium	1172	40.0	"	1000		117	85-115		
Silver	241.6	20.0	"	250		97	85-115		
Cadmium	1014	4.00	"	1000		101	85-115		
Antimony	2026	20.0	"	2000		101	85-115		
Thallium	4737	40.0	"	5000		95	85-115		
Lead	1909	4.00	"	2000		95	85-115		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610178 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610178-BLK2)		Dilution Factor: 5				Prepared: 10/24/16	Analyzed: 11/01/16		
Chromium	< 5.00	10.0	ug/L						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 5.00	10.0	"						
Silver	< 2.50	5.00	"						
Cadmium	< 0.500	1.00	"						
Antimony	< 2.50	5.00	"						
Thallium	< 5.00	10.0	"						
Lead	< 0.500	1.00	"						
Duplicate (1610178-DUP2)		Dilution Factor: 5	**Source: C161005-CP**			Prepared: 10/24/16	Analyzed: 11/01/16		
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	3.372	5.00	"		3.522			4	20
Copper	5.270	5.00	"		5.112			3	20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	1.032	1.00	"		1.008			2	20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	0.6871	1.00	"		0.6534			5	20
Matrix Spike (1610178-MS2)		Dilution Factor: 5	**Source: C161005-CP**			Prepared: 10/24/16	Analyzed: 11/01/16		
Chromium	341.5	10.0	ug/L	400	< 5.00	85	70-130		
Nickel	448.9	5.00	"	500	3.522	89	70-130		
Copper	274.6	5.00	"	300	5.112	90	70-130		
Arsenic	759.4	10.0	"	800	< 2.50	95	70-130		
Selenium	2080	10.0	"	2000	< 5.00	104	70-130		
Silver	65.81	5.00	"	75.0	< 2.50	88	70-130		
Cadmium	190.3	1.00	"	200	1.008	95	70-130		
Antimony	772.3	5.00	"	800	< 2.50	97	70-130		
Thallium	1741	10.0	"	2000	< 5.00	87	70-130		
Lead	854.9	1.00	"	1000	0.6534	85	70-130		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610178 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Matrix Spike (1610178-MS4)		Dilution Factor: 5	**Source: C161005-CS**			Prepared: 10/24/16 Analyzed: 11/01/16			
Chromium	342.9	10.0	ug/L	400	< 5.00	86	70-130		
Nickel	451.4	5.00	"	500	3.267	90	70-130		
Copper	276.6	5.00	"	300	5.247	90	70-130		
Arsenic	765.2	10.0	"	800	< 2.50	96	70-130		
Selenium	2071	10.0	"	2000	< 5.00	104	70-130		
Silver	66.74	5.00	"	75.0	< 2.50	89	70-130		
Cadmium	193.0	1.00	"	200	0.9550	96	70-130		
Antimony	774.9	5.00	"	800	< 2.50	97	70-130		
Thallium	1735	10.0	"	2000	8.159	86	70-130		
Lead	859.7	1.00	"	1000	0.7126	86	70-130		
Reference (1610178-SRM2)		Dilution Factor: 2				Prepared: 10/24/16 Analyzed: 11/01/16			
Chromium	910.9	40.0	ug/L	1000		91	85-115		
Nickel	948.7	20.0	"	1000		95	85-115		
Copper	961.5	20.0	"	1000		96	85-115		
Arsenic	1988	40.0	"	2000		99	85-115		
Selenium	1095	40.0	"	1000		110	85-115		
Silver	229.9	20.0	"	250		92	85-115		
Cadmium	982.6	4.00	"	1000		98	85-115		
Antimony	1939	20.0	"	2000		97	85-115		
Thallium	4342	40.0	"	5000		87	85-115		
Lead	1741	4.00	"	2000		87	85-115		
Batch 1610184 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Method Blank (1610184-BLK2)		Dilution Factor: 5				Prepared: 10/25/16 Analyzed: 11/01/16			
Chromium	< 5.00	10.0	ug/L						
Nickel	< 2.50	5.00	"						
Copper	< 2.50	5.00	"						
Arsenic	< 2.50	10.0	"						
Selenium	< 5.00	10.0	"						
Silver	< 2.50	5.00	"						
Cadmium	< 0.500	1.00	"						
Antimony	< 2.50	5.00	"						
Thallium	< 5.00	10.0	"						
Lead	< 0.500	1.00	"						

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610184 - 200.2 - TR Metals			***Water***						**ICPMS-PE DRC-II**
Duplicate (1610184-DUP2)		Dilution Factor: 5	**Source: C161005-EQ**			Prepared: 10/25/16 Analyzed: 11/01/16			
Chromium	< 5.00	10.0	ug/L		< 5.00				20
Nickel	< 2.50	5.00	"		< 2.50				20
Copper	< 2.50	5.00	"		< 2.50				20
Arsenic	< 2.50	10.0	"		< 2.50				20
Selenium	< 5.00	10.0	"		< 5.00				20
Silver	< 2.50	5.00	"		< 2.50				20
Cadmium	< 0.500	1.00	"		< 0.500				20
Antimony	< 2.50	5.00	"		< 2.50				20
Thallium	< 5.00	10.0	"		< 5.00				20
Lead	< 0.500	1.00	"		< 0.500				20
Matrix Spike (1610184-MS2)		Dilution Factor: 5	**Source: C161005-EQ**			Prepared: 10/25/16 Analyzed: 11/01/16			
Chromium	346.6	10.0	ug/L	400	< 5.00	87	70-130		
Nickel	449.6	5.00	"	500	< 2.50	90	70-130		
Copper	274.3	5.00	"	300	< 2.50	91	70-130		
Arsenic	772.0	10.0	"	800	< 2.50	96	70-130		
Selenium	2081	10.0	"	2000	< 5.00	104	70-130		
Silver	65.57	5.00	"	75.0	< 2.50	87	70-130		
Cadmium	188.7	1.00	"	200	< 0.500	94	70-130		
Antimony	767.7	5.00	"	800	< 2.50	96	70-130		
Thallium	1723	10.0	"	2000	< 5.00	86	70-130		
Lead	856.5	1.00	"	1000	< 0.500	86	70-130		
Reference (1610184-SRM2)		Dilution Factor: 2				Prepared: 10/25/16 Analyzed: 11/01/16			
Chromium	909.9	40.0	ug/L	1000		91	85-115		
Nickel	941.0	20.0	"	1000		94	85-115		
Copper	949.8	20.0	"	1000		95	85-115		
Arsenic	2008	40.0	"	2000		100	85-115		
Selenium	1101	40.0	"	1000		110	85-115		
Silver	229.6	20.0	"	250		92	85-115		
Cadmium	978.6	4.00	"	1000		98	85-115		
Antimony	1957	20.0	"	2000		98	85-115		
Thallium	4405	40.0	"	5000		88	85-115		
Lead	1748	4.00	"	2000		87	85-115		

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610211 - 1610177			*Water*						ICPMS-PE DRC-II
Serial Dilution (1610211-SRD1)		Dilution Factor: 2	**Source: C161005-01**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	12.87	25.0	"		11.66			10	10
Copper	17.23	25.0	"		18.14			5	10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	45.95	5.00	"		48.87			6	10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	414.8	5.00	"		422.8			2	10
Serial Dilution (1610211-SRD2)		Dilution Factor: 2	**Source: C161005-56**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	< 12.5	25.0	"		4.515				10
Copper	128.4	25.0	"		129.5			0.8	10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	11.74	5.00	"		12.31			5	10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	7.144	5.00	"		7.177			0.5	10
Serial Dilution (1610211-SRD3)		Dilution Factor: 2	**Source: C161005-AK**			Prepared: 10/24/16 Analyzed: 10/31/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	< 12.5	25.0	"		< 2.50				10
Copper	< 12.5	25.0	"		8.052				10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	< 2.50	5.00	"		0.6622				10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	10.45	5.00	"		10.53			0.8	10

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1611012 - 1610184			***Water***						**ICPMS-PE DRC-II**
Serial Dilution (1611012-SRD1)		Dilution Factor: 2	**Source: C161005-CP**			Prepared: 10/24/16 Analyzed: 11/01/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	< 12.5	25.0	"		3.522				10
Copper	< 12.5	25.0	"		5.112				10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	< 2.50	5.00	"		1.008				10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	< 2.50	5.00	"		0.6534				10
Serial Dilution (1611012-SRD2)		Dilution Factor: 2	**Source: C161005-EQ**			Prepared: 10/25/16 Analyzed: 11/01/16			
Chromium	< 25.0	50.0	ug/L		< 5.00				10
Nickel	< 12.5	25.0	"		< 2.50				10
Copper	< 12.5	25.0	"		< 2.50				10
Arsenic	< 12.5	50.0	"		< 2.50				10
Selenium	< 25.0	50.0	"		< 5.00				10
Silver	< 12.5	25.0	"		< 2.50				10
Cadmium	< 2.50	5.00	"		< 0.50				10
Antimony	< 12.5	25.0	"		< 2.50				10
Thallium	< 25.0	50.0	"		< 5.00				10
Lead	< 2.50	5.00	"		< 0.50				10

ICPOE - PE Optima

Batch 1610175 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Method Blank (1610175-BLK1)		Dilution Factor: 1				Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Silica (SiO2)	< 250	1000	"						
Zinc	< 10.0	20.0	"						
Strontium	< 2.00	10.0	"						

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TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610175 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Duplicate (1610175-DUP1)		Dilution Factor: 1	**Source: C161005-01**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	3971	50.0	ug/L		3979			0.2	20
Beryllium	4.664	5.00	"		4.677			0.3	20
Calcium	214700	250	"		214200			0.2	20
Iron	26370	250	"		26320			0.2	20
Magnesium	12790	250	"		12700			0.7	20
Manganese	25970	5.00	"		25950			0.07	20
Silica (SiO2)	32000	1000	"		31900			0.3	20
Zinc	32390	20.0	"		32510			0.4	20
Strontium	1857	10.0	"		1868			0.6	20
Matrix Spike (1610175-MS1)		Dilution Factor: 1	**Source: C161005-01**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	5943	50.0	ug/L	2000	3979	98	70-130		
Beryllium	215.0	5.00	"	200	4.677	105	70-130		
Calcium	214900	250	"	1000	214200	66	70-130		
Iron	29530	250	"	3000	26320	107	70-130		
Magnesium	14770	250	"	2000	12700	103	70-130		
Manganese	26030	5.00	"	200	25950	37	70-130		
Silica (SiO2)	33810	1000	"	2000	31900	96	70-130		
Zinc	32930	20.0	"	200	32510	213	70-130		
Strontium	2049	10.0	"	200	1868	91	70-130		
Matrix Spike (1610175-MS3)		Dilution Factor: 1	**Source: C161005-03**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	8821	50.0	ug/L	2000	6770	103	70-130		
Beryllium	209.4	5.00	"	200	< 2.00	105	70-130		
Calcium	165200	250	"	1000	164000	125	70-130		
Iron	17990	250	"	3000	14840	105	70-130		
Magnesium	11910	250	"	2000	9932	99	70-130		
Manganese	4639	5.00	"	200	4464	87	70-130		
Silica (SiO2)	32460	1000	"	2000	30430	102	70-130		
Zinc	2578	20.0	"	200	2397	90	70-130		
Strontium	1996	10.0	"	200	1817	89	70-130		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610175 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Reference (1610175-SRM1)		Dilution Factor: 1				Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	997.3	50.0	ug/L	1000		100	85-115		
Beryllium	1066	5.00	"	1000		107	85-115		
Calcium	1034	250	"	1000		103	85-115		
Iron	1044	250	"	1000		104	85-115		
Magnesium	971.3	250	"	1000		97	85-115		
Manganese	1023	5.00	"	1000		102	85-115		
Silica (SiO2)	4896	1000	"	5000		98	85-115		
Zinc	1031	20.0	"	1000		103	85-115		
Strontium	1051	10.0	"	1000		105	85-115		
Batch 1610176 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Method Blank (1610176-BLK1)		Dilution Factor: 1				Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Silica (SiO2)	< 250	1000	"						
Zinc	< 10.0	20.0	"						
Strontium	< 2.00	10.0	"						
Duplicate (1610176-DUP1)		Dilution Factor: 1	**Source: C161005-56**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	1914	50.0	ug/L		1835			4	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	73270	250	"		73010			0.3	20
Iron	169.7	250	"		< 100				20
Magnesium	6468	250	"		6419			0.7	20
Manganese	2807	5.00	"		2818			0.4	20
Silica (SiO2)	12410	1000	"		12260			1	20
Zinc	3518	20.0	"		3510			0.2	20
Strontium	651.1	10.0	"		646.2			0.7	20

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610176 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Matrix Spike (1610176-MS1)		Dilution Factor: 1	**Source: C161005-56**			Prepared: 10/24/16	Analyzed: 10/31/16		
Aluminum	3680	50.0	ug/L	2000	1835	92	70-130		
Beryllium	201.8	5.00	"	200	< 2.00	101	70-130		
Calcium	71430	250	"	1000	73010	NR	70-130		
Iron	2999	250	"	3000	< 100	100	70-130		
Magnesium	7923	250	"	2000	6419	75	70-130		
Manganese	2857	5.00	"	200	2818	19	70-130		
Silica (SiO2)	13840	1000	"	2000	12260	79	70-130		
Zinc	3514	20.0	"	200	3510	2	70-130		
Strontium	818.1	10.0	"	200	646.2	86	70-130		
Matrix Spike (1610176-MS3)		Dilution Factor: 1	**Source: C161005-59**			Prepared: 10/24/16	Analyzed: 10/31/16		
Aluminum	12170	50.0	ug/L	2000	10210	98	70-130		
Beryllium	211.0	5.00	"	200	< 2.00	105	70-130		
Calcium	109600	250	"	1000	110400	NR	70-130		
Iron	14940	250	"	3000	10090	162	70-130		
Magnesium	12670	250	"	2000	10810	93	70-130		
Manganese	1176	5.00	"	200	976.2	100	70-130		
Silica (SiO2)	23250	1000	"	2000	20940	115	70-130		
Zinc	332.6	20.0	"	200	138.0	97	70-130		
Strontium	1149	10.0	"	200	957.5	96	70-130		
Reference (1610176-SRM1)		Dilution Factor: 1				Prepared: 10/24/16	Analyzed: 10/31/16		
Aluminum	991.2	50.0	ug/L	1000		99	85-115		
Beryllium	1047	5.00	"	1000		105	85-115		
Calcium	1011	250	"	1000		101	85-115		
Iron	1013	250	"	1000		101	85-115		
Magnesium	972.1	250	"	1000		97	85-115		
Manganese	1006	5.00	"	1000		101	85-115		
Silica (SiO2)	4888	1000	"	5000		98	85-115		
Zinc	994.6	20.0	"	1000		99	85-115		
Strontium	1028	10.0	"	1000		103	85-115		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610177 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Method Blank (1610177-BLK1)		Dilution Factor: 1				Prepared: 10/24/16	Analyzed: 10/31/16		
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Silica (SiO2)	< 250	1000	"						
Zinc	< 10.0	20.0	"						
Strontium	< 2.00	10.0	"						
Duplicate (1610177-DUP1)		Dilution Factor: 1	**Source: C161005-AK**			Prepared: 10/24/16	Analyzed: 10/31/16		
Aluminum	177.3	50.0	ug/L		166.1			7	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	46210	250	"		46430			0.5	20
Iron	155.0	250	"		162.0			4	20
Magnesium	2650	250	"		2659			0.3	20
Manganese	144.3	5.00	"		144.2			0.09	20
Silica (SiO2)	7059	1000	"		7138			1	20
Zinc	239.6	20.0	"		234.0			2	20
Strontium	725.8	10.0	"		726.8			0.1	20
Matrix Spike (1610177-MS1)		Dilution Factor: 1	**Source: C161005-AK**			Prepared: 10/24/16	Analyzed: 10/31/16		
Aluminum	2111	50.0	ug/L	2000	166.1	97	70-130		
Beryllium	206.5	5.00	"	200	< 2.00	103	70-130		
Calcium	47320	250	"	1000	46430	89	70-130		
Iron	3091	250	"	3000	162.0	98	70-130		
Magnesium	4572	250	"	2000	2659	96	70-130		
Manganese	340.1	5.00	"	200	144.2	98	70-130		
Silica (SiO2)	9250	1000	"	2000	7138	106	70-130		
Zinc	426.5	20.0	"	200	234.0	96	70-130		
Strontium	925.5	10.0	"	200	726.8	99	70-130		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610177 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Matrix Spike (1610177-MS3)		Dilution Factor: 1	**Source: C161005-AN**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	2555	50.0	ug/L	2000	606.6	97	70-130		
Beryllium	209.0	5.00	"	200	< 2.00	105	70-130		
Calcium	48470	250	"	1000	46630	185	70-130		
Iron	3205	250	"	3000	216.8	100	70-130		
Magnesium	4819	250	"	2000	2870	97	70-130		
Manganese	420.5	5.00	"	200	219.8	100	70-130		
Silica (SiO2)	9778	1000	"	2000	7678	105	70-130		
Zinc	469.7	20.0	"	200	271.7	99	70-130		
Strontium	924.9	10.0	"	200	731.8	97	70-130		
Reference (1610177-SRM1)		Dilution Factor: 1				Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	992.0	50.0	ug/L	1000		99	85-115		
Beryllium	1052	5.00	"	1000		105	85-115		
Calcium	1009	250	"	1000		101	85-115		
Iron	1018	250	"	1000		102	85-115		
Magnesium	964.1	250	"	1000		96	85-115		
Manganese	1006	5.00	"	1000		101	85-115		
Silica (SiO2)	4862	1000	"	5000		97	85-115		
Zinc	995.1	20.0	"	1000		100	85-115		
Strontium	1012	10.0	"	1000		101	85-115		
Batch 1610178 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Method Blank (1610178-BLK1)		Dilution Factor: 1				Prepared: 10/24/16 Analyzed: 11/01/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Silica (SiO2)	< 250	1000	"						
Zinc	< 10.0	20.0	"						
Strontium	< 2.00	10.0	"						

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610178 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Duplicate (1610178-DUP1)		Dilution Factor: 1	**Source: C161005-CP**			Prepared: 10/24/16	Analyzed: 11/01/16		
Aluminum	11550	50.0	ug/L		11490			0.5	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	116900	250	"		116600			0.3	20
Iron	18930	250	"		18640			2	20
Magnesium	11600	250	"		11460			1	20
Manganese	1060	5.00	"		1056			0.4	20
Silica (SiO2)	21610	1000	"		21780			0.8	20
Zinc	142.9	20.0	"		139.6			2	20
Strontium	1029	10.0	"		1033			0.3	20
Matrix Spike (1610178-MS1)		Dilution Factor: 1	**Source: C161005-CP**			Prepared: 10/24/16	Analyzed: 11/01/16		
Aluminum	13420	50.0	ug/L	2000	11490	96	70-130		
Beryllium	207.8	5.00	"	200	< 2.00	104	70-130		
Calcium	116200	250	"	1000	116600	NR	70-130		
Iron	21520	250	"	3000	18640	96	70-130		
Magnesium	13400	250	"	2000	11460	97	70-130		
Manganese	1241	5.00	"	200	1056	92	70-130		
Silica (SiO2)	23490	1000	"	2000	21780	86	70-130		
Zinc	330.4	20.0	"	200	139.6	95	70-130		
Strontium	1228	10.0	"	200	1033	98	70-130		
Matrix Spike (1610178-MS3)		Dilution Factor: 1	**Source: C161005-CS**			Prepared: 10/24/16	Analyzed: 11/01/16		
Aluminum	12460	50.0	ug/L	2000	10610	92	70-130		
Beryllium	210.8	5.00	"	200	< 2.00	105	70-130		
Calcium	113200	250	"	1000	112000	118	70-130		
Iron	20090	250	"	3000	17160	98	70-130		
Magnesium	12770	250	"	2000	10920	92	70-130		
Manganese	1188	5.00	"	200	989.6	99	70-130		
Silica (SiO2)	23210	1000	"	2000	21380	92	70-130		
Zinc	331.1	20.0	"	200	128.9	101	70-130		
Strontium	1183	10.0	"	200	998.3	92	70-130		

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Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610178 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Reference (1610178-SRM1)		Dilution Factor: 1				Prepared: 10/24/16 Analyzed: 11/01/16			
Aluminum	1001	50.0	ug/L	1000		100	85-115		
Beryllium	1054	5.00	"	1000		105	85-115		
Calcium	1027	250	"	1000		103	85-115		
Iron	1071	250	"	1000		107	85-115		
Magnesium	978.8	250	"	1000		98	85-115		
Manganese	1018	5.00	"	1000		102	85-115		
Silica (SiO2)	4912	1000	"	5000		98	85-115		
Zinc	981.7	20.0	"	1000		98	85-115		
Strontium	1050	10.0	"	1000		105	85-115		
Batch 1610184 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Method Blank (1610184-BLK1)		Dilution Factor: 1				Prepared: 10/25/16 Analyzed: 11/01/16			
Aluminum	< 20.0	50.0	ug/L						
Beryllium	< 2.00	5.00	"						
Calcium	< 100	250	"						
Iron	< 100	250	"						
Magnesium	< 100	250	"						
Manganese	< 2.00	5.00	"						
Silica (SiO2)	< 250	1000	"						
Zinc	< 10.0	20.0	"						
Strontium	< 2.00	10.0	"						
Duplicate (1610184-DUP1)		Dilution Factor: 1	**Source: C161005-EQ**			Prepared: 10/25/16 Analyzed: 11/01/16			
Aluminum	591.0	50.0	ug/L		598.1			1	20
Beryllium	< 2.00	5.00	"		< 2.00				20
Calcium	34180	250	"		33540			2	20
Iron	444.7	250	"		448.5			0.8	20
Magnesium	3001	250	"		3000			0.04	20
Manganese	85.12	5.00	"		84.19			1	20
Silica (SiO2)	7495	1000	"		7434			0.8	20
Zinc	22.48	20.0	"		23.38			4	20
Strontium	253.3	10.0	"		254.5			0.5	20

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Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610184 - 200.2 - TR Metals			***Water***						**ICPOE - PE Optima**
Matrix Spike (1610184-MS1)		Dilution Factor: 1		**Source: C161005-EQ**		Prepared: 10/25/16 Analyzed: 11/01/16			
Aluminum	2593	50.0	ug/L	2000	598.1	100	70-130		
Beryllium	207.9	5.00	"	200	< 2.00	104	70-130		
Calcium	34730	250	"	1000	33540	118	70-130		
Iron	3421	250	"	3000	448.5	99	70-130		
Magnesium	5015	250	"	2000	3000	101	70-130		
Manganese	283.7	5.00	"	200	84.19	100	70-130		
Silica (SiO2)	9531	1000	"	2000	7434	105	70-130		
Zinc	216.8	20.0	"	200	23.38	97	70-130		
Strontium	464.2	10.0	"	200	254.5	105	70-130		
Reference (1610184-SRM1)		Dilution Factor: 1				Prepared: 10/25/16 Analyzed: 11/01/16			
Aluminum	1004	50.0	ug/L	1000		100	85-115		
Beryllium	1042	5.00	"	1000		104	85-115		
Calcium	1021	250	"	1000		102	85-115		
Iron	1027	250	"	1000		103	85-115		
Magnesium	970.4	250	"	1000		97	85-115		
Manganese	1006	5.00	"	1000		101	85-115		
Silica (SiO2)	4897	1000	"	5000		98	85-115		
Zinc	977.1	20.0	"	1000		98	85-115		
Strontium	1074	10.0	"	1000		107	85-115		
Batch 1610210 - 1610177			***Water***						**ICPOE - PE Optima**
Serial Dilution (1610210-SRD1)		Dilution Factor: 5		**Source: C161005-01**		Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	3856	250	ug/L		3979			3	10
Beryllium	< 10.0	25.0	"		4.677				10
Calcium	207000	1250	"		214200			3	10
Iron	26330	1250	"		26320			0.02	10
Magnesium	12490	1250	"		12700			2	10
Manganese	28290	25.0	"		25950			9	10
Silica (SiO2)	31750	5000	"		31900			0.5	10
Zinc	34130	100	"		32510			5	10
Strontium	1798	50.0	"		1868			4	10

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TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610210 - 1610177			*Water*						**ICPOE - PE Optima**
Serial Dilution (1610210-SRD2)		Dilution Factor: 5	**Source: C161005-56**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	1778	250	ug/L		1835			3	10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	70610	1250	"		73010			3	10
Iron	< 500	1250	"		< 100.00				10
Magnesium	6186	1250	"		6419			4	10
Manganese	2848	25.0	"		2818			1	10
Silica (SiO2)	12080	5000	"		12260			1	10
Zinc	3530	100	"		3510			0.6	10
Strontium	633.1	50.0	"		646.2			2	10
Serial Dilution (1610210-SRD3)		Dilution Factor: 5	**Source: C161005-AK**			Prepared: 10/24/16 Analyzed: 10/31/16			
Aluminum	156.3	250	ug/L		166.1			6	10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	45870	1250	"		46430			1	10
Iron	< 500	1250	"		162.0				10
Magnesium	2667	1250	"		2659			0.3	10
Manganese	144.9	25.0	"		144.2			0.5	10
Silica (SiO2)	7066	5000	"		7138			1	10
Zinc	242.8	100	"		234.0			4	10
Strontium	715.1	50.0	"		726.8			2	10
Batch 1611011 - 1610184			*Water*						**ICPOE - PE Optima**
Serial Dilution (1611011-SRD1)		Dilution Factor: 5	**Source: C161005-CP**			Prepared: 10/24/16 Analyzed: 11/01/16			
Aluminum	11180	250	ug/L		11490			3	10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	113600	1250	"		116600			3	10
Iron	18770	1250	"		18640			0.7	10
Magnesium	11250	1250	"		11460			2	10
Manganese	1074	25.0	"		1056			2	10
Silica (SiO2)	21410	5000	"		21780			2	10
Zinc	150.5	100	"		139.6			8	10
Strontium	1012	50.0	"		1033			2	10

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Metals (Total Recov) by EPA 200/7000 Series Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1611011 - 1610184			***Water***						**ICPOE - PE Optima**
Serial Dilution (1611011-SRD2)		Dilution Factor: 5		**Source: C161005-EQ**		Prepared: 10/25/16 Analyzed: 11/01/16			
Aluminum	558.7	250	ug/L		598.1			7	10
Beryllium	< 10.0	25.0	"		< 2.00				10
Calcium	32940	1250	"		33540			2	10
Iron	514.5	1250	"		448.5			14	10
Magnesium	2934	1250	"		3000			2	10
Manganese	84.69	25.0	"		84.19			0.6	10
Silica (SiO2)	7423	5000	"		7434			0.2	10
Zinc	< 50.0	100	"		23.38				10
Strontium	247.6	50.0	"		254.5			3	10

NOTE: %R = % Recovery, %R limits do not apply when sample levels exceed 4x the spike level.
RPD = Relative Percent Difference, %D = % Difference, DL = Detection Limit for QC sample .

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
ESAT Dionex IC									
Batch 1610085 - No Prep Req			***Water***						**ESAT Dionex IC**
Method Blank (1610085-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/14/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Method Blank Spike (1610085-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/14/16			
Fluoride	5.4	0.2	mg/L	5.00		107	90-110		
Chloride	25.7	0.8	"	25.0		103	90-110		
Sulfate as SO4	24.8	2.0	"	25.0		99	90-110		
Nitrate/Nitrite as N	10.3	0.2	"	10.0		103	90-110		
Duplicate (1610085-DUP1)		Dilution Factor: 4	**Source: C161005-05**			Prepared & Analyzed: 10/14/16			
Fluoride	1.8	0.8	mg/L		1.8			1	20
Chloride	< 1.6	3.2	"		< 1.6				20
Sulfate as SO4	542	8.0	"		542			0.04	20
Nitrate/Nitrite as N	< 0.4	0.8	"		< 0.4				20
Matrix Spike (1610085-MS1)		Dilution Factor: 4	**Source: C161005-05**			Prepared & Analyzed: 10/14/16			
Fluoride	22.0	0.8	mg/L	20.0	1.8	101	80-120		
Chloride	103	3.2	"	100	< 1.6	103	80-120		
Sulfate as SO4	646	8.0	"	100	542	104	80-120		
Nitrate/Nitrite as N	41.0	0.8	"	40.0	< 0.4	102	80-120		
Matrix Spike (1610085-MS2)		Dilution Factor: 2	**Source: C161005-37**			Prepared & Analyzed: 10/14/16			
Fluoride	11.6	0.4	mg/L	10.0	0.9	107	80-120		
Chloride	52.2	1.6	"	50.0	< 0.8	104	80-120		
Sulfate as SO4	236	4.0	"	50.0	181	110	80-120		
Nitrate/Nitrite as N	21.2	0.4	"	20.0	< 0.2	106	80-120		

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610088 - No Prep Req			*Water*						**ESAT Dionex IC**
Method Blank (1610088-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/14/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Method Blank Spike (1610088-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/14/16			
Fluoride	5.4	0.2	mg/L	5.00		107	90-110		
Chloride	25.9	0.8	"	25.0		104	90-110		
Sulfate as SO4	25.0	2.0	"	25.0		100	90-110		
Nitrate/Nitrite as N	10.4	0.2	"	10.0		104	90-110		
Duplicate (1610088-DUP1)		Dilution Factor: 4	**Source: C161005-67**			Prepared & Analyzed: 10/14/16			
Fluoride	0.9	0.8	mg/L		1.0			8	20
Chloride	< 1.6	3.2	"		< 1.6				20
Sulfate as SO4	406	8.0	"		410			0.8	20
Nitrate/Nitrite as N	< 0.4	0.8	"		< 0.4				20
Matrix Spike (1610088-MS1)		Dilution Factor: 4	**Source: C161005-67**			Prepared & Analyzed: 10/14/16			
Fluoride	20.4	0.8	mg/L	20.0	1.0	97	80-120		
Chloride	104	3.2	"	100	< 1.6	104	80-120		
Sulfate as SO4	516	8.0	"	100	410	106	80-120		
Nitrate/Nitrite as N	41.3	0.8	"	40.0	< 0.4	103	80-120		
Matrix Spike (1610088-MS2)		Dilution Factor: 2	**Source: C161005-97**			Prepared & Analyzed: 10/15/16			
Fluoride	10.9	0.4	mg/L	10.0	0.6	103	80-120		
Chloride	53.7	1.6	"	50.0	0.8	106	80-120		
Sulfate as SO4	262	4.0	"	50.0	205	114	80-120		
Nitrate/Nitrite as N	21.1	0.4	"	20.0	< 0.2	105	80-120		

Project Name: Bonita Peak_Water 3_OCT_2016_A119 **Certificate of Analysis**

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610089 - No Prep Req			*Water*						**ESAT Dionex IC**
Method Blank (1610089-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/17/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Method Blank Spike (1610089-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/17/16			
Fluoride	5.4	0.2	mg/L	5.00		108	90-110		
Chloride	25.9	0.8	"	25.0		104	90-110		
Sulfate as SO4	25.0	2.0	"	25.0		100	90-110		
Nitrate/Nitrite as N	10.4	0.2	"	10.0		104	90-110		
Duplicate (1610089-DUP1)		Dilution Factor: 1	**Source: C161005-BB**			Prepared & Analyzed: 10/17/16			
Fluoride	0.2	0.2	mg/L		0.2			3	20
Chloride	1.1	0.8	"		1.0			2	20
Sulfate as SO4	134	2.0	"		134			0.07	20
Nitrate/Nitrite as N	< 0.1	0.2	"		< 0.1				20
Matrix Spike (1610089-MS1)		Dilution Factor: 1	**Source: C161005-BB**			Prepared & Analyzed: 10/17/16			
Fluoride	5.3	0.2	mg/L	5.00	0.2	104	80-120		
Chloride	27.0	0.8	"	25.0	1.0	104	80-120		
Sulfate as SO4	160	2.0	"	25.0	134	104	80-120		
Nitrate/Nitrite as N	10.4	0.2	"	10.0	< 0.1	104	80-120		
Matrix Spike (1610089-MS2)		Dilution Factor: 2	**Source: C161005-CF**			Prepared & Analyzed: 10/17/16			
Fluoride	11.9	0.4	mg/L	10.0	1.1	108	80-120		
Chloride	52.8	1.6	"	50.0	< 0.8	106	80-120		
Sulfate as SO4	446	4.0	"	50.0	400	92	80-120		
Nitrate/Nitrite as N	21.2	0.4	"	20.0	< 0.2	106	80-120		

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610090 - No Prep Req			*Water*						**ESAT Dionex IC**
Method Blank (1610090-BLK1)		Dilution Factor: 1				Prepared & Analyzed: 10/17/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Method Blank (1610090-BLK2)		Dilution Factor: 1				Prepared & Analyzed: 10/18/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Method Blank Spike (1610090-BS1)		Dilution Factor: 1				Prepared & Analyzed: 10/17/16			
Fluoride	5.4	0.2	mg/L	5.00		108	90-110		
Chloride	26.1	0.8	"	25.0		105	90-110		
Sulfate as SO4	25.1	2.0	"	25.0		101	90-110		
Nitrate/Nitrite as N	10.4	0.2	"	10.0		104	90-110		
Method Blank Spike (1610090-BS2)		Dilution Factor: 1				Prepared & Analyzed: 10/18/16			
Fluoride	5.5	0.2	mg/L	5.00		109	90-110		
Chloride	26.1	0.8	"	25.0		104	90-110		
Sulfate as SO4	25.1	2.0	"	25.0		100	90-110		
Nitrate/Nitrite as N	10.4	0.2	"	10.0		104	90-110		
Duplicate (1610090-DUP1)		Dilution Factor: 4	**Source: C161005-DL**			Prepared & Analyzed: 10/17/16			
Fluoride	0.7	0.8	mg/L		0.7			6	20
Chloride	< 1.6	3.2	"		< 1.6				20
Sulfate as SO4	275	8.0	"		275			0.1	20
Nitrate/Nitrite as N	< 0.4	0.8	"		< 0.4				20

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610090 - No Prep Req			*Water*						**ESAT Dionex IC**
Duplicate (1610090-DUP2)		Dilution Factor: 1	**Source: C161005-FT**			Prepared & Analyzed: 10/18/16			
Fluoride	0.3	0.2	mg/L		0.3			6	20
Chloride	0.7	0.8	"		0.6			1	20
Sulfate as SO4	123	2.0	"		123			0.1	20
Nitrate/Nitrite as N	< 0.1	0.2	"		< 0.1				20
Matrix Spike (1610090-MS1)		Dilution Factor: 4	**Source: C161005-DL**			Prepared & Analyzed: 10/17/16			
Fluoride	22.2	0.8	mg/L	20.0	0.7	108	80-120		
Chloride	105	3.2	"	100	< 1.6	105	80-120		
Sulfate as SO4	386	8.0	"	100	275	111	80-120		
Nitrate/Nitrite as N	41.4	0.8	"	40.0	< 0.4	103	80-120		
Matrix Spike (1610090-MS2)		Dilution Factor: 1	**Source: C161005-EP**			Prepared & Analyzed: 10/17/16			
Fluoride	5.4	0.2	mg/L	5.00	< 0.1	107	80-120		
Chloride	50.9	0.8	"	25.0	23.7	109	80-120		
Sulfate as SO4	89.1	2.0	"	25.0	60.2	115	80-120		
Nitrate/Nitrite as N	10.3	0.2	"	10.0	< 0.1	103	80-120		
Matrix Spike (1610090-MS3)		Dilution Factor: 1	**Source: C161005-FT**			Prepared & Analyzed: 10/18/16			
Fluoride	5.8	0.2	mg/L	5.00	0.3	110	80-120		
Chloride	27.1	0.8	"	25.0	0.6	106	80-120		
Sulfate as SO4	150	2.0	"	25.0	123	107	80-120		
Nitrate/Nitrite as N	10.7	0.2	"	10.0	< 0.1	107	80-120		
Batch 1610144 - 1610085			*Water*						**ESAT Dionex IC**
Instrument Blank (1610144-IBL1)		Dilution Factor: 1				Prepared & Analyzed: 10/14/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610145 - 1610088			***Water***						**ESAT Dionex IC**
Instrument Blank (1610145-IBL1)		Dilution Factor: 1				Prepared & Analyzed: 10/14/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Batch 1610164 - 1610089			***Water***						**ESAT Dionex IC**
Instrument Blank (1610164-IBL1)		Dilution Factor: 1				Prepared & Analyzed: 10/17/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						
Batch 1610165 - 1610090			***Water***						**ESAT Dionex IC**
Instrument Blank (1610165-IBL1)		Dilution Factor: 1				Prepared & Analyzed: 10/17/16			
Fluoride	< 0.1	0.2	mg/L						
Chloride	< 0.4	0.8	"						
Sulfate as SO4	< 1.0	2.0	"						
Nitrate/Nitrite as N	< 0.1	0.2	"						

Mettler AT

Batch 1610060 - No Prep Req			***Water***						**Mettler AT**
Method Blank (1610060-BLK1)		Dilution Factor: 1				Prepared: 10/06/16 Analyzed: 10/07/16			
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610060 - No Prep Req			***Water***						**Mettler AT**
Method Blank (1610060-BLK2)		Dilution Factor: 1				Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L						
Duplicate (1610060-DUP1)		Dilution Factor: 1	**Source: C161005-22**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L		< 5.00				20
Duplicate (1610060-DUP2)		Dilution Factor: 1	**Source: C161005-85**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	14.2	10.0	mg CaCO3 / L		14.3			0.5	20
Duplicate (1610060-DUP3)		Dilution Factor: 1	**Source: C161005-97**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L		< 5.00				20
Duplicate (1610060-DUP4)		Dilution Factor: 1	**Source: C161005-AS**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L		< 5.00				20
Duplicate (1610060-DUP5)		Dilution Factor: 1	**Source: C161005-BB**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	6.39	10.0	mg CaCO3 / L		6.35			0.6	20
Reference (1610060-SRM1)		Dilution Factor: 1				Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	63.7	10.0	mg CaCO3 / L	63.4		101	85-115.1		
Batch 1610061 - No Prep Req			***Water***						**Mettler AT**
Method Blank (1610061-BLK1)		Dilution Factor: 1				Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L						
Method Blank (1610061-BLK2)		Dilution Factor: 1				Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L						

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Classical Chemistry by EPA/ASTM/APHA Methods - Quality Control

TechLaw, Inc. - ESAT Region 8

Analyte	Result	Det. Limit	Units	Spike Level	Source Result	%R	%R Limits	%D or RPD	%D or RPD Limit
Batch 1610061 - No Prep Req			***Water***						**Mettler AT**
Duplicate (1610061-DUP1)		Dilution Factor: 1	**Source: C161005-BK**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L		< 5.00				20
Duplicate (1610061-DUP2)		Dilution Factor: 1	**Source: C161005-BZ**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	8.06	10.0	mg CaCO3 / L		8.04			0.2	20
Duplicate (1610061-DUP3)		Dilution Factor: 1	**Source: C161005-DA**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	< 5.00	10.0	mg CaCO3 / L		< 5.00				20
Duplicate (1610061-DUP4)		Dilution Factor: 1	**Source: C161005-EA**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	19.3	10.0	mg CaCO3 / L		18.7			3	20
Duplicate (1610061-DUP5)		Dilution Factor: 1	**Source: C161005-FE**			Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	40.2	10.0	mg CaCO3 / L		39.2			3	20
Reference (1610061-SRM1)		Dilution Factor: 1				Prepared: 10/06/16	Analyzed: 10/07/16		
Total Alkalinity	64.1	10.0	mg CaCO3 / L	63.4		101	85-115.1		

NOTE: %R = % Recovery, %R limits do not apply when sample levels exceed 4x the spike level.
RPD = Relative Percent Difference, %D = % Difference, DL = Detection Limit for QC sample .

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 310.1 Analysis Name: WC - Alkalinity

Instrument: **Mettler AT** Work Order: Nu C161005

Analytical Sequence: **Total** Concentration Units: mg CaCO3 / L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Total Alkalinity		1	2	3	4	1610061-BLK1	NA	10.00
		1.79	1.91	2.10	1.83	1.70	NA	
		5	6	7	8			
		1.92						
		1	2	3	4	NA	1610061-BLK2	10.00
		1.79	1.91	2.10	1.83	NA	2.24	
		5	6	7	8			
		1.92						
		1	2	3	4	NA	1610060-BLK2	10.00
		1.79	1.91	2.10	1.83	NA	2.25	
		5	6	7	8			
		1.92						
		1	2	3	4	1610060-BLK1	NA	10.00
		1.79	1.91	2.10	1.83	1.50	NA	
		5	6	7	8			
		1.92						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 310.1 Analysis Name: WC - Alkalinity

Instrument: **Mettler AT** Work Order: Nu C161005

Analytical Sequence: **Total** Concentration Units: mg CaCO3 / L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Total Alkalinity		1	2	3	4	1610060-BLK1	NA	10.00
		1.76	2.47	3.39	3.32	1.50	NA	
		5	6	7	8			
		1.97						
		1	2	3	4	1610061-BLK1	NA	10.00
		1.76	2.47	3.39	3.32	1.70	NA	
		5	6	7	8			
		1.97						
		1	2	3	4	NA	1610061-BLK2	10.00
		1.76	2.47	3.39	3.32	NA	2.24	
		5	6	7	8			
		1.97						
		1	2	3	4	NA	1610060-BLK2	10.00
		1.76	2.47	3.39	3.32	NA	2.25	
		5	6	7	8			
		1.97						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610144 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Fluoride	0.00	1	2	3	4	1610089-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610085-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.20
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Chloride	0.00	1	2	3	4	NA	1610090-BLK2	0.80
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610144 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chloride	0.00	1	2	3	4	1610089-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610085-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Sulfate as SO4	0.00	1	2	3	4	1610085-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	2.00
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Nitrate/Nitrite as N	0.00	1	2	3	4	1610088-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610144 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nitrate/Nitrite as N	0.00	1	2	3	4	NA	1610090-BLK2	0.20
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610085-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610145 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Fluoride	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.20
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610085-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Chloride	0.00	1	2	3	4	1610089-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.80
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610145 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chloride	0.00	1	2	3	4	1610085-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Sulfate as SO4	0.00	1	2	3	4	1610085-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	2.00
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Nitrate/Nitrite as N	0.00	1	2	3	4	1610085-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610145 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nitrate/Nitrite as N	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.20
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610164 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Fluoride	0.00	1	2	3	4	1610085-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.20
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Chloride	0.00	1	2	3	4	NA	1610090-BLK2	0.80
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610164 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chloride	0.00	1	2	3	4	1610089-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610085-BLK1	NA	0.80
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Sulfate as SO4	0.00	1	2	3	4	1610085-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610089-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	2.00
		0.00	0.00	0.00		NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	2.00
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			
Nitrate/Nitrite as N	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00		0.00	NA	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610164 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
		1	2	3	4	NA	1610090-BLK2	
Nitrate/Nitrite as N	0.00	0.00	0.00	0.00		NA	0.00	0.20
		5	6	7	8			
		1	2	3	4	1610088-BLK1	NA	
	0.00	0.00	0.00	0.00		0.00	NA	0.20
		5	6	7	8			
		1	2	3	4	1610089-BLK1	NA	
	0.00	0.00	0.00	0.00		0.00	NA	0.20
		5	6	7	8			
		1	2	3	4	1610085-BLK1	NA	
	0.00	0.00	0.00	0.00		0.00	NA	0.20
		5	6	7	8			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610165 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Fluoride	0.00	1	2	3	4	1610089-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610085-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	1610088-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
Chloride	0.00	1	2	3	4	1610089-BLK1	NA	0.80
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610090-BLK2	0.80
		0.00	0.00	0.00	0.00	NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	1610090-BLK1	NA	0.80
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610165 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
		1	2	3	4	1610085-BLK1	NA	
Chloride	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.80
		5	6	7	8			
		1	2	3	4	1610088-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.80
		5	6	7	8			
		1	2	3	4	NA	1610090-BLK2	
Sulfate as SO4	0.00	0.00	0.00	0.00	0.00	NA	0.00	2.00
		5	6	7	8			
		1	2	3	4	1610090-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	2.00
		5	6	7	8			
		1	2	3	4	1610089-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	2.00
		5	6	7	8			
		1	2	3	4	1610085-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	2.00
		5	6	7	8			
		1	2	3	4	1610088-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	2.00
		5	6	7	8			
		1	2	3	4	NA	1610090-BLK2	
Nitrate/Nitrite as N	0.00	0.00	0.00	0.00	0.00	NA	0.00	0.20
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography

Instrument: **ESAT Dionex IC** Work Order: Nu C161005

Analytical Sequence: 1610165 **Dissolved** Concentration Units: mg/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
		1	2	3	4	1610089-BLK1	NA	
Nitrate/Nitrite as N	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.20
		5	6	7	8			
		1	2	3	4	1610085-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.20
		5	6	7	8			
		1	2	3	4	1610090-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.20
		5	6	7	8			
		1	2	3	4	1610088-BLK1	NA	
	0.00	0.00	0.00	0.00	0.00	0.00	NA	0.20
		5	6	7	8			

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610195 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Aluminum	-1.36	1	2	3	4	1610196-BLK1	NA	50.00
		0.40	-1.01	0.79	-0.06	-2.37	NA	
		5	6	7	8			
		0.67	-1.62					
	-1.36	1	2	3	4	1610202-BLK1	NA	50.00
		0.40	-1.01	0.79	-0.06	-4.27	NA	
		5	6	7	8			
		0.67	-1.62					
	-1.36	1	2	3	4	1610185-BLK1	NA	50.00
		0.40	-1.01	0.79	-0.06	-1.04	NA	
		5	6	7	8			
		0.67	-1.62					
	-1.36	1	2	3	4	1610200-BLK1	NA	50.00
		0.40	-1.01	0.79	-0.06	-1.05	NA	
		5	6	7	8			
		0.67	-1.62					
	-1.36	1	2	3	4	1610191-BLK1	NA	50.00
		0.40	-1.01	0.79	-0.06	-1.31	NA	
		5	6	7	8			
		0.67	-1.62					
Beryllium	0.07	1	2	3	4	1610196-BLK1	NA	5.00
		0.09	0.08	0.16	0.11	-0.05	NA	
		5	6	7	8			
		0.15	0.09					
	0.07	1	2	3	4	1610185-BLK1	NA	5.00
		0.09	0.08	0.16	0.11	0.05	NA	
		5	6	7	8			
		0.15	0.09					
	0.07	1	2	3	4	1610200-BLK1	NA	5.00
		0.09	0.08	0.16	0.11	0.01	NA	
		5	6	7	8			
		0.15	0.09					

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610195 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Beryllium	0.07	1	2	3	4	1610202-BLK1	NA	5.00
		0.09	0.08	0.16	0.11	0.02	NA	
		5	6	7	8			
		0.15	0.09					
	0.07	1	2	3	4	1610191-BLK1	NA	5.00
		0.09	0.08	0.16	0.11	0.06	NA	
		5	6	7	8			
		0.15	0.09					
Calcium	0.76	1	2	3	4	1610200-BLK1	NA	250.00
		1.23	1.92	1.37	2.77	0.39	NA	
		5	6	7	8			
		1.40	3.09					
	0.76	1	2	3	4	1610185-BLK1	NA	250.00
		1.23	1.92	1.37	2.77	-2.80	NA	
		5	6	7	8			
		1.40	3.09					
	0.76	1	2	3	4	1610202-BLK1	NA	250.00
		1.23	1.92	1.37	2.77	1.41	NA	
		5	6	7	8			
		1.40	3.09					
	0.76	1	2	3	4	1610191-BLK1	NA	250.00
		1.23	1.92	1.37	2.77	-3.63	NA	
		5	6	7	8			
		1.40	3.09					
	0.76	1	2	3	4	1610196-BLK1	NA	250.00
		1.23	1.92	1.37	2.77	1.84	NA	
		5	6	7	8			
		1.40	3.09					
Iron	0.11	1	2	3	4	1610185-BLK1	NA	250.00
		41.37	12.86	30.06	14.35	38.54	NA	
		5	6	7	8			
		14.03	22.77					

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610195 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Iron	0.11	1	2	3	4	1610200-BLK1	NA	250.00
		41.37	12.86	30.06	14.35	8.71	NA	
		5	6	7	8			
		14.03	22.77					
	0.11	1	2	3	4	1610191-BLK1	NA	250.00
		41.37	12.86	30.06	14.35	4.97	NA	
		5	6	7	8			
		14.03	22.77					
	0.11	1	2	3	4	1610196-BLK1	NA	250.00
		41.37	12.86	30.06	14.35	7.24	NA	
		5	6	7	8			
		14.03	22.77					
	0.11	1	2	3	4	1610202-BLK1	NA	250.00
		41.37	12.86	30.06	14.35	0.63	NA	
		5	6	7	8			
		14.03	22.77					
Magnesium	-0.46	1	2	3	4	1610191-BLK1	NA	250.00
		0.78	0.55	1.11	0.39	-0.41	NA	
		5	6	7	8			
		0.41	0.86					
	-0.46	1	2	3	4	1610200-BLK1	NA	250.00
		0.78	0.55	1.11	0.39	0.19	NA	
		5	6	7	8			
		0.41	0.86					
	-0.46	1	2	3	4	1610202-BLK1	NA	250.00
		0.78	0.55	1.11	0.39	0.19	NA	
		5	6	7	8			
		0.41	0.86					
	-0.46	1	2	3	4	1610196-BLK1	NA	250.00
		0.78	0.55	1.11	0.39	1.88	NA	
		5	6	7	8			
		0.41	0.86					

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610195 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Magnesium	-0.46	1	2	3	4	1610185-BLK1	NA	250.00
		0.78	0.55	1.11	0.39	0.42	NA	
		5	6	7	8			
		0.41	0.86					
Manganese	0.05	1	2	3	4	1610202-BLK1	NA	5.00
		0.07	0.04	0.06	0.03	-0.02	NA	
		5	6	7	8			
		0.11	0.09					
	0.05	1	2	3	4	1610196-BLK1	NA	5.00
		0.07	0.04	0.06	0.03	0.00	NA	
		5	6	7	8			
		0.11	0.09					
	0.05	1	2	3	4	1610185-BLK1	NA	5.00
		0.07	0.04	0.06	0.03	0.00	NA	
		5	6	7	8			
		0.11	0.09					
	0.05	1	2	3	4	1610200-BLK1	NA	5.00
		0.07	0.04	0.06	0.03	-0.04	NA	
		5	6	7	8			
		0.11	0.09					
	0.05	1	2	3	4	1610191-BLK1	NA	5.00
		0.07	0.04	0.06	0.03	-0.03	NA	
		5	6	7	8			
		0.11	0.09					
Strontium	0.08	1	2	3	4	1610200-BLK1	NA	10.00
		0.02	0.03	0.12	0.08	0.05	NA	
		5	6	7	8			
		0.09	0.03					
	0.08	1	2	3	4	1610191-BLK1	NA	10.00
		0.02	0.03	0.12	0.08	0.01	NA	
		5	6	7	8			
		0.09	0.03					

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610195 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Strontium	0.08	1	2	3	4	1610196-BLK1	NA	10.00
		0.02	0.03	0.12	0.08	0.04	NA	
		5	6	7	8			
		0.09	0.03					
	0.08	1	2	3	4	1610202-BLK1	NA	10.00
		0.02	0.03	0.12	0.08	-0.06	NA	
		5	6	7	8			
		0.09	0.03					
	0.08	1	2	3	4	1610185-BLK1	NA	10.00
		0.02	0.03	0.12	0.08	-0.06	NA	
		5	6	7	8			
		0.09	0.03					
Zinc	1.79	1	2	3	4	1610200-BLK1	NA	20.00
		0.25	-0.08	0.39	0.55	-1.01	NA	
		5	6	7	8			
		0.46	0.34					
	1.79	1	2	3	4	1610196-BLK1	NA	20.00
		0.25	-0.08	0.39	0.55	-1.41	NA	
		5	6	7	8			
		0.46	0.34					
	1.79	1	2	3	4	1610185-BLK1	NA	20.00
		0.25	-0.08	0.39	0.55	-0.36	NA	
		5	6	7	8			
		0.46	0.34					
	1.79	1	2	3	4	1610191-BLK1	NA	20.00
		0.25	-0.08	0.39	0.55	-0.93	NA	
		5	6	7	8			
		0.46	0.34					
	1.79	1	2	3	4	1610202-BLK1	NA	20.00
		0.25	-0.08	0.39	0.55	-0.20	NA	
		5	6	7	8			
		0.46	0.34					

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610195 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Silica (SiO2)	2.48	1	2	3	4	1610196-BLK1	NA	1,000.00
		-1.93	-2.22	-2.36	-3.24	-3.96	NA	
		5	6	7	8			
		-2.58	-3.20					
	2.48	1	2	3	4	1610202-BLK1	NA	1,000.00
		-1.93	-2.22	-2.36	-3.24	40.16	NA	
		5	6	7	8			
		-2.58	-3.20					
	2.48	1	2	3	4	1610185-BLK1	NA	1,000.00
		-1.93	-2.22	-2.36	-3.24	-1.14	NA	
		5	6	7	8			
		-2.58	-3.20					
	2.48	1	2	3	4	1610191-BLK1	NA	1,000.00
		-1.93	-2.22	-2.36	-3.24	-4.23	NA	
		5	6	7	8			
		-2.58	-3.20					
	2.48	1	2	3	4	1610200-BLK1	NA	1,000.00
		-1.93	-2.22	-2.36	-3.24	33.34	NA	
		5	6	7	8			
		-2.58	-3.20					

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	-0.27	1	2	3	4	1610201-BLK1	NA	2.00
		-0.28	-0.27	-0.29	-0.26	-0.08	NA	
		5	6	7	8			
		-0.30	-0.29					
	-0.27	1	2	3	4	1610197-BLK1	NA	2.00
		-0.28	-0.27	-0.29	-0.26	-0.13	NA	
		5	6	7	8			
		-0.30	-0.29					
	-0.27	1	2	3	4	1610186-BLK1	NA	2.00
		-0.28	-0.27	-0.29	-0.26	-0.26	NA	
		5	6	7	8			
		-0.30	-0.29					
	-0.27	1	2	3	4	1610203-BLK1	NA	2.00
		-0.28	-0.27	-0.29	-0.26	-0.04	NA	
		5	6	7	8			
		-0.30	-0.29					
	-0.27	1	2	3	4	1610192-BLK1	NA	2.00
		-0.28	-0.27	-0.29	-0.26	-0.24	NA	
		5	6	7	8			
		-0.30	-0.29					
Nickel	0.00	1	2	3	4	1610186-BLK1	NA	1.00
		0.00	0.01	0.01	0.00	-0.02	NA	
		5	6	7	8			
		0.00	0.00					
	0.00	1	2	3	4	1610197-BLK1	NA	1.00
		0.00	0.01	0.01	0.00	-0.02	NA	
		5	6	7	8			
		0.00	0.00					
	0.00	1	2	3	4	1610203-BLK1	NA	1.00
		0.00	0.01	0.01	0.00	-0.03	NA	
		5	6	7	8			
		0.00	0.00					

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nickel	0.00	1	2	3	4	1610192-BLK1	NA	1.00
		0.00	0.01	0.01	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00					
	0.00	1	2	3	4	1610201-BLK1	NA	1.00
		0.00	0.01	0.01	0.00	0.02	NA	
		5	6	7	8			
		0.00	0.00					
Copper	-0.01	1	2	3	4	1610186-BLK1	NA	1.00
		0.01	0.00	0.02	0.00	-0.08	NA	
		5	6	7	8			
		0.00	0.02					
	-0.01	1	2	3	4	1610201-BLK1	NA	1.00
		0.01	0.00	0.02	0.00	-0.06	NA	
		5	6	7	8			
		0.00	0.02					
	-0.01	1	2	3	4	1610197-BLK1	NA	1.00
		0.01	0.00	0.02	0.00	-0.10	NA	
		5	6	7	8			
		0.00	0.02					
	-0.01	1	2	3	4	1610203-BLK1	NA	1.00
		0.01	0.00	0.02	0.00	-0.05	NA	
		5	6	7	8			
		0.00	0.02					
	-0.01	1	2	3	4	1610192-BLK1	NA	1.00
		0.01	0.00	0.02	0.00	-0.09	NA	
		5	6	7	8			
		0.00	0.02					
Arsenic	0.10	1	2	3	4	1610197-BLK1	NA	2.00
		-0.07	0.05	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.04	0.00					

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Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Arsenic	0.10	1	2	3	4	1610201-BLK1	NA	2.00
		-0.07	0.05	0.00	0.00	-0.03	NA	
		5	6	7	8			
		0.04	0.00					
	0.10	1	2	3	4	1610203-BLK1	NA	2.00
		-0.07	0.05	0.00	0.00	-0.03	NA	
		5	6	7	8			
		0.04	0.00					
	0.10	1	2	3	4	1610192-BLK1	NA	2.00
		-0.07	0.05	0.00	0.00	0.06	NA	
		5	6	7	8			
		0.04	0.00					
	0.10	1	2	3	4	1610186-BLK1	NA	2.00
		-0.07	0.05	0.00	0.00	0.02	NA	
		5	6	7	8			
		0.04	0.00					
Selenium	0.34	1	2	3	4	1610201-BLK1	NA	2.00
		0.06	-0.10	-0.06	0.13	-0.19	NA	
		5	6	7	8			
		0.12	0.06					
	0.34	1	2	3	4	1610203-BLK1	NA	2.00
		0.06	-0.10	-0.06	0.13	0.00	NA	
		5	6	7	8			
		0.12	0.06					
	0.34	1	2	3	4	1610186-BLK1	NA	2.00
		0.06	-0.10	-0.06	0.13	0.11	NA	
		5	6	7	8			
		0.12	0.06					
	0.34	1	2	3	4	1610192-BLK1	NA	2.00
		0.06	-0.10	-0.06	0.13	0.09	NA	
		5	6	7	8			
		0.12	0.06					

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Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Selenium	0.34	1	2	3	4	1610197-BLK1	NA	2.00
		0.06	-0.10	-0.06	0.13	-0.14	NA	
		5	6	7	8			
		0.12	0.06					
Silver	0.00	1	2	3	4	1610201-BLK1	NA	1.00
		0.01	0.00	0.00	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01					
	0.00	1	2	3	4	1610192-BLK1	NA	1.00
		0.01	0.00	0.00	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01					
	0.00	1	2	3	4	1610197-BLK1	NA	1.00
		0.01	0.00	0.00	0.01	0.01	NA	
		5	6	7	8			
		0.01	0.01					
	0.00	1	2	3	4	1610203-BLK1	NA	1.00
		0.01	0.00	0.00	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01					
	0.00	1	2	3	4	1610186-BLK1	NA	1.00
		0.01	0.00	0.00	0.01	0.01	NA	
		5	6	7	8			
		0.01	0.01					
Cadmium	0.00	1	2	3	4	1610186-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.00					
	0.00	1	2	3	4	1610203-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00					

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Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.00	1	2	3	4	1610197-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.00					
	0.00	1	2	3	4	1610201-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00					
	0.00	1	2	3	4	1610192-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.00					
Antimony	0.12	1	2	3	4	1610203-BLK1	NA	1.00
		0.14	0.15	0.15	0.15	0.07	NA	
		5	6	7	8			
		0.14	0.14					
	0.12	1	2	3	4	1610197-BLK1	NA	1.00
		0.14	0.15	0.15	0.15	0.13	NA	
		5	6	7	8			
		0.14	0.14					
	0.12	1	2	3	4	1610192-BLK1	NA	1.00
		0.14	0.15	0.15	0.15	0.06	NA	
		5	6	7	8			
		0.14	0.14					
	0.12	1	2	3	4	1610186-BLK1	NA	1.00
		0.14	0.15	0.15	0.15	0.13	NA	
		5	6	7	8			
		0.14	0.14					
	0.12	1	2	3	4	1610201-BLK1	NA	1.00
		0.14	0.15	0.15	0.15	0.05	NA	
		5	6	7	8			
		0.14	0.14					

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Thallium	0.00	1	2	3	4	1610197-BLK1	NA	2.00
		0.00	0.01	0.00	-0.01	-0.02	NA	
		5	6	7	8			
		0.00	-0.01					
	0.00	1	2	3	4	1610186-BLK1	NA	2.00
		0.00	0.01	0.00	-0.01	-0.03	NA	
		5	6	7	8			
		0.00	-0.01					
	0.00	1	2	3	4	1610201-BLK1	NA	2.00
		0.00	0.01	0.00	-0.01	-0.03	NA	
		5	6	7	8			
		0.00	-0.01					
	0.00	1	2	3	4	1610192-BLK1	NA	2.00
		0.00	0.01	0.00	-0.01	-0.05	NA	
		5	6	7	8			
		0.00	-0.01					
	0.00	1	2	3	4	1610203-BLK1	NA	2.00
		0.00	0.01	0.00	-0.01	-0.03	NA	
		5	6	7	8			
		0.00	-0.01					
Lead	0.01	1	2	3	4	1610192-BLK1	NA	0.20
		-0.01	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	-0.01					
	0.01	1	2	3	4	1610201-BLK1	NA	0.20
		-0.01	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	-0.01					
	0.01	1	2	3	4	1610197-BLK1	NA	0.20
		-0.01	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	-0.01					

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610199 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Lead	0.01	1	2	3	4	1610203-BLK1	NA	0.20
		-0.01	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	-0.01					
	0.01	1	2	3	4	1610186-BLK1	NA	0.20
		-0.01	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	-0.01					

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610204 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
		1	2	3	4	1610200-BLK1	NA	
Aluminum	-1.07	1.99	-1.72	-2.84	-3.61	-1.05	NA	50.00
		5	6	7	8			
		-1.11	-3.47	0.46				
		1	2	3	4	1610196-BLK1	NA	
	-1.07	1.99	-1.72	-2.84	-3.61	-2.37	NA	50.00
		5	6	7	8			
		-1.11	-3.47	0.46				
		1	2	3	4	1610185-BLK1	NA	
	-1.07	1.99	-1.72	-2.84	-3.61	-1.04	NA	50.00
		5	6	7	8			
		-1.11	-3.47	0.46				
		1	2	3	4	1610191-BLK1	NA	
	-1.07	1.99	-1.72	-2.84	-3.61	-1.31	NA	50.00
		5	6	7	8			
		-1.11	-3.47	0.46				
		1	2	3	4	1610202-BLK1	NA	
	-1.07	1.99	-1.72	-2.84	-3.61	-4.27	NA	50.00
		5	6	7	8			
		-1.11	-3.47	0.46				
		1	2	3	4	1610185-BLK1	NA	
Beryllium	0.01	0.05	0.06	0.10	0.03	0.05	NA	5.00
		5	6	7	8			
		0.05	0.07	0.04				
		1	2	3	4	1610200-BLK1	NA	
	0.01	0.05	0.06	0.10	0.03	0.01	NA	5.00
		5	6	7	8			
		0.05	0.07	0.04				
		1	2	3	4	1610202-BLK1	NA	
	0.01	0.05	0.06	0.10	0.03	0.02	NA	5.00
		5	6	7	8			
		0.05	0.07	0.04				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610204 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Beryllium	0.01	1	2	3	4	1610191-BLK1	NA	5.00
		0.05	0.06	0.10	0.03	0.06	NA	
		5	6	7	8			
		0.05	0.07	0.04				
	0.01	1	2	3	4	1610196-BLK1	NA	5.00
		0.05	0.06	0.10	0.03	-0.05	NA	
		5	6	7	8			
		0.05	0.07	0.04				
Calcium	0.53	1	2	3	4	1610191-BLK1	NA	250.00
		0.95	1.27	3.18	1.20	-3.63	NA	
		5	6	7	8			
		2.25	2.00	1.45				
	0.53	1	2	3	4	1610200-BLK1	NA	250.00
		0.95	1.27	3.18	1.20	0.39	NA	
		5	6	7	8			
		2.25	2.00	1.45				
	0.53	1	2	3	4	1610185-BLK1	NA	250.00
		0.95	1.27	3.18	1.20	-2.80	NA	
		5	6	7	8			
		2.25	2.00	1.45				
	0.53	1	2	3	4	1610202-BLK1	NA	250.00
		0.95	1.27	3.18	1.20	1.41	NA	
		5	6	7	8			
		2.25	2.00	1.45				
	0.53	1	2	3	4	1610196-BLK1	NA	250.00
		0.95	1.27	3.18	1.20	1.84	NA	
		5	6	7	8			
		2.25	2.00	1.45				
Iron	-5.09	1	2	3	4	1610185-BLK1	NA	250.00
		13.35	2.27	9.53	28.16	38.54	NA	
		5	6	7	8			
		16.48	-1.15	-8.96				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610204 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Iron	-5.09	1	2	3	4	1610200-BLK1	NA	250.00
		13.35	2.27	9.53	28.16	8.71	NA	
		5	6	7	8			
		16.48	-1.15	-8.96				
	-5.09	1	2	3	4	1610191-BLK1	NA	250.00
		13.35	2.27	9.53	28.16	4.97	NA	
		5	6	7	8			
		16.48	-1.15	-8.96				
	-5.09	1	2	3	4	1610196-BLK1	NA	250.00
		13.35	2.27	9.53	28.16	7.24	NA	
		5	6	7	8			
		16.48	-1.15	-8.96				
	-5.09	1	2	3	4	1610202-BLK1	NA	250.00
		13.35	2.27	9.53	28.16	0.63	NA	
		5	6	7	8			
		16.48	-1.15	-8.96				
Magnesium	1.12	1	2	3	4	1610191-BLK1	NA	250.00
		1.55	0.73	1.91	1.46	-0.41	NA	
		5	6	7	8			
		0.65	1.51	1.45				
	1.12	1	2	3	4	1610200-BLK1	NA	250.00
		1.55	0.73	1.91	1.46	0.19	NA	
		5	6	7	8			
		0.65	1.51	1.45				
	1.12	1	2	3	4	1610202-BLK1	NA	250.00
		1.55	0.73	1.91	1.46	0.19	NA	
		5	6	7	8			
		0.65	1.51	1.45				
	1.12	1	2	3	4	1610196-BLK1	NA	250.00
		1.55	0.73	1.91	1.46	1.88	NA	
		5	6	7	8			
		0.65	1.51	1.45				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610204 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Magnesium	1.12	1	2	3	4	1610185-BLK1	NA	250.00
		1.55	0.73	1.91	1.46	0.42	NA	
		5	6	7	8			
		0.65	1.51	1.45				
Manganese	0.04	1	2	3	4	1610202-BLK1	NA	5.00
		-0.03	-0.01	0.02	0.01	-0.02	NA	
		5	6	7	8			
		0.06	0.06	0.03				
	0.04	1	2	3	4	1610196-BLK1	NA	5.00
		-0.03	-0.01	0.02	0.01	0.00	NA	
		5	6	7	8			
		0.06	0.06	0.03				
	0.04	1	2	3	4	1610200-BLK1	NA	5.00
		-0.03	-0.01	0.02	0.01	-0.04	NA	
		5	6	7	8			
		0.06	0.06	0.03				
	0.04	1	2	3	4	1610185-BLK1	NA	5.00
		-0.03	-0.01	0.02	0.01	0.00	NA	
		5	6	7	8			
		0.06	0.06	0.03				
	0.04	1	2	3	4	1610191-BLK1	NA	5.00
		-0.03	-0.01	0.02	0.01	-0.03	NA	
		5	6	7	8			
		0.06	0.06	0.03				
Strontium	0.00	1	2	3	4	1610191-BLK1	NA	10.00
		-0.08	0.01	0.05	-0.03	0.01	NA	
		5	6	7	8			
		-0.02	0.04	0.01				
	0.00	1	2	3	4	1610196-BLK1	NA	10.00
		-0.08	0.01	0.05	-0.03	0.04	NA	
		5	6	7	8			
		-0.02	0.04	0.01				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610204 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Strontium	0.00	1	2	3	4	1610202-BLK1	NA	10.00
		-0.08	0.01	0.05	-0.03	-0.06	NA	
		5	6	7	8			
		-0.02	0.04	0.01				
	0.00	1	2	3	4	1610185-BLK1	NA	10.00
		-0.08	0.01	0.05	-0.03	-0.06	NA	
		5	6	7	8			
		-0.02	0.04	0.01				
	0.00	1	2	3	4	1610200-BLK1	NA	10.00
		-0.08	0.01	0.05	-0.03	0.05	NA	
		5	6	7	8			
		-0.02	0.04	0.01				
Zinc	-0.22	1	2	3	4	1610191-BLK1	NA	20.00
		-0.55	0.09	0.05	0.07	-0.93	NA	
		5	6	7	8			
		-0.39	-0.17	-0.72				
	-0.22	1	2	3	4	1610202-BLK1	NA	20.00
		-0.55	0.09	0.05	0.07	-0.20	NA	
		5	6	7	8			
		-0.39	-0.17	-0.72				
	-0.22	1	2	3	4	1610185-BLK1	NA	20.00
		-0.55	0.09	0.05	0.07	-0.36	NA	
		5	6	7	8			
		-0.39	-0.17	-0.72				
	-0.22	1	2	3	4	1610196-BLK1	NA	20.00
		-0.55	0.09	0.05	0.07	-1.41	NA	
		5	6	7	8			
		-0.39	-0.17	-0.72				
	-0.22	1	2	3	4	1610200-BLK1	NA	20.00
		-0.55	0.09	0.05	0.07	-1.01	NA	
		5	6	7	8			
		-0.39	-0.17	-0.72				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Diss. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610204 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Silica (SiO2)	1.62	1	2	3	4	1610202-BLK1	NA	1,000.00
		-4.32	0.33	-3.77	-2.99	40.16	NA	
		5	6	7	8			
		-2.02	-3.45	-4.40				
	1.62	1	2	3	4	1610185-BLK1	NA	1,000.00
		-4.32	0.33	-3.77	-2.99	-1.14	NA	
		5	6	7	8			
		-2.02	-3.45	-4.40				
	1.62	1	2	3	4	1610191-BLK1	NA	1,000.00
		-4.32	0.33	-3.77	-2.99	-4.23	NA	
		5	6	7	8			
		-2.02	-3.45	-4.40				
	1.62	1	2	3	4	1610196-BLK1	NA	1,000.00
		-4.32	0.33	-3.77	-2.99	-3.96	NA	
		5	6	7	8			
		-2.02	-3.45	-4.40				
	1.62	1	2	3	4	1610200-BLK1	NA	1,000.00
		-4.32	0.33	-3.77	-2.99	33.34	NA	
		5	6	7	8			
		-2.02	-3.45	-4.40				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	-0.11	1	2	3	4	1610201-BLK1	NA	2.00
		-0.12	-0.17	-0.09	-0.06	-0.08	NA	
		5	6	7	8			
		-0.07	-0.05	-0.11				
	-0.11	1	2	3	4	1610197-BLK1	NA	2.00
		-0.12	-0.17	-0.09	-0.06	-0.13	NA	
		5	6	7	8			
		-0.07	-0.05	-0.11				
	-0.11	1	2	3	4	1610186-BLK1	NA	2.00
		-0.12	-0.17	-0.09	-0.06	-0.26	NA	
		5	6	7	8			
		-0.07	-0.05	-0.11				
	-0.11	1	2	3	4	1610203-BLK1	NA	2.00
		-0.12	-0.17	-0.09	-0.06	-0.04	NA	
		5	6	7	8			
		-0.07	-0.05	-0.11				
	-0.11	1	2	3	4	1610192-BLK1	NA	2.00
		-0.12	-0.17	-0.09	-0.06	-0.24	NA	
		5	6	7	8			
		-0.07	-0.05	-0.11				
Nickel	0.01	1	2	3	4	1610192-BLK1	NA	1.00
		0.00	0.00	0.02	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00	0.00				
	0.01	1	2	3	4	1610186-BLK1	NA	1.00
		0.00	0.00	0.02	0.00	-0.02	NA	
		5	6	7	8			
		0.00	0.00	0.00				
	0.01	1	2	3	4	1610203-BLK1	NA	1.00
		0.00	0.00	0.02	0.00	-0.03	NA	
		5	6	7	8			
		0.00	0.00	0.00				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nickel	0.01	1	2	3	4	1610201-BLK1	NA	1.00
		0.00	0.00	0.02	0.00	0.02	NA	
		5	6	7	8			
		0.00	0.00	0.00				
	0.01	1	2	3	4	1610197-BLK1	NA	1.00
		0.00	0.00	0.02	0.00	-0.02	NA	
		5	6	7	8			
		0.00	0.00	0.00				
Copper	-0.02	1	2	3	4	1610192-BLK1	NA	1.00
		0.00	-0.01	0.01	-0.01	-0.09	NA	
		5	6	7	8			
		-0.02	-0.01	-0.02				
	-0.02	1	2	3	4	1610186-BLK1	NA	1.00
		0.00	-0.01	0.01	-0.01	-0.08	NA	
		5	6	7	8			
		-0.02	-0.01	-0.02				
	-0.02	1	2	3	4	1610197-BLK1	NA	1.00
		0.00	-0.01	0.01	-0.01	-0.10	NA	
		5	6	7	8			
		-0.02	-0.01	-0.02				
	-0.02	1	2	3	4	1610201-BLK1	NA	1.00
		0.00	-0.01	0.01	-0.01	-0.06	NA	
		5	6	7	8			
		-0.02	-0.01	-0.02				
	-0.02	1	2	3	4	1610203-BLK1	NA	1.00
		0.00	-0.01	0.01	-0.01	-0.05	NA	
		5	6	7	8			
		-0.02	-0.01	-0.02				
Arsenic	-0.03	1	2	3	4	1610186-BLK1	NA	2.00
		-0.01	-0.03	-0.06	0.02	0.02	NA	
		5	6	7	8			
		0.00	-0.06	0.01				

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Arsenic	-0.03	1	2	3	4	1610203-BLK1	NA	2.00
		-0.01	-0.03	-0.06	0.02	-0.03	NA	
		5	6	7	8			
		0.00	-0.06	0.01				
	-0.03	1	2	3	4	1610201-BLK1	NA	2.00
		-0.01	-0.03	-0.06	0.02	-0.03	NA	
		5	6	7	8			
		0.00	-0.06	0.01				
	-0.03	1	2	3	4	1610197-BLK1	NA	2.00
		-0.01	-0.03	-0.06	0.02	-0.01	NA	
		5	6	7	8			
		0.00	-0.06	0.01				
	-0.03	1	2	3	4	1610192-BLK1	NA	2.00
		-0.01	-0.03	-0.06	0.02	0.06	NA	
		5	6	7	8			
		0.00	-0.06	0.01				
Selenium	-0.02	1	2	3	4	1610201-BLK1	NA	2.00
		-0.08	0.04	-0.12	-0.07	-0.19	NA	
		5	6	7	8			
		-0.04	-0.09	0.00				
	-0.02	1	2	3	4	1610197-BLK1	NA	2.00
		-0.08	0.04	-0.12	-0.07	-0.14	NA	
		5	6	7	8			
		-0.04	-0.09	0.00				
	-0.02	1	2	3	4	1610192-BLK1	NA	2.00
		-0.08	0.04	-0.12	-0.07	0.09	NA	
		5	6	7	8			
		-0.04	-0.09	0.00				
	-0.02	1	2	3	4	1610203-BLK1	NA	2.00
		-0.08	0.04	-0.12	-0.07	0.00	NA	
		5	6	7	8			
		-0.04	-0.09	0.00				

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Selenium	-0.02	1	2	3	4	1610186-BLK1	NA	2.00
		-0.08	0.04	-0.12	-0.07	0.11	NA	
		5	6	7	8			
		-0.04	-0.09	0.00				
Silver	0.01	1	2	3	4	1610192-BLK1	NA	1.00
		0.01	0.00	0.01	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01	0.01				
	0.01	1	2	3	4	1610197-BLK1	NA	1.00
		0.01	0.00	0.01	0.01	0.01	NA	
		5	6	7	8			
		0.01	0.01	0.01				
	0.01	1	2	3	4	1610203-BLK1	NA	1.00
		0.01	0.00	0.01	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01	0.01				
	0.01	1	2	3	4	1610186-BLK1	NA	1.00
		0.01	0.00	0.01	0.01	0.01	NA	
		5	6	7	8			
		0.01	0.01	0.01				
	0.01	1	2	3	4	1610201-BLK1	NA	1.00
		0.01	0.00	0.01	0.01	0.00	NA	
		5	6	7	8			
		0.01	0.01	0.01				
Cadmium	0.00	1	2	3	4	1610201-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.01	0.00				
	0.00	1	2	3	4	1610192-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.01	0.00				

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.00	1	2	3	4	1610203-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.01	0.00				
	0.00	1	2	3	4	1610186-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.01	0.00				
	0.00	1	2	3	4	1610197-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.01	0.00				
Antimony	0.12	1	2	3	4	1610186-BLK1	NA	1.00
		0.17	0.16	0.16	0.17	0.13	NA	
		5	6	7	8			
		0.16	0.16	0.17				
	0.12	1	2	3	4	1610201-BLK1	NA	1.00
		0.17	0.16	0.16	0.17	0.05	NA	
		5	6	7	8			
		0.16	0.16	0.17				
	0.12	1	2	3	4	1610192-BLK1	NA	1.00
		0.17	0.16	0.16	0.17	0.06	NA	
		5	6	7	8			
		0.16	0.16	0.17				
	0.12	1	2	3	4	1610197-BLK1	NA	1.00
		0.17	0.16	0.16	0.17	0.13	NA	
		5	6	7	8			
		0.16	0.16	0.17				
	0.12	1	2	3	4	1610203-BLK1	NA	1.00
		0.17	0.16	0.16	0.17	0.07	NA	
		5	6	7	8			
		0.16	0.16	0.17				

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Thallium	0.00	1	2	3	4	1610186-BLK1	NA	2.00
		0.00	0.00	0.00	-0.01	-0.03	NA	
		5	6	7	8			
		-0.01	0.00	0.00				
	0.00	1	2	3	4	1610201-BLK1	NA	2.00
		0.00	0.00	0.00	-0.01	-0.03	NA	
		5	6	7	8			
		-0.01	0.00	0.00				
	0.00	1	2	3	4	1610192-BLK1	NA	2.00
		0.00	0.00	0.00	-0.01	-0.05	NA	
		5	6	7	8			
		-0.01	0.00	0.00				
	0.00	1	2	3	4	1610203-BLK1	NA	2.00
		0.00	0.00	0.00	-0.01	-0.03	NA	
		5	6	7	8			
		-0.01	0.00	0.00				
	0.00	1	2	3	4	1610197-BLK1	NA	2.00
		0.00	0.00	0.00	-0.01	-0.02	NA	
		5	6	7	8			
		-0.01	0.00	0.00				
Lead	0.00	1	2	3	4	1610203-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00	0.00				
	0.00	1	2	3	4	1610186-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.00	0.00				
	0.00	1	2	3	4	1610201-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00	0.00				

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Diss. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610205 **Dissolved** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Lead	0.00	1	2	3	4	1610192-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	-0.01	NA	
		5	6	7	8			
		0.00	0.00	0.00				
	0.00	1	2	3	4	1610197-BLK1	NA	0.20
		0.00	0.00	0.00	0.00	0.00	NA	
		5	6	7	8			
		0.00	0.00	0.00				

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610210 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Aluminum	0.47	1	2	3	4	1610184-BLK1	NA	50.00
		0.27	3.37	-1.20	0.43	1.97	NA	
		5	6	7	8			
		-0.10	2.60	-0.66	1.09			
	0.47	1	2	3	4	1610175-BLK1	NA	50.00
		0.27	3.37	-1.20	0.43	3.93	NA	
		5	6	7	8			
		-0.10	2.60	-0.66	1.09			
	0.47	1	2	3	4	1610178-BLK1	NA	50.00
		0.27	3.37	-1.20	0.43	4.27	NA	
		5	6	7	8			
		-0.10	2.60	-0.66	1.09			
	0.47	1	2	3	4	1610176-BLK1	NA	50.00
		0.27	3.37	-1.20	0.43	1.82	NA	
		5	6	7	8			
		-0.10	2.60	-0.66	1.09			
	0.47	1	2	3	4	1610177-BLK1	NA	50.00
		0.27	3.37	-1.20	0.43	0.19	NA	
		5	6	7	8			
		-0.10	2.60	-0.66	1.09			
Beryllium	0.05	1	2	3	4	1610178-BLK1	NA	5.00
		0.10	0.13	0.08	0.09	-0.02	NA	
		5	6	7	8			
		0.09	0.09	0.10	0.08			
	0.05	1	2	3	4	1610176-BLK1	NA	5.00
		0.10	0.13	0.08	0.09	0.00	NA	
		5	6	7	8			
		0.09	0.09	0.10	0.08			
	0.05	1	2	3	4	1610184-BLK1	NA	5.00
		0.10	0.13	0.08	0.09	-0.01	NA	
		5	6	7	8			
		0.09	0.09	0.10	0.08			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610210 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Beryllium	0.05	1	2	3	4	1610177-BLK1	NA	5.00
		0.10	0.13	0.08	0.09	0.03	NA	
		5	6	7	8			
		0.09	0.09	0.10	0.08			
	0.05	1	2	3	4	1610175-BLK1	NA	5.00
		0.10	0.13	0.08	0.09	0.02	NA	
		5	6	7	8			
		0.09	0.09	0.10	0.08			
Calcium	-0.07	1	2	3	4	1610175-BLK1	NA	250.00
		2.30	2.20	0.44	0.88	28.09	NA	
		5	6	7	8			
		-0.85	1.99	2.82	2.34			
	-0.07	1	2	3	4	1610178-BLK1	NA	250.00
		2.30	2.20	0.44	0.88	1.18	NA	
		5	6	7	8			
		-0.85	1.99	2.82	2.34			
	-0.07	1	2	3	4	1610184-BLK1	NA	250.00
		2.30	2.20	0.44	0.88	0.92	NA	
		5	6	7	8			
		-0.85	1.99	2.82	2.34			
	-0.07	1	2	3	4	1610177-BLK1	NA	250.00
		2.30	2.20	0.44	0.88	0.18	NA	
		5	6	7	8			
		-0.85	1.99	2.82	2.34			
	-0.07	1	2	3	4	1610176-BLK1	NA	250.00
		2.30	2.20	0.44	0.88	1.56	NA	
		5	6	7	8			
		-0.85	1.99	2.82	2.34			
Iron	-16.07	1	2	3	4	1610184-BLK1	NA	250.00
		12.00	4.81	15.34	14.39	8.33	NA	
		5	6	7	8			
		0.94	-5.55	0.97	3.13			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610210 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Iron	-16.07	1	2	3	4	1610177-BLK1	NA	250.00
		12.00	4.81	15.34	14.39	-9.70	NA	
		5	6	7	8			
		0.94	-5.55	0.97	3.13			
	-16.07	1	2	3	4	1610176-BLK1	NA	250.00
		12.00	4.81	15.34	14.39	9.05	NA	
		5	6	7	8			
		0.94	-5.55	0.97	3.13			
	-16.07	1	2	3	4	1610178-BLK1	NA	250.00
		12.00	4.81	15.34	14.39	20.36	NA	
		5	6	7	8			
		0.94	-5.55	0.97	3.13			
	-16.07	1	2	3	4	1610175-BLK1	NA	250.00
		12.00	4.81	15.34	14.39	40.39	NA	
		5	6	7	8			
		0.94	-5.55	0.97	3.13			
Magnesium	0.57	1	2	3	4	1610184-BLK1	NA	250.00
		0.09	1.07	0.80	1.46	-1.23	NA	
		5	6	7	8			
		1.44	1.72	1.32	1.42			
	0.57	1	2	3	4	1610175-BLK1	NA	250.00
		0.09	1.07	0.80	1.46	11.64	NA	
		5	6	7	8			
		1.44	1.72	1.32	1.42			
	0.57	1	2	3	4	1610176-BLK1	NA	250.00
		0.09	1.07	0.80	1.46	-0.86	NA	
		5	6	7	8			
		1.44	1.72	1.32	1.42			
	0.57	1	2	3	4	1610177-BLK1	NA	250.00
		0.09	1.07	0.80	1.46	-1.08	NA	
		5	6	7	8			
		1.44	1.72	1.32	1.42			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610210 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Magnesium	0.57	1	2	3	4	1610178-BLK1	NA	250.00
		0.09	1.07	0.80	1.46	-0.71	NA	
		5	6	7	8			
		1.44	1.72	1.32	1.42			
Manganese	0.04	1	2	3	4	1610184-BLK1	NA	5.00
		0.05	0.06	0.08	0.10	0.06	NA	
		5	6	7	8			
		0.07	0.11	0.09	0.07			
	0.04	1	2	3	4	1610177-BLK1	NA	5.00
		0.05	0.06	0.08	0.10	0.10	NA	
		5	6	7	8			
		0.07	0.11	0.09	0.07			
	0.04	1	2	3	4	1610175-BLK1	NA	5.00
		0.05	0.06	0.08	0.10	0.16	NA	
		5	6	7	8			
		0.07	0.11	0.09	0.07			
	0.04	1	2	3	4	1610178-BLK1	NA	5.00
		0.05	0.06	0.08	0.10	0.04	NA	
		5	6	7	8			
		0.07	0.11	0.09	0.07			
	0.04	1	2	3	4	1610176-BLK1	NA	5.00
		0.05	0.06	0.08	0.10	0.05	NA	
		5	6	7	8			
		0.07	0.11	0.09	0.07			
Silica (SiO2)	-0.86	1	2	3	4	1610178-BLK1	NA	1,000.00
		-4.91	-2.72	-3.88	-2.73	11.32	NA	
		5	6	7	8			
		-4.07	-6.76	-5.33	-4.82			
	-0.86	1	2	3	4	1610175-BLK1	NA	1,000.00
		-4.91	-2.72	-3.88	-2.73	10.58	NA	
		5	6	7	8			
		-4.07	-6.76	-5.33	-4.82			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610210 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Silica (SiO2)	-0.86	1	2	3	4	1610184-BLK1	NA	1,000.00
		-4.91	-2.72	-3.88	-2.73	10.26	NA	
		5	6	7	8			
		-4.07	-6.76	-5.33	-4.82			
	-0.86	1	2	3	4	1610176-BLK1	NA	1,000.00
		-4.91	-2.72	-3.88	-2.73	6.50	NA	
		5	6	7	8			
		-4.07	-6.76	-5.33	-4.82			
	-0.86	1	2	3	4	1610177-BLK1	NA	1,000.00
		-4.91	-2.72	-3.88	-2.73	6.46	NA	
		5	6	7	8			
		-4.07	-6.76	-5.33	-4.82			
Zinc	1.60	1	2	3	4	1610184-BLK1	NA	20.00
		2.52	3.10	0.66	1.37	1.20	NA	
		5	6	7	8			
		1.99	1.77	1.62	0.05			
	1.60	1	2	3	4	1610178-BLK1	NA	20.00
		2.52	3.10	0.66	1.37	-0.72	NA	
		5	6	7	8			
		1.99	1.77	1.62	0.05			
	1.60	1	2	3	4	1610176-BLK1	NA	20.00
		2.52	3.10	0.66	1.37	1.89	NA	
		5	6	7	8			
		1.99	1.77	1.62	0.05			
	1.60	1	2	3	4	1610175-BLK1	NA	20.00
		2.52	3.10	0.66	1.37	2.26	NA	
		5	6	7	8			
		1.99	1.77	1.62	0.05			
	1.60	1	2	3	4	1610177-BLK1	NA	20.00
		2.52	3.10	0.66	1.37	2.93	NA	
		5	6	7	8			
		1.99	1.77	1.62	0.05			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1610210 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Strontium	0.11	1	2	3	4	1610184-BLK1	NA	10.00
		0.04	0.06	0.04	0.08	-0.02	NA	
		5	6	7	8			
		0.06	0.09	0.06	0.07			
	0.11	1	2	3	4	1610177-BLK1	NA	10.00
		0.04	0.06	0.04	0.08	0.04	NA	
		5	6	7	8			
		0.06	0.09	0.06	0.07			
	0.11	1	2	3	4	1610176-BLK1	NA	10.00
		0.04	0.06	0.04	0.08	0.04	NA	
		5	6	7	8			
		0.06	0.09	0.06	0.07			
	0.11	1	2	3	4	1610178-BLK1	NA	10.00
		0.04	0.06	0.04	0.08	0.02	NA	
		5	6	7	8			
		0.06	0.09	0.06	0.07			
	0.11	1	2	3	4	1610175-BLK1	NA	10.00
		0.04	0.06	0.04	0.08	0.14	NA	
		5	6	7	8			
		0.06	0.09	0.06	0.07			

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TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	0.02	1	2	3	4	NA	1610175-BLK2	2.00
		-0.03	-0.07	-0.07	-0.02	NA	0.12	
		5	6	7	8			
		-0.05	-0.05	-0.04	-0.02			
	0.02	1	2	3	4	NA	1610176-BLK2	2.00
		-0.03	-0.07	-0.07	-0.02	NA	0.15	
		5	6	7	8			
		-0.05	-0.05	-0.04	-0.02			
	0.02	1	2	3	4	NA	1610177-BLK2	2.00
		-0.03	-0.07	-0.07	-0.02	NA	0.17	
		5	6	7	8			
		-0.05	-0.05	-0.04	-0.02			
	0.02	1	2	3	4	NA	1610184-BLK2	2.00
		-0.03	-0.07	-0.07	-0.02	NA	0.12	
		5	6	7	8			
		-0.05	-0.05	-0.04	-0.02			
	0.02	1	2	3	4	NA	1610178-BLK2	2.00
		-0.03	-0.07	-0.07	-0.02	NA	0.06	
		5	6	7	8			
		-0.05	-0.05	-0.04	-0.02			
Nickel	0.00	1	2	3	4	NA	1610175-BLK2	1.00
		-0.01	0.00	0.00	0.00	NA	0.04	
		5	6	7	8			
		-0.01	0.00	0.00	0.00			
	0.00	1	2	3	4	NA	1610177-BLK2	1.00
		-0.01	0.00	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01	0.00	0.00	0.00			
	0.00	1	2	3	4	NA	1610176-BLK2	1.00
		-0.01	0.00	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01	0.00	0.00	0.00			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nickel	0.00	1	2	3	4	NA	1610184-BLK2	1.00
		-0.01	0.00	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01	0.00	0.00	0.00			
	0.00	1	2	3	4	NA	1610178-BLK2	1.00
		-0.01	0.00	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01	0.00	0.00	0.00			
Copper	0.00	1	2	3	4	NA	1610177-BLK2	1.00
		-0.01	0.01	-0.02	-0.01	NA	-0.07	
		5	6	7	8			
		-0.03	-0.03	-0.02	-0.03			
	0.00	1	2	3	4	NA	1610178-BLK2	1.00
		-0.01	0.01	-0.02	-0.01	NA	-0.01	
		5	6	7	8			
		-0.03	-0.03	-0.02	-0.03			
	0.00	1	2	3	4	NA	1610184-BLK2	1.00
		-0.01	0.01	-0.02	-0.01	NA	-0.03	
		5	6	7	8			
		-0.03	-0.03	-0.02	-0.03			
	0.00	1	2	3	4	NA	1610176-BLK2	1.00
		-0.01	0.01	-0.02	-0.01	NA	-0.01	
		5	6	7	8			
		-0.03	-0.03	-0.02	-0.03			
	0.00	1	2	3	4	NA	1610175-BLK2	1.00
		-0.01	0.01	-0.02	-0.01	NA	-0.06	
		5	6	7	8			
		-0.03	-0.03	-0.02	-0.03			
Arsenic	0.05	1	2	3	4	NA	1610175-BLK2	2.00
		0.02	-0.01	-0.03	0.02	NA	-0.02	
		5	6	7	8			
		0.00	0.00	-0.06	-0.04			

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Arsenic	0.05	1	2	3	4	NA	1610177-BLK2	2.00
		0.02	-0.01	-0.03	0.02	NA	-0.23	
		5	6	7	8			
		0.00	0.00	-0.06	-0.04			
	0.05	1	2	3	4	NA	1610184-BLK2	2.00
		0.02	-0.01	-0.03	0.02	NA	-0.24	
		5	6	7	8			
		0.00	0.00	-0.06	-0.04			
	0.05	1	2	3	4	NA	1610176-BLK2	2.00
		0.02	-0.01	-0.03	0.02	NA	-0.09	
		5	6	7	8			
		0.00	0.00	-0.06	-0.04			
	0.05	1	2	3	4	NA	1610178-BLK2	2.00
		0.02	-0.01	-0.03	0.02	NA	-0.06	
		5	6	7	8			
		0.00	0.00	-0.06	-0.04			
Selenium	0.07	1	2	3	4	NA	1610176-BLK2	2.00
		0.04	-0.07	0.05	-0.12	NA	-0.06	
		5	6	7	8			
		0.09	-0.09	0.07	0.07			
	0.07	1	2	3	4	NA	1610178-BLK2	2.00
		0.04	-0.07	0.05	-0.12	NA	0.09	
		5	6	7	8			
		0.09	-0.09	0.07	0.07			
	0.07	1	2	3	4	NA	1610184-BLK2	2.00
		0.04	-0.07	0.05	-0.12	NA	0.09	
		5	6	7	8			
		0.09	-0.09	0.07	0.07			
	0.07	1	2	3	4	NA	1610177-BLK2	2.00
		0.04	-0.07	0.05	-0.12	NA	-0.20	
		5	6	7	8			
		0.09	-0.09	0.07	0.07			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Selenium	0.07	1	2	3	4	NA	1610175-BLK2	2.00
		0.04	-0.07	0.05	-0.12	NA	0.06	
		5	6	7	8			
		0.09	-0.09	0.07	0.07			
Silver	0.01	1	2	3	4	NA	1610177-BLK2	1.00
		0.00	0.01	0.01	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.01	1	2	3	4	NA	1610175-BLK2	1.00
		0.00	0.01	0.01	0.00	NA	0.01	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.01	1	2	3	4	NA	1610176-BLK2	1.00
		0.00	0.01	0.01	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.01	1	2	3	4	NA	1610184-BLK2	1.00
		0.00	0.01	0.01	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.01	1	2	3	4	NA	1610178-BLK2	1.00
		0.00	0.01	0.01	0.00	NA	0.01	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
Cadmium	0.00	1	2	3	4	NA	1610178-BLK2	0.20
		0.00	0.00	0.01	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	-0.01			
	0.00	1	2	3	4	NA	1610184-BLK2	0.20
		0.00	0.00	0.01	0.00	NA	0.01	
		5	6	7	8			
		0.00	0.00	0.00	-0.01			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.00	1	2	3	4	NA	1610175-BLK2	0.20
		0.00	0.00	0.01	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	-0.01			
	0.00	1	2	3	4	NA	1610177-BLK2	0.20
		0.00	0.00	0.01	0.00	NA	-0.01	
		5	6	7	8			
		0.00	0.00	0.00	-0.01			
	0.00	1	2	3	4	NA	1610176-BLK2	0.20
		0.00	0.00	0.01	0.00	NA	-0.01	
		5	6	7	8			
		0.00	0.00	0.00	-0.01			
Antimony	0.10	1	2	3	4	NA	1610177-BLK2	1.00
		0.16	0.14	0.14	0.14	NA	0.03	
		5	6	7	8			
		0.15	0.14	0.15	0.15			
	0.10	1	2	3	4	NA	1610175-BLK2	1.00
		0.16	0.14	0.14	0.14	NA	0.01	
		5	6	7	8			
		0.15	0.14	0.15	0.15			
	0.10	1	2	3	4	NA	1610178-BLK2	1.00
		0.16	0.14	0.14	0.14	NA	0.02	
		5	6	7	8			
		0.15	0.14	0.15	0.15			
	0.10	1	2	3	4	NA	1610184-BLK2	1.00
		0.16	0.14	0.14	0.14	NA	0.03	
		5	6	7	8			
		0.15	0.14	0.15	0.15			
	0.10	1	2	3	4	NA	1610176-BLK2	1.00
		0.16	0.14	0.14	0.14	NA	0.02	
		5	6	7	8			
		0.15	0.14	0.15	0.15			

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Thallium	0.01	1	2	3	4	NA	1610176-BLK2	2.00
		0.29	0.07	0.04	0.35	NA	0.00	
		5	6	7	8			
		0.09	0.07	0.29	0.10			
	0.01	1	2	3	4	NA	1610177-BLK2	2.00
		0.29	0.07	0.04	0.35	NA	0.02	
		5	6	7	8			
		0.09	0.07	0.29	0.10			
	0.01	1	2	3	4	NA	1610175-BLK2	2.00
		0.29	0.07	0.04	0.35	NA	-0.02	
		5	6	7	8			
		0.09	0.07	0.29	0.10			
	0.01	1	2	3	4	NA	1610178-BLK2	2.00
		0.29	0.07	0.04	0.35	NA	-0.05	
		5	6	7	8			
		0.09	0.07	0.29	0.10			
	0.01	1	2	3	4	NA	1610184-BLK2	2.00
		0.29	0.07	0.04	0.35	NA	-0.04	
		5	6	7	8			
		0.09	0.07	0.29	0.10			
Lead	0.00	1	2	3	4	NA	1610184-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	-0.01	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.00	1	2	3	4	NA	1610177-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.00	1	2	3	4	NA	1610176-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.01	
		5	6	7	8			
		0.00	0.00	0.00	0.00			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1610211 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Lead	0.00	1	2	3	4	NA	1610178-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	-0.01	
		5	6	7	8			
		0.00	0.00	0.00	0.00			
	0.00	1	2	3	4	NA	1610175-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.00	
		5	6	7	8			
		0.00	0.00	0.00	0.00			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1611011 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Aluminum	1.71	1	2	3	4	1610175-BLK1	NA	50.00
		1.40	1.23	0.93	1.76	3.93	NA	
		5	6	7	8			
		0.87						
	1.71	1	2	3	4	1610177-BLK1	NA	50.00
		1.40	1.23	0.93	1.76	0.19	NA	
		5	6	7	8			
		0.87						
	1.71	1	2	3	4	1610178-BLK1	NA	50.00
		1.40	1.23	0.93	1.76	4.27	NA	
		5	6	7	8			
		0.87						
	1.71	1	2	3	4	1610184-BLK1	NA	50.00
		1.40	1.23	0.93	1.76	1.97	NA	
		5	6	7	8			
		0.87						
	1.71	1	2	3	4	1610176-BLK1	NA	50.00
		1.40	1.23	0.93	1.76	1.82	NA	
		5	6	7	8			
		0.87						
Beryllium	0.07	1	2	3	4	1610178-BLK1	NA	5.00
		0.02	0.08	0.01	0.05	-0.02	NA	
		5	6	7	8			
		0.03						
	0.07	1	2	3	4	1610176-BLK1	NA	5.00
		0.02	0.08	0.01	0.05	0.00	NA	
		5	6	7	8			
		0.03						
	0.07	1	2	3	4	1610184-BLK1	NA	5.00
		0.02	0.08	0.01	0.05	-0.01	NA	
		5	6	7	8			
		0.03						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1611011 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Beryllium	0.07	1	2	3	4	1610177-BLK1	NA	5.00
		0.02	0.08	0.01	0.05	0.03	NA	
		5	6	7	8			
		0.03						
	0.07	1	2	3	4	1610175-BLK1	NA	5.00
		0.02	0.08	0.01	0.05	0.02	NA	
		5	6	7	8			
		0.03						
Calcium	-0.98	1	2	3	4	1610175-BLK1	NA	250.00
		0.22	-0.04	2.48	2.96	28.09	NA	
		5	6	7	8			
		1.08						
	-0.98	1	2	3	4	1610176-BLK1	NA	250.00
		0.22	-0.04	2.48	2.96	1.56	NA	
		5	6	7	8			
		1.08						
	-0.98	1	2	3	4	1610177-BLK1	NA	250.00
		0.22	-0.04	2.48	2.96	0.18	NA	
		5	6	7	8			
		1.08						
	-0.98	1	2	3	4	1610184-BLK1	NA	250.00
		0.22	-0.04	2.48	2.96	0.92	NA	
		5	6	7	8			
		1.08						
	-0.98	1	2	3	4	1610178-BLK1	NA	250.00
		0.22	-0.04	2.48	2.96	1.18	NA	
		5	6	7	8			
		1.08						
Iron	-6.09	1	2	3	4	1610178-BLK1	NA	250.00
		15.89	19.03	6.06	-12.21	20.36	NA	
		5	6	7	8			
		8.64						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1611011 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Iron	-6.09	1	2	3	4	1610176-BLK1	NA	250.00
		15.89	19.03	6.06	-12.21	9.05	NA	
		5	6	7	8			
		8.64						
	-6.09	1	2	3	4	1610175-BLK1	NA	250.00
		15.89	19.03	6.06	-12.21	40.39	NA	
		5	6	7	8			
		8.64						
	-6.09	1	2	3	4	1610177-BLK1	NA	250.00
		15.89	19.03	6.06	-12.21	-9.70	NA	
		5	6	7	8			
		8.64						
	-6.09	1	2	3	4	1610184-BLK1	NA	250.00
		15.89	19.03	6.06	-12.21	8.33	NA	
		5	6	7	8			
		8.64						
Magnesium	-0.60	1	2	3	4	1610177-BLK1	NA	250.00
		-0.36	0.48	0.14	1.16	-1.08	NA	
		5	6	7	8			
		0.72						
	-0.60	1	2	3	4	1610184-BLK1	NA	250.00
		-0.36	0.48	0.14	1.16	-1.23	NA	
		5	6	7	8			
		0.72						
	-0.60	1	2	3	4	1610176-BLK1	NA	250.00
		-0.36	0.48	0.14	1.16	-0.86	NA	
		5	6	7	8			
		0.72						
	-0.60	1	2	3	4	1610178-BLK1	NA	250.00
		-0.36	0.48	0.14	1.16	-0.71	NA	
		5	6	7	8			
		0.72						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1611011 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Magnesium	-0.60	1	2	3	4	1610175-BLK1	NA	250.00
		-0.36	0.48	0.14	1.16	11.64	NA	
		5	6	7	8			
		0.72						
Manganese	0.06	1	2	3	4	1610177-BLK1	NA	5.00
		0.05	0.04	0.02	0.04	0.10	NA	
		5	6	7	8			
		0.02						
	0.06	1	2	3	4	1610175-BLK1	NA	5.00
		0.05	0.04	0.02	0.04	0.16	NA	
		5	6	7	8			
		0.02						
	0.06	1	2	3	4	1610178-BLK1	NA	5.00
		0.05	0.04	0.02	0.04	0.04	NA	
		5	6	7	8			
		0.02						
	0.06	1	2	3	4	1610176-BLK1	NA	5.00
		0.05	0.04	0.02	0.04	0.05	NA	
		5	6	7	8			
		0.02						
	0.06	1	2	3	4	1610184-BLK1	NA	5.00
		0.05	0.04	0.02	0.04	0.06	NA	
		5	6	7	8			
		0.02						
Silica (SiO2)	5.01	1	2	3	4	1610175-BLK1	NA	1,000.00
		0.51	-0.40	-0.43	-2.90	10.58	NA	
		5	6	7	8			
		-0.77						
	5.01	1	2	3	4	1610178-BLK1	NA	1,000.00
		0.51	-0.40	-0.43	-2.90	11.32	NA	
		5	6	7	8			
		-0.77						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1611011 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Silica (SiO2)	5.01	1	2	3	4	1610177-BLK1	NA	1,000.00
		0.51	-0.40	-0.43	-2.90	6.46	NA	
		5	6	7	8			
		-0.77						
	5.01	1	2	3	4	1610184-BLK1	NA	1,000.00
		0.51	-0.40	-0.43	-2.90	10.26	NA	
		5	6	7	8			
		-0.77						
	5.01	1	2	3	4	1610176-BLK1	NA	1,000.00
		0.51	-0.40	-0.43	-2.90	6.50	NA	
		5	6	7	8			
		-0.77						
Zinc	1.20	1	2	3	4	1610176-BLK1	NA	20.00
		1.95	0.98	1.33	0.88	1.89	NA	
		5	6	7	8			
		1.32						
	1.20	1	2	3	4	1610175-BLK1	NA	20.00
		1.95	0.98	1.33	0.88	2.26	NA	
		5	6	7	8			
		1.32						
	1.20	1	2	3	4	1610177-BLK1	NA	20.00
		1.95	0.98	1.33	0.88	2.93	NA	
		5	6	7	8			
		1.32						
	1.20	1	2	3	4	1610184-BLK1	NA	20.00
		1.95	0.98	1.33	0.88	1.20	NA	
		5	6	7	8			
		1.32						
	1.20	1	2	3	4	1610178-BLK1	NA	20.00
		1.95	0.98	1.33	0.88	-0.72	NA	
		5	6	7	8			
		1.32						

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Instrument: **ICPOE - PE Optima** Work Order: Nu C161005

Analytical Sequence: 1611011 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Strontium	0.04	1	2	3	4	1610175-BLK1	NA	10.00
		0.03	0.00	0.00	-0.01	0.14	NA	
		5	6	7	8			
		0.02						
	0.04	1	2	3	4	1610184-BLK1	NA	10.00
		0.03	0.00	0.00	-0.01	-0.02	NA	
		5	6	7	8			
		0.02						
	0.04	1	2	3	4	1610176-BLK1	NA	10.00
		0.03	0.00	0.00	-0.01	0.04	NA	
		5	6	7	8			
		0.02						
	0.04	1	2	3	4	1610178-BLK1	NA	10.00
		0.03	0.00	0.00	-0.01	0.02	NA	
		5	6	7	8			
		0.02						
	0.04	1	2	3	4	1610177-BLK1	NA	10.00
		0.03	0.00	0.00	-0.01	0.04	NA	
		5	6	7	8			
		0.02						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	-0.08	1	2	3	4	NA	1610176-BLK2	2.00
		-0.10	-0.10	-0.09	-0.07	NA	0.15	
		5	6	7	8			
		-0.08						
	-0.08	1	2	3	4	NA	1610175-BLK2	2.00
		-0.10	-0.10	-0.09	-0.07	NA	0.12	
		5	6	7	8			
		-0.08						
	-0.08	1	2	3	4	NA	1610184-BLK2	2.00
		-0.10	-0.10	-0.09	-0.07	NA	0.12	
		5	6	7	8			
		-0.08						
	-0.08	1	2	3	4	NA	1610178-BLK2	2.00
		-0.10	-0.10	-0.09	-0.07	NA	0.06	
		5	6	7	8			
		-0.08						
	-0.08	1	2	3	4	NA	1610177-BLK2	2.00
		-0.10	-0.10	-0.09	-0.07	NA	0.17	
		5	6	7	8			
		-0.08						
Nickel	0.00	1	2	3	4	NA	1610178-BLK2	1.00
		0.00	0.01	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01						
	0.00	1	2	3	4	NA	1610184-BLK2	1.00
		0.00	0.01	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01						
	0.00	1	2	3	4	NA	1610175-BLK2	1.00
		0.00	0.01	0.00	0.00	NA	0.04	
		5	6	7	8			
		-0.01						

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nickel	0.00	1	2	3	4	NA	1610177-BLK2	1.00
		0.00	0.01	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01						
	0.00	1	2	3	4	NA	1610176-BLK2	1.00
		0.00	0.01	0.00	0.00	NA	-0.03	
		5	6	7	8			
		-0.01						
Copper	0.01	1	2	3	4	NA	1610176-BLK2	1.00
		0.01	0.01	0.01	0.00	NA	-0.01	
		5	6	7	8			
		0.05						
	0.01	1	2	3	4	NA	1610177-BLK2	1.00
		0.01	0.01	0.01	0.00	NA	-0.07	
		5	6	7	8			
		0.05						
	0.01	1	2	3	4	NA	1610184-BLK2	1.00
		0.01	0.01	0.01	0.00	NA	-0.03	
		5	6	7	8			
		0.05						
	0.01	1	2	3	4	NA	1610175-BLK2	1.00
		0.01	0.01	0.01	0.00	NA	-0.06	
		5	6	7	8			
		0.05						
	0.01	1	2	3	4	NA	1610178-BLK2	1.00
		0.01	0.01	0.01	0.00	NA	-0.01	
		5	6	7	8			
		0.05						
Arsenic	0.08	1	2	3	4	NA	1610177-BLK2	2.00
		0.02	0.03	0.07	-0.06	NA	-0.23	
		5	6	7	8			
		0.03						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Arsenic	0.08	1	2	3	4	NA	1610184-BLK2	2.00
		0.02	0.03	0.07	-0.06	NA	-0.24	
		5	6	7	8			
		0.03						
	0.08	1	2	3	4	NA	1610176-BLK2	2.00
		0.02	0.03	0.07	-0.06	NA	-0.09	
		5	6	7	8			
		0.03						
	0.08	1	2	3	4	NA	1610178-BLK2	2.00
		0.02	0.03	0.07	-0.06	NA	-0.06	
		5	6	7	8			
		0.03						
	0.08	1	2	3	4	NA	1610175-BLK2	2.00
		0.02	0.03	0.07	-0.06	NA	-0.02	
		5	6	7	8			
		0.03						
Selenium	0.17	1	2	3	4	NA	1610175-BLK2	2.00
		0.16	0.05	0.14	0.03	NA	0.06	
		5	6	7	8			
		0.05						
	0.17	1	2	3	4	NA	1610176-BLK2	2.00
		0.16	0.05	0.14	0.03	NA	-0.06	
		5	6	7	8			
		0.05						
	0.17	1	2	3	4	NA	1610177-BLK2	2.00
		0.16	0.05	0.14	0.03	NA	-0.20	
		5	6	7	8			
		0.05						
	0.17	1	2	3	4	NA	1610184-BLK2	2.00
		0.16	0.05	0.14	0.03	NA	0.09	
		5	6	7	8			
		0.05						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Selenium	0.17	1	2	3	4	NA	1610178-BLK2	2.00
		0.16	0.05	0.14	0.03	NA	0.09	
		5	6	7	8			
		0.05						
Silver	0.01	1	2	3	4	NA	1610178-BLK2	1.00
		0.00	0.00	0.00	0.01	NA	0.01	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610177-BLK2	1.00
		0.00	0.00	0.00	0.01	NA	0.00	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610175-BLK2	1.00
		0.00	0.00	0.00	0.01	NA	0.01	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610176-BLK2	1.00
		0.00	0.00	0.00	0.01	NA	0.00	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610184-BLK2	1.00
		0.00	0.00	0.00	0.01	NA	0.00	
		5	6	7	8			
		0.00						
Cadmium	0.01	1	2	3	4	NA	1610178-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.00	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610176-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	-0.01	
		5	6	7	8			
		0.00						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.01	1	2	3	4	NA	1610177-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	-0.01	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610184-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.01	
		5	6	7	8			
		0.00						
	0.01	1	2	3	4	NA	1610175-BLK2	0.20
		0.00	0.00	0.00	0.00	NA	0.00	
		5	6	7	8			
		0.00						
Antimony	0.11	1	2	3	4	NA	1610178-BLK2	1.00
		0.16	0.16	0.15	0.16	NA	0.02	
		5	6	7	8			
		0.15						
	0.11	1	2	3	4	NA	1610177-BLK2	1.00
		0.16	0.16	0.15	0.16	NA	0.03	
		5	6	7	8			
		0.15						
	0.11	1	2	3	4	NA	1610175-BLK2	1.00
		0.16	0.16	0.15	0.16	NA	0.01	
		5	6	7	8			
		0.15						
	0.11	1	2	3	4	NA	1610176-BLK2	1.00
		0.16	0.16	0.15	0.16	NA	0.02	
		5	6	7	8			
		0.15						
	0.11	1	2	3	4	NA	1610184-BLK2	1.00
		0.16	0.16	0.15	0.16	NA	0.03	
		5	6	7	8			
		0.15						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Thallium	0.00	1	2	3	4	NA	1610176-BLK2	2.00
		0.18	0.03	0.02	0.10	NA	0.00	
		5	6	7	8			
		0.04						
	0.00	1	2	3	4	NA	1610177-BLK2	2.00
		0.18	0.03	0.02	0.10	NA	0.02	
		5	6	7	8			
		0.04						
	0.00	1	2	3	4	NA	1610175-BLK2	2.00
		0.18	0.03	0.02	0.10	NA	-0.02	
		5	6	7	8			
		0.04						
	0.00	1	2	3	4	NA	1610178-BLK2	2.00
		0.18	0.03	0.02	0.10	NA	-0.05	
		5	6	7	8			
		0.04						
	0.00	1	2	3	4	NA	1610184-BLK2	2.00
		0.18	0.03	0.02	0.10	NA	-0.04	
		5	6	7	8			
		0.04						
Lead	-0.01	1	2	3	4	NA	1610184-BLK2	0.20
		-0.01	-0.01	-0.01	-0.01	NA	-0.01	
		5	6	7	8			
		-0.01						
	-0.01	1	2	3	4	NA	1610177-BLK2	0.20
		-0.01	-0.01	-0.01	-0.01	NA	0.00	
		5	6	7	8			
		-0.01						
	-0.01	1	2	3	4	NA	1610176-BLK2	0.20
		-0.01	-0.01	-0.01	-0.01	NA	0.01	
		5	6	7	8			
		-0.01						

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611012 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Lead	-0.01	1	2	3	4	NA	1610178-BLK2	0.20
		-0.01	-0.01	-0.01	-0.01	NA	-0.01	
		5	6	7	8			
		-0.01						
	-0.01	1	2	3	4	NA	1610175-BLK2	0.20
		-0.01	-0.01	-0.01	-0.01	NA	0.00	
		5	6	7	8			
		-0.01						

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Chromium	0.02	1	2	3	4	NA	1610184-BLK2	2.00
		-0.08	-0.06			NA	0.12	
		5	6	7	8			
	0.02	1	2	3	4	NA	1610176-BLK2	2.00
		-0.08	-0.06			NA	0.15	
		5	6	7	8			
	0.02	1	2	3	4	NA	1610178-BLK2	2.00
		-0.08	-0.06			NA	0.06	
		5	6	7	8			
	0.02	1	2	3	4	NA	1610175-BLK2	2.00
		-0.08	-0.06			NA	0.12	
		5	6	7	8			
	0.02	1	2	3	4	NA	1610177-BLK2	2.00
		-0.08	-0.06			NA	0.17	
		5	6	7	8			
Nickel	0.00	1	2	3	4	NA	1610175-BLK2	1.00
		-0.02	-0.02			NA	0.04	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610177-BLK2	1.00
		-0.02	-0.02			NA	-0.03	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610176-BLK2	1.00
		-0.02	-0.02			NA	-0.03	
		5	6	7	8			

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TechLaw Inc., ESAT Region 8

INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Nickel	0.00	1	2	3	4	NA	1610184-BLK2	1.00
		-0.02	-0.02			NA	-0.03	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610178-BLK2	1.00
		-0.02	-0.02			NA	-0.03	
		5	6	7	8			
Copper	-0.02	1	2	3	4	NA	1610176-BLK2	1.00
		0.00	-0.01			NA	-0.01	
		5	6	7	8			
	-0.02	1	2	3	4	NA	1610177-BLK2	1.00
		0.00	-0.01			NA	-0.07	
		5	6	7	8			
	-0.02	1	2	3	4	NA	1610184-BLK2	1.00
		0.00	-0.01			NA	-0.03	
		5	6	7	8			
	-0.02	1	2	3	4	NA	1610175-BLK2	1.00
		0.00	-0.01			NA	-0.06	
		5	6	7	8			
	-0.02	1	2	3	4	NA	1610178-BLK2	1.00
		0.00	-0.01			NA	-0.01	
		5	6	7	8			
Arsenic	0.01	1	2	3	4	NA	1610178-BLK2	2.00
		-0.05	0.02			NA	-0.06	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Arsenic	0.01	1	2	3	4	NA	1610175-BLK2	2.00
		-0.05	0.02			NA	-0.02	
		5	6	7	8			
	0.01	1	2	3	4	NA	1610184-BLK2	2.00
		-0.05	0.02			NA	-0.24	
		5	6	7	8			
	0.01	1	2	3	4	NA	1610177-BLK2	2.00
		-0.05	0.02			NA	-0.23	
		5	6	7	8			
	0.01	1	2	3	4	NA	1610176-BLK2	2.00
		-0.05	0.02			NA	-0.09	
		5	6	7	8			
Selenium	-0.06	1	2	3	4	NA	1610177-BLK2	2.00
		-0.01	0.03			NA	-0.20	
		5	6	7	8			
	-0.06	1	2	3	4	NA	1610175-BLK2	2.00
		-0.01	0.03			NA	0.06	
		5	6	7	8			
	-0.06	1	2	3	4	NA	1610184-BLK2	2.00
		-0.01	0.03			NA	0.09	
		5	6	7	8			
	-0.06	1	2	3	4	NA	1610178-BLK2	2.00
		-0.01	0.03			NA	0.09	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Selenium	-0.06	1	2	3	4	NA	1610176-BLK2	2.00
		-0.01	0.03			NA	-0.06	
		5	6	7	8			
Silver	0.00	1	2	3	4	NA	1610177-BLK2	1.00
		0.00	0.00			NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610175-BLK2	1.00
		0.00	0.00			NA	0.01	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610176-BLK2	1.00
		0.00	0.00			NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610184-BLK2	1.00
		0.00	0.00			NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610178-BLK2	1.00
		0.00	0.00			NA	0.01	
		5	6	7	8			
Cadmium	0.00	1	2	3	4	NA	1610177-BLK2	0.20
		0.00	-0.01			NA	-0.01	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610176-BLK2	0.20
		0.00	-0.01			NA	-0.01	
		5	6	7	8			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Cadmium	0.00	1	2	3	4	NA	1610184-BLK2	0.20
		0.00	-0.01			NA	0.01	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610175-BLK2	0.20
		0.00	-0.01			NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610178-BLK2	0.20
		0.00	-0.01			NA	0.00	
		5	6	7	8			
Antimony	0.04	1	2	3	4	NA	1610178-BLK2	1.00
		0.09	0.10			NA	0.02	
		5	6	7	8			
	0.04	1	2	3	4	NA	1610184-BLK2	1.00
		0.09	0.10			NA	0.03	
		5	6	7	8			
	0.04	1	2	3	4	NA	1610176-BLK2	1.00
		0.09	0.10			NA	0.02	
		5	6	7	8			
	0.04	1	2	3	4	NA	1610175-BLK2	1.00
		0.09	0.10			NA	0.01	
		5	6	7	8			
	0.04	1	2	3	4	NA	1610177-BLK2	1.00
		0.09	0.10			NA	0.03	
		5	6	7	8			

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Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
Thallium	0.00	1	2	3	4	NA	1610176-BLK2	2.00
		-0.01	-0.01			NA	0.00	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610184-BLK2	2.00
		-0.01	-0.01			NA	-0.04	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610178-BLK2	2.00
		-0.01	-0.01			NA	-0.05	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610177-BLK2	2.00
		-0.01	-0.01			NA	0.02	
		5	6	7	8			
	0.00	1	2	3	4	NA	1610175-BLK2	2.00
		-0.01	-0.01			NA	-0.02	
		5	6	7	8			
Lead	-0.01	1	2	3	4	NA	1610175-BLK2	0.20
		-0.01	-0.01			NA	0.00	
		5	6	7	8			
	-0.01	1	2	3	4	NA	1610184-BLK2	0.20
		-0.01	-0.01			NA	-0.01	
		5	6	7	8			
	-0.01	1	2	3	4	NA	1610177-BLK2	0.20
		-0.01	-0.01			NA	0.00	
		5	6	7	8			

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INORGANIC ANALYSES DATA SHEET

Intial and Continuing Calibration Blanks

Analytical Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Instrument: **ICPMS-PE DRC-II** Work Order: Nu C161005

Analytical Sequence: 1611074 **Total Recoverable** Concentration Units: ug/L

Blank criteria = +/- 5x analyte MDL (+/- PQL)

Analyte	Initial Calibration Blank (1 & 2)	Continuing Calibration Blanks				Method Blank (Batch ID)		PQL
		1	2	3	4	NA	1610176-BLK2	
Lead	-0.01	-0.01	-0.01			NA	0.01	0.20
		5	6	7	8			
		1	2	3	4	NA	1610178-BLK2	
	-0.01	-0.01	-0.01			NA	-0.01	0.20
		5	6	7	8			

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

Mettler AT Method: EPA 310.1 Analysis Name: WC - Alkalinity

Sequence: 1610077 Work Order: C161005 Units: mg CaCO3 / L

Total Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Total Alkalinity					1			2			3	
				100	98.7	98.7	100	96.4	96.4	100	97.0	97.0
					4			5			6	
				100	96.7	96.7	100	97.7	97.7			
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

Mettler AT Method: EPA 310.1 Analysis Name: WC - Alkalinity

Sequence: 1610102 Work Order: C161005 Units: mg CaCO3 / L

Total Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Total Alkalinity					1			2			3	
				100	97.5	97.5	100	97.7	97.7	100	97.0	97.0
					4			5			6	
				100	97.0	97.0	100	97.0	97.0			
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ESAT Dionex IC Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography 2013

Sequence: 1610144 Work Order: C161005 Units: mg/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Chloride	40.0	40.1	100.3		1			2			3	
				40.0	39.9	99.8	40.0	40.0	100.0	40.0	40.4	101.0
					4			5			6	
					7			8			9	
Fluoride	4.00	4.1	102.5		1			2			3	
				4.00	4.1	102.5	4.00	4.1	102.5	4.00	4.1	102.5
					4			5			6	
					7			8			9	
Nitrate/Nitrite as N	20.0	20.1	100.5		1			2			3	
				20.0	20.0	100.0	20.0	20.0	100.0	20.0	20.2	101.0
					4			5			6	
					7			8			9	
Sulfate as SO4	100	101	101.0		1			2			3	
				100	101	101.0	100	101	101.0	100	101	101.0
					4			5			6	
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ESAT Dionex IC Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography 2013

Sequence: 1610145 Work Order: C161005 Units: mg/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Chloride	40.0	40.4	101.0		1			2			3	
				40.0	40.4	101.0	40.0	40.6	101.5	40.0	40.7	101.8
					4			5			6	
					7			8			9	
Fluoride	4.00	4.1	102.5		1			2			3	
				4.00	4.1	102.5	4.00	4.1	102.5	4.00	4.2	105.0
					4			5			6	
					7			8			9	
Nitrate/Nitrite as N	20.0	20.2	101.0		1			2			3	
				20.0	20.2	101.0	20.0	20.3	101.5	20.0	20.4	102.0
					4			5			6	
					7			8			9	
Sulfate as SO4	100	101	101.0		1			2			3	
				100	101	101.0	100	102	102.0	100	103	103.0
					4			5			6	
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ESAT Dionex IC Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography 2013

Sequence: 1610164 Work Order: C161005 Units: mg/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Chloride	40.0	40.5	101.3		1			2			3	
				40.0	40.2	100.5	40.0	40.4	101.0	40.0	40.2	100.5
					4			5			6	
					7			8			9	
Fluoride	4.00	4.1	102.5		1			2			3	
				4.00	4.1	102.5	4.00	4.1	102.5	4.00	4.0	100.0
					4			5			6	
					7			8			9	
Nitrate/Nitrite as N	20.0	20.3	101.5		1			2			3	
				20.0	20.1	100.5	20.0	20.1	100.5	20.0	20.0	100.0
					4			5			6	
					7			8			9	
Sulfate as SO4	100	102	102.0		1			2			3	
				100	101	101.0	100	101	101.0	100	101	101.0
					4			5			6	
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ESAT Dionex IC Method: EPA 300.0 Analysis Name: WC - Anions by Ion Chromatography 2013

Sequence: 1610165 Work Order: C161005 Units: mg/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Chloride	40.0	40.2	100.5		1			2			3	
				40.0	40.5	101.3	40.0	40.3	100.8	40.0	40.4	101.0
					4			5			6	
				40.0	40.4	101.0						
					7			8			9	
Fluoride	4.00	4.0	100.0		1			2			3	
				4.00	4.1	102.5	4.00	4.0	100.0	4.00	4.1	102.5
					4			5			6	
				4.00	4.1	102.5						
					7			8			9	
Nitrate/Nitrite as N	20.0	20.0	100.0		1			2			3	
				20.0	20.2	101.0	20.0	20.1	100.5	20.0	20.1	100.5
					4			5			6	
				20.0	20.2	101.0						
					7			8			9	
Sulfate as SO4	100	101	101.0		1			2			3	
				100	101	101.0	100	102	102.0	100	102	102.0
					4			5			6	
				100	102	102.0						
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

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TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Diss. Metals

Sequence: 1610195 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Aluminum	12500	12390	99.1		1			2			3	
				12500	12270	98.2	12500	12260	98.1	12500	11810	94.5
					4			5			6	
				12500	11990	95.9	12500	12210	97.7	12500	12100	96.8
					7			8			9	
Beryllium	500	513.1	102.6		1			2			3	
				500	505.9	101.2	500	519.0	103.8	500	499.0	99.8
					4			5			6	
				500	510.2	102.0	500	508.0	101.6	500	513.2	102.6
					7			8			9	
Calcium	12500	12540	100.3		1			2			3	
				12500	12370	99.0	12500	12760	102.1	12500	12260	98.1
					4			5			6	
				12500	12410	99.3	12500	12450	99.6	12500	12480	99.8
					7			8			9	
Iron	12500	12590	100.7		1			2			3	
				12500	12460	99.7	12500	12920	103.4	12500	12380	99.0
					4			5			6	
				12500	12600	100.8	12500	12830	102.6	12500	12770	102.2
					7			8			9	
Magnesium	12500	12440	99.5		1			2			3	
				12500	12350	98.8	12500	12520	100.2	12500	12050	96.4
					4			5			6	
				12500	12270	98.2	12500	12540	100.3	12500	12440	99.5
					7			8			9	
Manganese	1000	1024	102.4		1			2			3	
				1000	1020	102.0	1000	1036	103.6	1000	986.3	98.6
					4			5			6	
				1000	1014	101.4	1000	1018	101.8	1000	1020	102.0
					7			8			9	

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Diss. Metals

Sequence: 1610195 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Silica (SiO2)	10000	10020	100.2		1			2			3	
				10000	10090	100.9	10000	10340	103.4	10000	9788	97.9
					4			5			6	
				10000	10150	101.5	10000	10180	101.8	10000	10140	101.4
					7			8			9	
Strontium	500	497.3	99.5		1			2			3	
				500	504.4	100.9	500	507.0	101.4	500	484.4	96.9
					4			5			6	
				500	492.5	98.5	500	489.6	97.9	500	485.0	97.0
					7			8			9	
Zinc	2500	2579	103.2		1			2			3	
				2500	2568	102.7	2500	2640	105.6	2500	2556	102.2
					4			5			6	
				2500	2623	104.9	2500	2628	105.1	2500	2625	105.0
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Diss. Metals

Sequence: 1610199 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Antimony	50.0	49.9	99.8		1			2			3	
				50.0	45.4	90.8	50.0	45.8	91.6	50.0	45.8	91.6
					4			5			6	
				50.0	45.7	91.4	50.0	45.4	90.8	50.0	45.5	91.0
					7			8			9	
Arsenic	50.0	50.6	101.2		1			2			3	
				50.0	48.7	97.4	50.0	49.0	98.0	50.0	49.1	98.2
					4			5			6	
				50.0	49.6	99.2	50.0	49.4	98.8	50.0	49.4	98.8
					7			8			9	
Cadmium	50.0	50.9	101.8		1			2			3	
				50.0	49.7	99.4	50.0	49.6	99.2	50.0	50.1	100.2
					4			5			6	
				50.0	49.1	98.2	50.0	50.0	100.0	50.0	49.0	98.0
					7			8			9	
Chromium	50.0	48.3	96.6		1			2			3	
				50.0	49.0	98.0	50.0	48.7	97.4	50.0	48.7	97.4
					4			5			6	
				50.0	48.3	96.6	50.0	48.7	97.4	50.0	49.5	99.0
					7			8			9	
Copper	50.0	49.0	98.0		1			2			3	
				50.0	51.2	102.4	50.0	51.2	102.4	50.0	50.6	101.2
					4			5			6	
				50.0	50.3	100.6	50.0	51.2	102.4	50.0	51.9	103.8
					7			8			9	
Lead	50.0	47.1	94.2		1			2			3	
				50.0	50.8	101.6	50.0	51.5	103.0	50.0	52.0	104.0
					4			5			6	
				50.0	49.2	98.4	50.0	53.1	106.2	50.0	52.2	104.4
					7			8			9	

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Diss. Metals

Sequence: 1610199 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Nickel	50.0	48.6	97.2		1			2			3	
				50.0	50.8	101.6	50.0	50.6	101.2	50.0	50.1	100.2
					4			5			6	
				50.0	49.7	99.4	50.0	50.6	101.2	50.0	51.5	103.0
					7			8			9	
Selenium	50.0	53.3	106.6		1			2			3	
				50.0	52.5	105.0	50.0	52.4	104.8	50.0	53.2	106.4
					4			5			6	
				50.0	51.8	103.6	50.0	52.9	105.8	50.0	52.4	104.8
					7			8			9	
Silver	50.0	50.5	101.0		1			2			3	
				50.0	50.4	100.8	50.0	49.8	99.6	50.0	50.1	100.2
					4			5			6	
				50.0	49.6	99.2	50.0	49.4	98.8	50.0	49.4	98.8
					7			8			9	
Thallium	50.0	47.2	94.4		1			2			3	
				50.0	50.8	101.6	50.0	51.7	103.4	50.0	52.5	105.0
					4			5			6	
				50.0	50.0	100.0	50.0	52.1	104.2	50.0	51.9	103.8
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Diss. Metals

Sequence: 1610204 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Aluminum	12500	12300	98.4		1			2			3	
				12500	12370	99.0	12500	12360	98.9	12500	12390	99.1
					4			5			6	
				12500	12280	98.2	12500	12250	98.0	12500	12320	98.6
					7			8			9	
				12500	12470	99.8						
Beryllium	500	504.2	100.8		1			2			3	
				500	517.0	103.4	500	505.3	101.1	500	513.1	102.6
					4			5			6	
				500	507.4	101.5	500	508.1	101.6	500	502.4	100.5
					7			8			9	
				500	510.9	102.2						
Calcium	12500	12390	99.1		1			2			3	
				12500	12680	101.4	12500	12360	98.9	12500	12410	99.3
					4			5			6	
				12500	12260	98.1	12500	12180	97.4	12500	12220	97.8
					7			8			9	
				12500	12350	98.8						
Iron	12500	12470	99.8		1			2			3	
				12500	12910	103.3	12500	12690	101.5	12500	12770	102.2
					4			5			6	
				12500	12540	100.3	12500	12480	99.8	12500	12460	99.7
					7			8			9	
				12500	12920	103.4						
Magnesium	12500	12340	98.7		1			2			3	
				12500	12560	100.5	12500	12520	100.2	12500	12580	100.6
					4			5			6	
				12500	12440	99.5	12500	12390	99.1	12500	12440	99.5
					7			8			9	
				12500	12680	101.4						
Manganese	1000	1017	101.7		1			2			3	
				1000	1035	103.5	1000	1016	101.6	1000	1019	101.9
					4			5			6	
				1000	1010	101.0	1000	1015	101.5	1000	1011	101.1
					7			8			9	
				1000	1022	102.2						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Diss. Metals

Sequence: 1610204 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Silica (SiO2)	10000	9979	99.8		1			2			3	
				10000	10020	100.2	10000	10090	100.9	10000	10060	100.6
					4			5			6	
				10000	10050	100.5	10000	9988	99.9	10000	10110	101.1
					7			8			9	
				10000	10090	100.9						
Strontium	500	494.8	99.0		1			2			3	
				500	491.4	98.3	500	495.1	99.0	500	495.4	99.1
					4			5			6	
				500	488.3	97.7	500	483.1	96.6	500	484.3	96.9
					7			8			9	
				500	478.2	95.6						
Zinc	2500	2578	103.1		1			2			3	
				2500	2669	106.8	2500	2568	102.7	2500	2573	102.9
					4			5			6	
				2500	2531	101.2	2500	2572	102.9	2500	2522	100.9
					7			8			9	
				2500	2569	102.8						

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Diss. Metals

Sequence: 1610205 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Antimony	50.0	49.1	98.2		1			2			3	
				50.0	47.6	95.2	50.0	47.5	95.0	50.0	47.3	94.6
					4			5			6	
				50.0	47.3	94.6	50.0	47.3	94.6	50.0	47.3	94.6
					7			8			9	
				50.0	47.9	95.8						
Arsenic	50.0	51.3	102.6		1			2			3	
				50.0	50.8	101.6	50.0	49.6	99.2	50.0	50.3	100.6
					4			5			6	
				50.0	51.0	102.0	50.0	51.9	103.8	50.0	51.3	102.6
					7			8			9	
				50.0	51.0	102.0						
Cadmium	50.0	50.9	101.8		1			2			3	
				50.0	50.6	101.2	50.0	50.1	100.2	50.0	50.7	101.4
					4			5			6	
				50.0	50.3	100.6	50.0	50.7	101.4	50.0	50.5	101.0
					7			8			9	
				50.0	50.3	100.6						
Chromium	50.0	48.2	96.4		1			2			3	
				50.0	47.3	94.6	50.0	47.6	95.2	50.0	47.9	95.8
					4			5			6	
				50.0	47.8	95.6	50.0	47.6	95.2	50.0	48.1	96.2
					7			8			9	
				50.0	48.5	97.0						
Copper	50.0	48.5	97.0		1			2			3	
				50.0	47.8	95.6	50.0	47.6	95.2	50.0	47.9	95.8
					4			5			6	
				50.0	48.2	96.4	50.0	48.0	96.0	50.0	48.7	97.4
					7			8			9	
				50.0	48.7	97.4						
Lead	50.0	47.8	95.6		1			2			3	
				50.0	48.8	97.6	50.0	49.8	99.6	50.0	48.0	96.0
					4			5			6	
				50.0	49.1	98.2	50.0	49.6	99.2	50.0	50.3	100.6
					7			8			9	
				50.0	50.9	101.8						

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Diss. Metals

Sequence: 1610205 Work Order: C161005 Units: ug/L

Dissolved Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Nickel	50.0	48.3	96.6		1			2			3	
				50.0	47.5	95.0	50.0	48.3	96.6	50.0	47.9	95.8
					4			5			6	
				50.0	47.9	95.8	50.0	48.0	96.0	50.0	48.5	97.0
					7			8			9	
				50.0	47.9	95.8						
Selenium	50.0	51.8	103.6		1			2			3	
				50.0	53.6	107.2	50.0	52.1	104.2	50.0	51.9	103.8
					4			5			6	
				50.0	52.9	105.8	50.0	54.2	108.4	50.0	54.0	108.0
					7			8			9	
				50.0	53.1	106.2						
Silver	50.0	48.7	97.4		1			2			3	
				50.0	48.9	97.8	50.0	48.9	97.8	50.0	49.1	98.2
					4			5			6	
				50.0	48.7	97.4	50.0	49.0	98.0	50.0	49.4	98.8
					7			8			9	
				50.0	49.3	98.6						
Thallium	50.0	47.9	95.8		1			2			3	
				50.0	48.6	97.2	50.0	49.2	98.4	50.0	47.9	95.8
					4			5			6	
				50.0	49.2	98.4	50.0	50.0	100.0	50.0	50.2	100.4
					7			8			9	
				50.0	50.7	101.4						

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Sequence: 1610210 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Aluminum	12500	12300	98.4		1			2			3	
				12500	12230	97.8	12500	12340	98.7	12500	12240	97.9
					4			5			6	
				12500	12330	98.6	12500	12320	98.6	12500	12350	98.8
					7			8			9	
				12500	12350	98.8	12500	12460	99.7	12500	12440	99.5
Beryllium	500	510.0	102.0		1			2			3	
				500	507.0	101.4	500	511.1	102.2	500	510.6	102.1
					4			5			6	
				500	510.1	102.0	500	507.0	101.4	500	506.3	101.3
					7			8			9	
				500	504.3	100.9	500	508.6	101.7	500	507.9	101.6
Calcium	12500	12570	100.6		1			2			3	
				12500	12390	99.1	12500	12320	98.6	12500	12270	98.2
					4			5			6	
				12500	12510	100.1	12500	12300	98.4	12500	12410	99.3
					7			8			9	
				12500	12330	98.6	12500	12280	98.2	12500	12340	98.7
Iron	12500	12500	100.0		1			2			3	
				12500	12260	98.1	12500	12310	98.5	12500	12390	99.1
					4			5			6	
				12500	12520	100.2	12500	12320	98.6	12500	12410	99.3
					7			8			9	
				12500	12280	98.2	12500	12490	99.9	12500	12420	99.4
Magnesium	12500	12330	98.6		1			2			3	
				12500	12250	98.0	12500	12430	99.4	12500	12340	98.7
					4			5			6	
				12500	12440	99.5	12500	12380	99.0	12500	12480	99.8
					7			8			9	
				12500	12410	99.3	12500	12570	100.6	12500	12580	100.6
Manganese	1000	1023	102.3		1			2			3	
				1000	1010	101.0	1000	1012	101.2	1000	1014	101.4
					4			5			6	
				1000	1019	101.9	1000	1009	100.9	1000	1008	100.8
					7			8			9	
				1000	1012	101.2	1000	1018	101.8	1000	1013	101.3

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Sequence: 1610210 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Silica (SiO2)	10000	10030	100.3		1			2			3	
				10000	10040	100.4	10000	10130	101.3	10000	10070	100.7
					4			5			6	
				10000	10090	100.9	10000	10060	100.6	10000	10110	101.1
					7			8			9	
				10000	10120	101.2	10000	10070	100.7	10000	10100	101.0
Strontium	500	493.9	98.8		1			2			3	
				500	496.4	99.3	500	496.4	99.3	500	489.7	97.9
					4			5			6	
				500	487.1	97.4	500	489.1	97.8	500	484.9	97.0
					7			8			9	
				500	483.1	96.6	500	482.0	96.4	500	479.9	96.0
Zinc	2500	2630	105.2		1			2			3	
				2500	2568	102.7	2500	2559	102.4	2500	2578	103.1
					4			5			6	
				2500	2596	103.8	2500	2548	101.9	2500	2532	101.3
					7			8			9	
				2500	2533	101.3	2500	2556	102.2	2500	2572	102.9

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Sequence: 1610211 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Antimony	50.0	49.06	98.1		1			2			3	
				50.0	48.29	96.6	50.0	48.55	97.1	50.0	47.67	95.3
					4			5			6	
				50.0	48.38	96.8	50.0	49.51	99.0	50.0	48.82	97.6
					7			8			9	
				50.0	49.13	98.3	50.0	48.90	97.8	50.0	48.96	97.9
Arsenic	50.0	50.51	101.0		1			2			3	
				50.0	50.78	101.6	50.0	50.77	101.5	50.0	50.56	101.1
					4			5			6	
				50.0	50.71	101.4	50.0	51.80	103.6	50.0	51.64	103.3
					7			8			9	
				50.0	52.36	104.7	50.0	52.44	104.9	50.0	51.46	102.9
Cadmium	50.0	48.81	97.6		1			2			3	
				50.0	49.39	98.8	50.0	50.30	100.6	50.0	49.40	98.8
					4			5			6	
				50.0	50.19	100.4	50.0	50.44	100.9	50.0	50.50	101.0
					7			8			9	
				50.0	50.53	101.1	50.0	50.90	101.8	50.0	51.23	102.5
Chromium	50.0	47.59	95.2		1			2			3	
				50.0	47.21	94.4	50.0	47.70	95.4	50.0	47.24	94.5
					4			5			6	
				50.0	47.77	95.5	50.0	49.08	98.2	50.0	48.50	97.0
					7			8			9	
				50.0	49.18	98.4	50.0	48.56	97.1	50.0	48.42	96.8
Copper	50.0	49.27	98.5		1			2			3	
				50.0	48.56	97.1	50.0	48.09	96.2	50.0	48.03	96.1
					4			5			6	
				50.0	48.86	97.7	50.0	49.65	99.3	50.0	49.85	99.7
					7			8			9	
				50.0	49.30	98.6	50.0	49.18	98.4	50.0	49.00	98.0
Lead	50.0	47.47	94.9		1			2			3	
				50.0	46.87	93.7	50.0	47.57	95.1	50.0	48.06	96.1
					4			5			6	
				50.0	47.97	95.9	50.0	49.28	98.6	50.0	48.81	97.6
					7			8			9	
				50.0	49.13	98.3	50.0	48.73	97.5	50.0	49.13	98.3

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Sequence: 1610211 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Nickel	50.0	49.13	98.3		1			2			3	
				50.0	48.68	97.4	50.0	48.44	96.9	50.0	47.77	95.5
					4			5			6	
				50.0	48.24	96.5	50.0	49.38	98.8	50.0	49.21	98.4
					7			8			9	
				50.0	49.29	98.6	50.0	48.93	97.9	50.0	48.66	97.3
Selenium	50.0	53.30	106.6		1			2			3	
				50.0	53.46	106.9	50.0	53.51	107.0	50.0	53.31	106.6
					4			5			6	
				50.0	53.38	106.8	50.0	55.65	111.3	50.0	53.17	106.3
					7			8			9	
				50.0	56.02	112.0	50.0	56.23	112.5	50.0	54.61	109.2
Silver	50.0	47.75	95.5		1			2			3	
				50.0	47.71	95.4	50.0	47.90	95.8	50.0	47.90	95.8
					4			5			6	
				50.0	48.47	96.9	50.0	49.66	99.3	50.0	49.20	98.4
					7			8			9	
				50.0	49.74	99.5	50.0	49.47	98.9	50.0	49.89	99.8
Thallium	50.0	47.11	94.2		1			2			3	
				50.0	46.75	93.5	50.0	47.20	94.4	50.0	47.33	94.7
					4			5			6	
				50.0	48.50	97.0	50.0	49.04	98.1	50.0	48.52	97.0
					7			8			9	
				50.0	49.16	98.3	50.0	48.63	97.3	50.0	48.75	97.5

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Sequence: 1611011 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Aluminum	12500	12350	98.8		1			2			3	
				12500	12410	99.3	12500	12430	99.4	12500	12380	99.0
					4			5			6	
				12500	12620	101.0	12500	12390	99.1			
					7			8			9	
Beryllium	500	506.5	101.3		1			2			3	
				500	510.9	102.2	500	507.1	101.4	500	511.7	102.3
					4			5			6	
				500	502.4	100.5	500	501.4	100.3			
					7			8			9	
Calcium	12500	12490	99.9		1			2			3	
				12500	12590	100.7	12500	12520	100.2	12500	12580	100.6
					4			5			6	
				12500	12690	101.5	12500	12400	99.2			
					7			8			9	
Iron	12500	12560	100.5		1			2			3	
				12500	12610	100.9	12500	12600	100.8	12500	12560	100.5
					4			5			6	
				12500	12740	101.9	12500	12320	98.6			
					7			8			9	
Magnesium	12500	12370	99.0		1			2			3	
				12500	12520	100.2	12500	12520	100.2	12500	12460	99.7
					4			5			6	
				12500	12710	101.7	12500	12420	99.4			
					7			8			9	
Manganese	1000	1017	101.7		1			2			3	
				1000	1020	102.0	1000	1013	101.3	1000	1024	102.4
					4			5			6	
				1000	1010	101.0	1000	1010	101.0			
					7			8			9	

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPOE - PE Optima Method: 200.7 Analysis Name: ICPOE Tot. Rec. Metals

Sequence: 1611011 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Silica (SiO2)	10000	10090	100.9		1			2			3	
				10000	10100	101.0	10000	10130	101.3	10000	10020	100.2
					4			5			6	
				10000	10140	101.4	10000	10050	100.5			
					7			8			9	
Strontium	500	493.6	98.7		1			2			3	
				500	502.4	100.5	500	507.1	101.4	500	507.3	101.5
					4			5			6	
				500	515.3	103.1	500	511.0	102.2			
					7			8			9	
Zinc	2500	2505	100.2		1			2			3	
				2500	2524	101.0	2500	2482	99.3	2500	2577	103.1
					4			5			6	
				2500	2461	98.4	2500	2468	98.7			
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Bonita Peak_Water 3_OCT_2016_A119 **Certificate of Analysis**

TDF #: A-119

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Sequence: 1611012 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Antimony	50.0	48.66	97.3		1			2			3	
				50.0	47.84	95.7	50.0	48.11	96.2	50.0	47.94	95.9
					4			5			6	
				50.0	48.20	96.4	50.0	47.99	96.0			
					7			8			9	
Arsenic	50.0	51.02	102.0		1			2			3	
				50.0	49.88	99.8	50.0	51.14	102.3	50.0	50.40	100.8
					4			5			6	
				50.0	50.73	101.5	50.0	50.39	100.8			
					7			8			9	
Cadmium	50.0	49.15	98.3		1			2			3	
				50.0	48.75	97.5	50.0	49.16	98.3	50.0	49.55	99.1
					4			5			6	
				50.0	49.25	98.5	50.0	48.98	98.0			
					7			8			9	
Chromium	50.0	47.32	94.6		1			2			3	
				50.0	46.86	93.7	50.0	47.30	94.6	50.0	46.55	93.1
					4			5			6	
				50.0	46.65	93.3	50.0	47.09	94.2			
					7			8			9	
Copper	50.0	49.18	98.4		1			2			3	
				50.0	48.79	97.6	50.0	48.81	97.6	50.0	48.34	96.7
					4			5			6	
				50.0	48.31	96.6	50.0	48.18	96.4			
					7			8			9	
Lead	50.0	46.97	93.9		1			2			3	
				50.0	45.22	90.4	50.0	45.78	91.6	50.0	45.68	91.4
					4			5			6	
				50.0	45.40	90.8	50.0	45.55	91.1			
					7			8			9	

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Sequence: 1611012 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Nickel	50.0	48.35	96.7		1			2			3	
				50.0	48.54	97.1	50.0	48.35	96.7	50.0	48.08	96.2
					4			5			6	
				50.0	47.90	95.8	50.0	47.52	95.0			
					7			8			9	
Selenium	50.0	53.85	107.7		1			2			3	
				50.0	52.68	105.4	50.0	54.17	108.3	50.0	53.12	106.2
					4			5			6	
				50.0	53.72	107.4	50.0	52.23	104.5			
					7			8			9	
Silver	50.0	47.61	95.2		1			2			3	
				50.0	46.96	93.9	50.0	46.73	93.5	50.0	47.31	94.6
					4			5			6	
				50.0	47.23	94.5	50.0	46.43	92.9			
					7			8			9	
Thallium	50.0	46.97	93.9		1			2			3	
				50.0	45.21	90.4	50.0	45.46	90.9	50.0	45.77	91.5
					4			5			6	
				50.0	45.77	91.5	50.0	45.62	91.2			
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: Bonita Peak_Water 3_OCT_2016_A119 **Certificate of Analysis**

TDF #: A-119

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Sequence: 1611074 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Antimony	50.0	48.03	96.1		1			2			3	
				50.0	46.86	93.7	50.0	46.77	93.5			
					4			5			6	
					7			8			9	
Arsenic	50.0	49.45	98.9		1			2			3	
				50.0	50.39	100.8	50.0	50.43	100.9			
					4			5			6	
					7			8			9	
Cadmium	50.0	48.47	96.9		1			2			3	
				50.0	48.75	97.5	50.0	49.01	98.0			
					4			5			6	
					7			8			9	
Chromium	50.0	47.29	94.6		1			2			3	
				50.0	49.00	98.0	50.0	49.32	98.6			
					4			5			6	
					7			8			9	
Copper	50.0	47.82	95.6		1			2			3	
				50.0	49.95	99.9	50.0	49.63	99.3			
					4			5			6	
					7			8			9	
Lead	50.0	47.08	94.2		1			2			3	
				50.0	52.52	105.0	50.0	52.63	105.3			
					4			5			6	
					7			8			9	

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

Initial and Continuing Calibration Verification Results

ICPMS-PE DRC-II Method: 200.8 Analysis Name: ICPMS Tot. Rec. Metals

Sequence: 1611074 Work Order: C161005 Units: ug/L

Total Recoverable Analyte	Initial (ICV1, ICV2)			Continuing Calibration Verification Standards (CCVs)								
	True	Found	%R	True	Found	%R	True	Found	%R	True	Found	%R
Nickel	50.0	47.38	94.8		1			2			3	
				50.0	49.18	98.4	50.0	49.20	98.4			
					4			5			6	
					7			8			9	
Selenium	50.0	50.87	101.7		1			2			3	
				50.0	52.64	105.3	50.0	54.10	108.2			
					4			5			6	
					7			8			9	
Silver	50.0	47.86	95.7		1			2			3	
				50.0	49.32	98.6	50.0	49.36	98.7			
					4			5			6	
					7			8			9	
Thallium	50.0	47.64	95.3		1			2			3	
				50.0	52.17	104.3	50.0	52.49	105.0			
					4			5			6	
					7			8			9	

Metals - ICV & CCV %R Criteria = 90 - 110%, Classical Chemistry %R Criteria - ICV = 90 - 110%R, CCV = 80 - 120%R.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1610199	Analysis: ICPMS Diss. Metals					
Antimony	IFA1	0.1	ug/L			1.00
	IFB1	0.0	ug/L			1.00
Arsenic	IFA1	0.1	ug/L			2.00
	IFB1	21.1	ug/L	20	106	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	21.0	ug/L	20	105	0.200
Chromium	IFA1	0.0	ug/L			2.00
	IFB1	20.8	ug/L	20	104	2.00
Copper	IFA1	0.5	ug/L			1.00
	IFB1	21.7	ug/L	20	109	1.00
Lead	IFA1	0.0	ug/L			0.200
	IFB1	0.0	ug/L			0.200
Nickel	IFA1	-0.3	ug/L			1.00
	IFB1	20.9	ug/L	20	104	1.00
Selenium	IFA1	0.0	ug/L			2.00
	IFB1	0.0	ug/L			2.00
Silver	IFA1	0.0	ug/L			1.00
	IFB1	20.5	ug/L	20	103	1.00
Thallium	IFA1	0.0	ug/L			2.00
	IFB1	0.0	ug/L			2.00

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1610205	Analysis: ICPMS Diss. Metals					
Antimony	IFA1	0.1	ug/L			1.00
	IFB1	0.0	ug/L			1.00
Arsenic	IFA1	0.0	ug/L			2.00
	IFB1	20.6	ug/L	20	103	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	20.5	ug/L	20	102	0.200
Chromium	IFA1	0.2	ug/L			2.00
	IFB1	19.8	ug/L	20	99	2.00
Copper	IFA1	0.5	ug/L			1.00
	IFB1	19.7	ug/L	20	99	1.00
Lead	IFA1	0.0	ug/L			0.200
	IFB1	0.0	ug/L			0.200
Nickel	IFA1	-0.2	ug/L			1.00
	IFB1	19.1	ug/L	20	96	1.00
Selenium	IFA1	0.0	ug/L			2.00
	IFB1	-0.1	ug/L			2.00
Silver	IFA1	0.0	ug/L			1.00
	IFB1	19.4	ug/L	20	97	1.00
Thallium	IFA1	0.0	ug/L			2.00
	IFB1	0.0	ug/L			2.00

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1610211	Analysis: ICPMS Tot. Rec. Metals					
Antimony	IFA1	0.1	ug/L			1.00
	IFB1	0.0	ug/L			1.00
Arsenic	IFA1	0.0	ug/L			2.00
	IFB1	21.0	ug/L	20	105	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	20.2	ug/L	20	101	0.200
Chromium	IFA1	0.2	ug/L			2.00
	IFB1	20.0	ug/L	20	100	2.00
Copper	IFA1	0.6	ug/L			1.00
	IFB1	20.5	ug/L	20	102	1.00
Lead	IFA1	0.0	ug/L			0.200
	IFB1	0.0	ug/L			0.200
Nickel	IFA1	-0.1	ug/L			1.00
	IFB1	19.7	ug/L	20	99	1.00
Selenium	IFA1	-0.1	ug/L			2.00
	IFB1	-0.2	ug/L			2.00
Silver	IFA1	0.0	ug/L			1.00
	IFB1	19.0	ug/L	20	95	1.00
Thallium	IFA1	0.0	ug/L			2.00
	IFB1	0.0	ug/L			2.00

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1611012	Analysis: ICPMS Tot. Rec. Metals					
Antimony	IFA1	0.1	ug/L			1.00
	IFB1	0.0	ug/L			1.00
Arsenic	IFA1	0.0	ug/L			2.00
	IFB1	20.7	ug/L	20	104	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	20.3	ug/L	20	102	0.200
Chromium	IFA1	0.2	ug/L			2.00
	IFB1	20.0	ug/L	20	100	2.00
Copper	IFA1	0.7	ug/L			1.00
	IFB1	20.7	ug/L	20	103	1.00
Lead	IFA1	0.0	ug/L			0.200
	IFB1	0.0	ug/L			0.200
Nickel	IFA1	-0.2	ug/L			1.00
	IFB1	19.9	ug/L	20	100	1.00
Selenium	IFA1	0.3	ug/L			2.00
	IFB1	0.1	ug/L			2.00
Silver	IFA1	0.0	ug/L			1.00
	IFB1	18.9	ug/L	20	95	1.00
Thallium	IFA1	0.0	ug/L			2.00
	IFB1	0.0	ug/L			2.00

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPMS-PE DRC-II

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1611074	Analysis: ICPMS Tot. Rec. Metals					
Antimony	IFA1	0.0	ug/L			1.00
	IFB1	0.0	ug/L			1.00
Arsenic	IFA1	-0.1	ug/L			2.00
	IFB1	21.4	ug/L	20	107	2.00
Cadmium	IFA1	0.0	ug/L			0.200
	IFB1	20.3	ug/L	20	101	0.200
Chromium	IFA1	0.3	ug/L			2.00
	IFB1	20.2	ug/L	20	101	2.00
Copper	IFA1	0.4	ug/L			1.00
	IFB1	20.4	ug/L	20	102	1.00
Lead	IFA1	0.0	ug/L			0.200
	IFB1	0.0	ug/L			0.200
Nickel	IFA1	-0.3	ug/L			1.00
	IFB1	19.5	ug/L	20	97	1.00
Selenium	IFA1	0.0	ug/L			2.00
	IFB1	-0.1	ug/L			2.00
Silver	IFA1	0.0	ug/L			1.00
	IFB1	19.5	ug/L	20	98	1.00
Thallium	IFA1	0.0	ug/L			2.00
	IFB1	0.0	ug/L			2.00

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPOE - PE Optima

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1610195	Analysis: ICPOE Diss. Metals					
Aluminum	IFA1	62,215.2	ug/L	60,000	104	50.0
	IFB1	61,848.8	ug/L	60,000	103	50.0
Beryllium	IFA1	-0.5	ug/L			5.00
	IFB1	102.8	ug/L	100	103	5.00
Calcium	IFA1	301,613.3	ug/L	300,000	101	250
	IFB1	299,183.3	ug/L	300,000	100	250
Iron	IFA1	240,152.0	ug/L	250,000	96	250
	IFB1	241,595.6	ug/L	250,000	97	250
Magnesium	IFA1	146,943.6	ug/L	150,000	98	250
	IFB1	147,197.5	ug/L	150,000	98	250
Manganese	IFA1	1.3	ug/L			5.00
	IFB1	197.1	ug/L	200	99	5.00
Silica (SiO2)	IFA1	7.2	ug/L			1000
	IFB1	529.4	ug/L	500	106	1000
Strontium	IFA1	-6.2	ug/L			10.0
	IFB1	1,018.9	ug/L	1,000	102	10.0
Zinc	IFA1	-1.5	ug/L			20.0
	IFB1	287.1	ug/L	300	96	20.0

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPOE - PE Optima

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1610204	Analysis: ICPOE Diss. Metals					
Aluminum	IFA1	63,533.7	ug/L	60,000	106	50.0
	IFB1	61,244.6	ug/L	60,000	102	50.0
Beryllium	IFA1	-0.5	ug/L			5.00
	IFB1	102.7	ug/L	100	103	5.00
Calcium	IFA1	303,697.7	ug/L	300,000	101	250
	IFB1	292,936.0	ug/L	300,000	98	250
Iron	IFA1	246,663.0	ug/L	250,000	99	250
	IFB1	237,999.4	ug/L	250,000	95	250
Magnesium	IFA1	150,349.7	ug/L	150,000	100	250
	IFB1	145,283.9	ug/L	150,000	97	250
Manganese	IFA1	1.2	ug/L			5.00
	IFB1	196.0	ug/L	200	98	5.00
Silica (SiO2)	IFA1	7.8	ug/L			1000
	IFB1	530.2	ug/L	500	106	1000
Strontium	IFA1	-6.4	ug/L			10.0
	IFB1	1,011.1	ug/L	1,000	101	10.0
Zinc	IFA1	-2.8	ug/L			20.0
	IFB1	285.6	ug/L	300	95	20.0

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPOE - PE Optima

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1610210	Analysis: ICPOE Tot. Rec. Metals					
Aluminum	IFA1	62,778.5	ug/L	60,000	105	50.0
	IFB1	60,693.6	ug/L	60,000	101	50.0
Beryllium	IFA1	-0.5	ug/L			5.00
	IFB1	102.4	ug/L	100	102	5.00
Calcium	IFA1	306,905.8	ug/L	300,000	102	250
	IFB1	298,986.9	ug/L	300,000	100	250
Iron	IFA1	239,734.4	ug/L	250,000	96	250
	IFB1	233,385.2	ug/L	250,000	93	250
Magnesium	IFA1	147,749.2	ug/L	150,000	98	250
	IFB1	142,948.7	ug/L	150,000	95	250
Manganese	IFA1	1.3	ug/L			5.00
	IFB1	195.0	ug/L	200	97	5.00
Silica (SiO2)	IFA1	16.5	ug/L			1000
	IFB1	536.2	ug/L	500	107	1000
Strontium	IFA1	-6.1	ug/L			10.0
	IFB1	1,011.9	ug/L	1,000	101	10.0
Zinc	IFA1	-4.3	ug/L			20.0
	IFB1	293.0	ug/L	300	98	20.0

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8

ICP Interference Check Sample

ICPOE - PE Optima

Analyte	Check Sample	Result*	Units	True	%R	PQL
Sequence: 1611011	Analysis: ICPOE Tot. Rec. Metals					
Aluminum	IFA1	62,617.0	ug/L	60,000	104	50.0
	IFB1	60,717.3	ug/L	60,000	101	50.0
Beryllium	IFA1	-0.4	ug/L			5.00
	IFB1	100.9	ug/L	100	101	5.00
Calcium	IFA1	310,814.6	ug/L	300,000	104	250
	IFB1	295,657.3	ug/L	300,000	99	250
Iron	IFA1	245,265.6	ug/L	250,000	98	250
	IFB1	233,684.6	ug/L	250,000	93	250
Magnesium	IFA1	148,103.5	ug/L	150,000	99	250
	IFB1	143,395.9	ug/L	150,000	96	250
Manganese	IFA1	1.3	ug/L			5.00
	IFB1	193.2	ug/L	200	97	5.00
Silica (SiO2)	IFA1	17.0	ug/L			1000
	IFB1	534.8	ug/L	500	107	1000
Strontium	IFA1	-6.5	ug/L			10.0
	IFB1	1,008.7	ug/L	1,000	101	10.0
Zinc	IFA1	-6.1	ug/L			20.0
	IFB1	277.0	ug/L	300	92	20.0

*Criteria = 80-120%R of True Value or +/- PQL

See raw data for complete analyte list and results.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPMS-PE DRC-II

Metals (Dissolved) by EPA 200/7000 Series Methods

Sequence: 1610199

Analyte	True	Found	%R	Units
Antimony	1.00	1.01	101	ug/L
Arsenic	2.00	2.10	105	ug/L
Cadmium	0.200	0.206	103	ug/L
Chromium	2.00	1.61	80	ug/L
Copper	1.00	1.00	100	ug/L
Lead	0.200	0.185	93	ug/L
Nickel	1.00	0.966	97	ug/L
Selenium	2.00	2.25	112	ug/L
Silver	1.00	0.967	97	ug/L
Thallium	1.00	0.882	88	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPMS-PE DRC-II

Metals (Dissolved) by EPA 200/7000 Series Methods

Sequence: 1610205

Analyte	True	Found	%R	Units
Antimony	1.00	1.01	101	ug/L
Arsenic	2.00	1.91	95	ug/L
Cadmium	0.200	0.213	106	ug/L
Chromium	2.00	1.78	89	ug/L
Copper	1.00	1.03	103	ug/L
Lead	0.200	0.182	91	ug/L
Nickel	1.00	0.914	91	ug/L
Selenium	2.00	1.73	86	ug/L
Silver	1.00	0.932	93	ug/L
Thallium	1.00	0.870	87	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPOE - PE Optima

Metals (Dissolved) by EPA 200/7000 Series Methods

Sequence: 1610195

Analyte	True	Found	%R	Units
Aluminum	100	101.1	101	ug/L
Beryllium	5.00	5.201	104	ug/L
Calcium	250	242.5	97	ug/L
Iron	100	106.8	107	ug/L
Magnesium	1000	980.0	98	ug/L
Manganese	10.0	10.31	103	ug/L
Silica (SiO2)	250	250.9	100	ug/L
Strontium	10.0	10.11	101	ug/L
Zinc	50.0	52.55	105	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPOE - PE Optima

Metals (Dissolved) by EPA 200/7000 Series Methods

Sequence: 1610204

Analyte	True	Found	%R	Units
Aluminum	100	100.7	101	ug/L
Beryllium	5.00	5.069	101	ug/L
Calcium	250	241.7	97	ug/L
Iron	100	106.6	107	ug/L
Magnesium	1000	971.5	97	ug/L
Manganese	10.0	10.05	100	ug/L
Silica (SiO2)	250	251.3	101	ug/L
Strontium	10.0	10.04	100	ug/L
Zinc	50.0	51.74	103	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPMS-PE DRC-II

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1610211

Analyte	True	Found	%R	Units
Antimony	1.00	1.024	102	ug/L
Arsenic	2.00	2.072	104	ug/L
Cadmium	0.200	0.1984	99	ug/L
Chromium	2.00	1.859	93	ug/L
Copper	1.00	0.9447	94	ug/L
Lead	0.200	0.1758	88	ug/L
Nickel	1.00	1.066	107	ug/L
Selenium	2.00	2.119	106	ug/L
Silver	1.00	0.8946	89	ug/L
Thallium	1.00	0.8505	85	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPMS-PE DRC-II

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1611012

Analyte	True	Found	%R	Units
Antimony	1.00	0.9968	100	ug/L
Arsenic	2.00	2.071	104	ug/L
Cadmium	0.200	0.1842	92	ug/L
Chromium	2.00	1.720	86	ug/L
Copper	1.00	0.9106	91	ug/L
Lead	0.200	0.1554	78	ug/L
Nickel	1.00	0.9284	93	ug/L
Selenium	2.00	2.288	114	ug/L
Silver	1.00	0.8766	88	ug/L
Thallium	1.00	0.8187	82	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPMS-PE DRC-II

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1611074

Analyte	True	Found	%R	Units
Antimony	1.00	1.019	102	ug/L
Arsenic	2.00	2.198	110	ug/L
Cadmium	0.200	0.2037	102	ug/L
Chromium	2.00	1.965	98	ug/L
Copper	1.00	0.9639	96	ug/L
Lead	0.200	0.1860	93	ug/L
Nickel	1.00	0.9235	92	ug/L
Selenium	2.00	2.265	113	ug/L
Silver	1.00	1.008	101	ug/L
Thallium	1.00	0.9456	95	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPOE - PE Optima

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1610210

Analyte	True	Found	%R	Units
Aluminum	100	98.61	99	ug/L
Beryllium	5.00	5.095	102	ug/L
Calcium	250	244.2	98	ug/L
Iron	100	114.1	114	ug/L
Magnesium	1000	967.4	97	ug/L
Manganese	10.0	10.01	100	ug/L
Silica (SiO2)	250	249.5	100	ug/L
Strontium	10.0	9.975	100	ug/L
Zinc	50.0	51.01	102	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw, Inc. - ESAT Region 8
Detection Limit (PQL) Standard
ICPOE - PE Optima

Metals (Total Recov) by EPA 200/7000 Series Methods

Sequence: 1611011

Analyte	True	Found	%R	Units
Aluminum	100	98.97	99	ug/L
Beryllium	5.00	5.110	102	ug/L
Calcium	250	248.9	100	ug/L
Iron	100	81.03	81	ug/L
Magnesium	1000	966.1	97	ug/L
Manganese	10.0	10.08	101	ug/L
Silica (SiO2)	250	253.3	101	ug/L
Strontium	10.0	9.998	100	ug/L
Zinc	50.0	51.67	103	ug/L

Recovery Control Limits: 70-130% except Pb, Tl, Sb, & Hg at 50-150%. No limits for Al, Ca, Fe, K, Mg & Na.

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 310.1 **Total** **Sequence ID#:** 1610077

Instrument ID #: Mettler AT Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610060-SRM1	Reference	10/07/16	12:15
1610060-BLK1	Blank	10/07/16	12:15
C161005-05	CC39	10/07/16	12:15
C161005-08	CC39B	10/07/16	12:15
C161005-11	CC41	10/07/16	12:15
C161005-14	CC42	10/07/16	12:15
C161005-17	CC42F	10/07/16	12:15
C161005-22	CC43E	10/07/16	12:15
1610060-DUP1	Duplicate	10/07/16	12:15
C161005-25	CC46B	10/07/16	12:15
1610077-CCV1	Calibration Check	10/07/16	12:15
1610077-CCB1	Calibration Blank	10/07/16	12:15
C161005-28	CC47C	10/07/16	12:15
C161005-31	CC48	10/07/16	12:15
C161005-34	Dup-12	10/07/16	12:15
C161005-37	Dup-13	10/07/16	12:15
C161005-40	Dup-14	10/07/16	12:15
C161005-43	Dup-15	10/07/16	12:15
C161005-46	Dup-16	10/07/16	12:15
C161005-49	Dup-17	10/07/16	12:15
C161005-52	Dup-18	10/07/16	12:15
C161005-55	Dup-19	10/07/16	12:15
1610077-CCV2	Calibration Check	10/07/16	12:15
1610077-CCB2	Calibration Blank	10/07/16	12:15
C161005-58	Dup-20	10/07/16	12:15
C161005-61	Dup-21	10/07/16	12:15
C161005-64	Dup-22	10/07/16	12:15
C161005-67	Dup-23	10/07/16	12:15
C161005-70	FB-07	10/07/16	12:15
C161005-73	FB-16	10/07/16	12:15
C161005-76	M07	10/07/16	12:15
C161005-79	M08	10/07/16	12:15
C161005-82	M10	10/07/16	12:15
C161005-85	M10A	10/07/16	12:15
1610077-CCV3	Calibration Check	10/07/16	12:15
1610077-CCB3	Calibration Blank	10/07/16	12:15
1610060-DUP2	Duplicate	10/07/16	12:15
C161005-88	M10B	10/07/16	12:15

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 310.1 **Total** **Sequence ID#:** 1610077

Instrument ID #: Mettler AT Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
C161005-91	M11	10/07/16	12:15
C161005-94	M12	10/07/16	12:15
C161005-97	M12A	10/07/16	12:15
1610060-DUP3	Duplicate	10/07/16	12:15
C161005-AA	M12B	10/07/16	12:15
C161005-AD	M12C	10/07/16	12:15
C161005-AG	M12D	10/07/16	12:15
C161005-AJ	M13A	10/07/16	12:15
1610077-CCV4	Calibration Check	10/07/16	12:15
1610077-CCB4	Calibration Blank	10/07/16	12:15
C161005-AM	M13B	10/07/16	12:15
C161005-AP	M13D	10/07/16	12:15
C161005-AS	M14	10/07/16	12:15
1610060-DUP4	Duplicate	10/07/16	12:15
1610060-BLK2	Blank	10/07/16	12:15
C161005-AV	M14A	10/07/16	12:15
C161005-AY	M14B	10/07/16	12:15
C161005-BB	M14B	10/07/16	12:15
1610060-DUP5	Duplicate	10/07/16	12:15
1610077-CCV5	Calibration Check	10/07/16	12:15
1610077-CCB5	Calibration Blank	10/07/16	12:15

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 310.1 **Total** **Sequence ID#:** 1610102

Instrument ID #: Mettler AT Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610061-SRM1	Reference	10/07/16	08:44
1610061-BLK1	Blank	10/07/16	08:44
C161005-BE	M15	10/07/16	08:44
C161005-BH	M16	10/07/16	08:44
C161005-BK	M16A	10/07/16	08:44
1610061-DUP1	Duplicate	10/07/16	08:44
C161005-BN	M16B	10/07/16	08:44
C161005-BO	M16C	10/07/16	08:44
C161005-BT	M16D	10/07/16	08:44
C161005-BW	M16E	10/07/16	08:44
1610102-CCV1	Calibration Check	10/07/16	08:44
1610102-CCB1	Calibration Blank	10/07/16	08:44
C161005-BZ	M16F	10/07/16	08:44
1610061-DUP2	Duplicate	10/07/16	08:44
C161005-CC	M16G	10/07/16	08:44
C161005-CF	M16H	10/07/16	08:44
C161005-CI	M17	10/07/16	08:44
C161005-CL	M17A	10/07/16	08:44
C161005-CO	M18	10/07/16	08:44
C161005-CR	M19	10/07/16	08:44
C161005-CU	M20	10/07/16	08:44
C161005-CX	M20	10/07/16	08:44
1610102-CCV2	Calibration Check	10/07/16	08:44
1610102-CCB2	Calibration Blank	10/07/16	08:44
C161005-DA	M22	10/07/16	08:44
1610061-DUP3	Duplicate	10/07/16	08:44
C161005-DD	M23	10/07/16	08:44
C161005-DG	M24A	10/07/16	08:44
C161005-DL	M24C	10/07/16	08:44
C161005-DO	M24CROM	10/07/16	08:44
C161005-DR	M24D	10/07/16	08:44
C161005-DU	M25	10/07/16	08:44
C161005-DX	M26	10/07/16	08:44
C161005-EA	M26B	10/07/16	08:44
1610102-CCV3	Calibration Check	10/07/16	08:44
1610102-CCB3	Calibration Blank	10/07/16	08:44
1610061-DUP4	Duplicate	10/07/16	08:44
C161005-ED	M26D	10/07/16	08:44

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 310.1 **Total** **Sequence ID#:** 1610102

Instrument ID #: Mettler AT Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
C161005-EG	M27	10/07/16	08:44
C161005-EJ	M27	10/07/16	08:44
C161005-EM	M27A	10/07/16	08:44
C161005-EP	M27A	10/07/16	08:44
C161005-ES	M28	10/07/16	08:44
C161005-EV	M28	10/07/16	08:44
C161005-EY	M29	10/07/16	08:44
C161005-FB	M30	10/07/16	08:44
1610102-CCV4	Calibration Check	10/07/16	08:44
1610102-CCB4	Calibration Blank	10/07/16	08:44
C161005-FE	M30	10/07/16	08:44
1610061-DUP5	Duplicate	10/07/16	08:44
1610061-BLK2	Blank	10/07/16	08:44
C161005-FH	M32	10/07/16	08:44
C161005-FK	M33	10/07/16	08:44
C161005-FN	M34	10/07/16	08:44
C161005-FO	M34	10/07/16	08:44
C161005-FT	M38	10/07/16	08:44
1610102-CCV5	Calibration Check	10/07/16	08:44
1610102-CCB5	Calibration Blank	10/07/16	08:44

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 300.0 **Dissolved** **Sequence ID#:** 1610144

Instrument ID #: ESAT Dionex IC Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610144-ICV1	Initial Cal Check	10/14/16	11:03
1610144-ICB1	Initial Cal Blank	10/14/16	11:18
1610144-SCV1	Secondary Cal Check	10/14/16	11:33
1610144-IBL1	Instrument Blank	10/14/16	11:48
1610085-BS1	Blank Spike	10/14/16	12:03
1610085-BLK1	Blank	10/14/16	12:18
C161005-05	CC39	10/14/16	12:33
1610085-DUP1	Duplicate	10/14/16	12:48
1610085-MS1	Matrix Spike	10/14/16	13:03
C161005-08	CC39B	10/14/16	13:18
C161005-11	CC41	10/14/16	13:34
C161005-14	CC42	10/14/16	13:49
1610144-CCV1	Calibration Check	10/14/16	14:04
1610144-CCB1	Calibration Blank	10/14/16	14:19
C161005-17	CC42F	10/14/16	14:34
C161005-22	CC43E	10/14/16	14:49
C161005-25	CC46B	10/14/16	15:04
C161005-28	CC47C	10/14/16	15:19
C161005-31	CC48	10/14/16	15:34
C161005-34	Dup-12	10/14/16	15:49
C161005-37	Dup-13	10/14/16	16:04
1610085-MS2	Matrix Spike	10/14/16	16:19
C161005-40	Dup-14	10/14/16	16:34
C161005-43	Dup-15	10/14/16	16:50
1610144-CCV2	Calibration Check	10/14/16	17:05
1610144-CCB2	Calibration Blank	10/14/16	17:20
C161005-46	Dup-16	10/14/16	17:35
C161005-49	Dup-17	10/14/16	17:50
C161005-52	Dup-18	10/14/16	18:05
C161005-55	Dup-19	10/14/16	18:20
C161005-58	Dup-20	10/14/16	18:35
C161005-61	Dup-21	10/14/16	18:50
C161005-64	Dup-22	10/14/16	19:05
1610144-CCV3	Calibration Check	10/14/16	19:20
1610144-CCB3	Calibration Blank	10/14/16	19:35

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 300.0 **Dissolved** **Sequence ID#:** 1610145

Instrument ID #: ESAT Dionex IC Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610145-ICV1	Initial Cal Check	10/14/16	19:20
1610145-ICB1	Initial Cal Blank	10/14/16	19:35
1610145-SCV1	Secondary Cal Check	10/14/16	19:50
1610145-IBL1	Instrument Blank	10/14/16	20:06
1610088-BS1	Blank Spike	10/14/16	20:21
1610088-BLK1	Blank	10/14/16	20:36
C161005-67	Dup-23	10/14/16	20:51
1610088-DUP1	Duplicate	10/14/16	21:06
1610088-MS1	Matrix Spike	10/14/16	21:21
C161005-70	FB-07	10/14/16	21:36
C161005-73	FB-16	10/14/16	21:51
C161005-76	M07	10/14/16	22:06
1610145-CCV1	Calibration Check	10/14/16	22:21
1610145-CCB1	Calibration Blank	10/14/16	22:36
C161005-79	M08	10/14/16	22:51
C161005-82	M10	10/14/16	23:06
C161005-85	M10A	10/14/16	23:21
C161005-88	M10B	10/14/16	23:37
C161005-91	M11	10/14/16	23:52
C161005-94	M12	10/15/16	00:07
C161005-97	M12A	10/15/16	00:22
1610088-MS2	Matrix Spike	10/15/16	00:37
C161005-AA	M12B	10/15/16	00:52
C161005-AD	M12C	10/15/16	01:07
1610145-CCV2	Calibration Check	10/15/16	01:22
1610145-CCB2	Calibration Blank	10/15/16	01:37
C161005-AG	M12D	10/15/16	01:52
C161005-AJ	M13A	10/15/16	02:07
C161005-AM	M13B	10/15/16	02:22
C161005-AP	M13D	10/15/16	02:37
C161005-AS	M14	10/15/16	02:53
C161005-AV	M14A	10/15/16	03:08
C161005-AY	M14B	10/15/16	03:23
1610145-CCV3	Calibration Check	10/15/16	03:38
1610145-CCB3	Calibration Blank	10/15/16	03:53

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 300.0 **Dissolved** **Sequence ID#:** 1610164

Instrument ID #: ESAT Dionex IC Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610164-ICV1	Initial Cal Check	10/17/16	09:15
1610164-ICB1	Initial Cal Blank	10/17/16	09:30
1610164-SCV1	Secondary Cal Check	10/17/16	09:46
1610164-IBL1	Instrument Blank	10/17/16	10:01
1610089-BS1	Blank Spike	10/17/16	10:16
1610089-BLK1	Blank	10/17/16	10:31
C161005-BB	M14B	10/17/16	10:46
1610089-DUP1	Duplicate	10/17/16	11:01
1610089-MS1	Matrix Spike	10/17/16	11:16
C161005-BE	M15	10/17/16	11:31
C161005-BH	M16	10/17/16	12:31
C161005-BK	M16A	10/17/16	12:46
1610164-CCV1	Calibration Check	10/17/16	13:02
1610164-CCB1	Calibration Blank	10/17/16	13:17
C161005-BN	M16B	10/17/16	13:32
C161005-BO	M16C	10/17/16	13:47
C161005-BT	M16D	10/17/16	14:02
C161005-BW	M16E	10/17/16	14:17
C161005-BZ	M16F	10/17/16	14:32
C161005-CC	M16G	10/17/16	14:47
C161005-CF	M16H	10/17/16	15:02
1610089-MS2	Matrix Spike	10/17/16	15:17
C161005-CI	M17	10/17/16	15:32
C161005-CL	M17A	10/17/16	15:47
1610164-CCV2	Calibration Check	10/17/16	16:02
1610164-CCB2	Calibration Blank	10/17/16	16:18
C161005-CO	M18	10/17/16	16:33
C161005-CR	M19	10/17/16	16:48
C161005-CU	M20	10/17/16	17:03
C161005-CX	M20	10/17/16	17:18
C161005-DA	M22	10/17/16	17:33
C161005-DD	M23	10/17/16	17:48
C161005-DG	M24A	10/17/16	18:03
1610164-CCV3	Calibration Check	10/17/16	18:18
1610164-CCB3	Calibration Blank	10/17/16	18:33

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 300.0 **Dissolved** **Sequence ID#:** 1610165

Instrument ID #: ESAT Dionex IC Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610165-ICV1	Initial Cal Check	10/17/16	18:18
1610165-ICB1	Initial Cal Blank	10/17/16	18:33
1610165-SCV1	Secondary Cal Check	10/17/16	18:48
1610165-IBL1	Instrument Blank	10/17/16	19:03
1610090-BS1	Blank Spike	10/17/16	19:18
1610090-BLK1	Blank	10/17/16	19:34
C161005-DL	M24C	10/17/16	19:49
1610090-DUP1	Duplicate	10/17/16	20:04
1610090-MS1	Matrix Spike	10/17/16	20:19
C161005-DO	M24CROM	10/17/16	20:34
C161005-DR	M24D	10/17/16	20:49
C161005-DU	M25	10/17/16	21:04
1610165-CCV1	Calibration Check	10/17/16	21:19
1610165-CCB1	Calibration Blank	10/17/16	21:34
C161005-DX	M26	10/17/16	21:49
C161005-EA	M26B	10/17/16	22:04
C161005-ED	M26D	10/17/16	22:19
C161005-EG	M27	10/17/16	22:34
C161005-EJ	M27	10/17/16	22:50
C161005-EM	M27A	10/17/16	23:05
C161005-EP	M27A	10/17/16	23:20
1610090-MS2	Matrix Spike	10/17/16	23:35
C161005-ES	M28	10/17/16	23:50
C161005-EV	M28	10/18/16	00:05
1610165-CCV2	Calibration Check	10/18/16	00:20
1610165-CCB2	Calibration Blank	10/18/16	00:35
C161005-EY	M29	10/18/16	00:50
C161005-FB	M30	10/18/16	01:05
C161005-FE	M30	10/18/16	01:20
C161005-FH	M32	10/18/16	01:35
C161005-FK	M33	10/18/16	01:50
C161005-FN	M34	10/18/16	02:06
1610090-BS2	Blank Spike	10/18/16	02:21
1610090-BLK2	Blank	10/18/16	02:36
C161005-FO	M34	10/18/16	02:51
C161005-FT	M38	10/18/16	03:06
1610165-CCV3	Calibration Check	10/18/16	03:21
1610165-CCB3	Calibration Blank	10/18/16	03:36

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: EPA 300.0 **Dissolved** **Sequence ID#:** 1610165

Instrument ID #: ESAT Dionex IC Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610090-DUP2	Duplicate	10/18/16	03:51
1610090-MS3	Matrix Spike	10/18/16	04:06
1610165-CCV4	Calibration Check	10/18/16	04:21
1610165-CCB4	Calibration Blank	10/18/16	04:36

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Dissolved** **Sequence ID#:** 1610195

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610195-ICV1	Initial Cal Check	10/26/16	07:51
1610195-SCV1	Secondary Cal Check	10/26/16	07:54
1610195-ICB1	Initial Cal Blank	10/26/16	07:58
1610195-CRL1	Instrument RL Check	10/26/16	08:01
1610195-IFA1	Interference Check A	10/26/16	08:03
1610195-IFB1	Interference Check B	10/26/16	08:07
1610185-BLK1	Blank	10/26/16	08:11
1610185-BS1	Blank Spike	10/26/16	08:14
C161005-02	CC-01B	10/26/16	08:17
1610185-DUP1	Duplicate	10/26/16	08:21
1610195-SRD1	Serial Dilution	10/26/16	08:25
1610185-MS1	Matrix Spike	10/26/16	08:28
C161005-04	CC39	10/26/16	08:32
1610185-MS2	Matrix Spike	10/26/16	08:35
C161005-07	CC39B	10/26/16	08:39
1610195-CCV1	Calibration Check	10/26/16	08:45
1610195-CCB1	Calibration Blank	10/26/16	08:48
C161005-10	CC41	10/26/16	08:51
C161005-13	CC42	10/26/16	08:54
C161005-16	CC42F	10/26/16	08:58
C161005-19	CC43C	10/26/16	09:02
C161005-21	CC43E	10/26/16	09:06
C161005-24	CC46B	10/26/16	09:09
C161005-27	CC47C	10/26/16	09:12
C161005-30	CC48	10/26/16	09:15
C161005-33	Dup-12	10/26/16	09:18
1610195-CCV2	Calibration Check	10/26/16	09:25
1610195-CCB2	Calibration Blank	10/26/16	09:28
C161005-36	Dup-13	10/26/16	09:31
C161005-39	Dup-14	10/26/16	09:34
C161005-42	Dup-15	10/26/16	09:37
C161005-45	Dup-16	10/26/16	09:40
C161005-48	Dup-17	10/26/16	09:44
C161005-51	Dup-18	10/26/16	09:46
C161005-54	Dup-19	10/26/16	09:50
C161005-57	Dup-20	10/26/16	09:53
1610195-CCV3	Calibration Check	10/26/16	09:59
1610195-CCB3	Calibration Blank	10/26/16	10:02

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Dissolved** **Sequence ID#:** 1610195

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610191-BLK1	Blank	10/26/16	10:08
1610191-BS1	Blank Spike	10/26/16	10:11
C161005-60	Dup-21	10/26/16	10:14
1610191-DUP1	Duplicate	10/26/16	10:17
1610195-SRD2	Serial Dilution	10/26/16	10:20
1610191-MS1	Matrix Spike	10/26/16	10:23
C161005-63	Dup-22	10/26/16	10:26
1610191-MS2	Matrix Spike	10/26/16	10:29
C161005-66	Dup-23	10/26/16	10:32
1610195-CCV4	Calibration Check	10/26/16	10:38
1610195-CCB4	Calibration Blank	10/26/16	10:41
C161005-69	FB-07	10/26/16	10:45
C161005-72	FB-16	10/26/16	10:48
C161005-75	M07	10/26/16	10:51
C161005-78	M08	10/26/16	10:54
C161005-81	M10	10/26/16	10:57
C161005-84	M10A	10/26/16	11:00
C161005-87	M10B	10/26/16	11:03
C161005-90	M11	10/26/16	11:06
C161005-93	M12	10/26/16	11:09
1610195-CCV5	Calibration Check	10/26/16	11:15
1610195-CCB5	Calibration Blank	10/26/16	11:18
C161005-96	M12A	10/26/16	11:22
C161005-99	M12B	10/26/16	11:25
C161005-AC	M12C	10/26/16	11:28
C161005-AF	M12D	10/26/16	11:31
C161005-AI	M13A	10/26/16	11:34
C161005-AL	M13B	10/26/16	11:37
C161005-AO	M13D	10/26/16	11:41
C161005-AR	M14	10/26/16	11:44
1610195-CCV6	Calibration Check	10/26/16	11:50
1610195-CCB6	Calibration Blank	10/26/16	11:53

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1610199

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610199-ICV1	Initial Cal Check	10/26/16	09:18
1610199-SCV1	Secondary Cal Check	10/26/16	09:21
1610199-ICB1	Initial Cal Blank	10/26/16	09:24
1610199-CRL1	Instrument RL Check	10/26/16	09:28
1610199-IFA1	Interference Check A	10/26/16	09:31
1610199-IFB1	Interference Check B	10/26/16	09:34
1610186-BLK1	Blank	10/26/16	09:38
1610186-BS1	Blank Spike	10/26/16	09:41
C161005-02	CC-01B	10/26/16	09:44
1610186-DUP1	Duplicate	10/26/16	09:47
1610199-SRD1	Serial Dilution	10/26/16	09:50
1610186-MS1	Matrix Spike	10/26/16	09:53
C161005-04	CC39	10/26/16	09:56
1610186-MS2	Matrix Spike	10/26/16	09:59
C161005-07	CC39B	10/26/16	10:02
1610199-CCV1	Calibration Check	10/26/16	10:08
1610199-CCB1	Calibration Blank	10/26/16	10:12
C161005-10	CC41	10/26/16	10:15
C161005-13	CC42	10/26/16	10:18
C161005-16	CC42F	10/26/16	10:21
C161005-19	CC43C	10/26/16	10:24
C161005-21	CC43E	10/26/16	10:27
C161005-24	CC46B	10/26/16	10:30
C161005-27	CC47C	10/26/16	10:33
C161005-30	CC48	10/26/16	10:37
C161005-33	Dup-12	10/26/16	10:40
1610199-CCV2	Calibration Check	10/26/16	10:46
1610199-CCB2	Calibration Blank	10/26/16	10:49
C161005-36	Dup-13	10/26/16	10:52
C161005-39	Dup-14	10/26/16	10:56
C161005-42	Dup-15	10/26/16	10:59
C161005-45	Dup-16	10/26/16	11:02
C161005-48	Dup-17	10/26/16	11:05
C161005-51	Dup-18	10/26/16	11:08
C161005-54	Dup-19	10/26/16	11:11
C161005-57	Dup-20	10/26/16	11:14
1610199-CCV3	Calibration Check	10/26/16	11:20
1610199-CCB3	Calibration Blank	10/26/16	11:24

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1610199

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610192-BLK1	Blank	10/26/16	11:29
1610192-BS1	Blank Spike	10/26/16	11:32
C161005-60	Dup-21	10/26/16	11:47
1610192-DUP1	Duplicate	10/26/16	11:50
1610199-SRD2	Serial Dilution	10/26/16	11:53
1610192-MS1	Matrix Spike	10/26/16	11:56
C161005-63	Dup-22	10/26/16	11:59
1610192-MS2	Matrix Spike	10/26/16	12:02
C161005-66	Dup-23	10/26/16	12:05
1610199-CCV4	Calibration Check	10/26/16	12:11
1610199-CCB4	Calibration Blank	10/26/16	12:14
C161005-69	FB-07	10/26/16	12:18
C161005-72	FB-16	10/26/16	12:21
C161005-75	M07	10/26/16	12:24
C161005-78	M08	10/26/16	12:27
C161005-81	M10	10/26/16	12:30
C161005-84	M10A	10/26/16	12:33
C161005-87	M10B	10/26/16	12:36
C161005-90	M11	10/26/16	12:39
C161005-93	M12	10/26/16	12:42
1610199-CCV5	Calibration Check	10/26/16	12:49
1610199-CCB5	Calibration Blank	10/26/16	12:52
C161005-96	M12A	10/26/16	12:55
C161005-99	M12B	10/26/16	13:04
C161005-AC	M12C	10/26/16	13:07
C161005-AF	M12D	10/26/16	13:10
C161005-AI	M13A	10/26/16	13:13
C161005-AL	M13B	10/26/16	13:16
C161005-AO	M13D	10/26/16	13:19
C161005-AR	M14	10/26/16	13:22
1610199-CCV6	Calibration Check	10/26/16	13:28
1610199-CCB6	Calibration Blank	10/26/16	13:32

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Dissolved** **Sequence ID#:** 1610204

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610204-ICV1	Initial Cal Check	10/27/16	08:04
1610204-SCV1	Secondary Cal Check	10/27/16	08:08
1610204-ICB1	Initial Cal Blank	10/27/16	08:11
1610204-CRL1	Instrument RL Check	10/27/16	08:14
1610204-IFA1	Interference Check A	10/27/16	08:16
1610204-IFB1	Interference Check B	10/27/16	08:20
1610196-BLK1	Blank	10/27/16	08:24
1610196-BS1	Blank Spike	10/27/16	08:27
C161005-AU	M14A	10/27/16	08:30
1610196-DUP1	Duplicate	10/27/16	08:34
1610204-SRD1	Serial Dilution	10/27/16	08:37
1610196-MS1	Matrix Spike	10/27/16	08:40
C161005-AX	M14B	10/27/16	08:43
1610196-MS2	Matrix Spike	10/27/16	08:46
C161005-BA	M14B	10/27/16	08:49
1610204-CCV1	Calibration Check	10/27/16	08:55
1610204-CCB1	Calibration Blank	10/27/16	08:58
C161005-BD	M15	10/27/16	09:01
C161005-BG	M16	10/27/16	09:04
C161005-BJ	M16A	10/27/16	09:08
C161005-BM	M16B	10/27/16	09:12
C161005-BP	M16C	10/27/16	09:16
C161005-BS	M16D	10/27/16	09:20
C161005-BV	M16E	10/27/16	09:23
C161005-BY	M16F	10/27/16	09:26
C161005-CB	M16G	10/27/16	09:29
1610204-CCV2	Calibration Check	10/27/16	09:35
1610204-CCB2	Calibration Blank	10/27/16	09:38
C161005-CE	M16H	10/27/16	09:42
C161005-CH	M17	10/27/16	09:45
C161005-CK	M17A	10/27/16	09:48
C161005-CN	M18	10/27/16	09:50
C161005-CO	M19	10/27/16	09:53
C161005-CT	M20	10/27/16	09:56
C161005-CW	M20	10/27/16	10:00
C161005-CZ	M22	10/27/16	10:03
1610204-CCV3	Calibration Check	10/27/16	10:09
1610204-CCB3	Calibration Blank	10/27/16	10:12

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Dissolved** **Sequence ID#:** 1610204

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610200-BLK1	Blank	10/27/16	10:19
1610200-BS1	Blank Spike	10/27/16	10:23
C161005-DC	M23	10/27/16	10:26
1610200-DUP1	Duplicate	10/27/16	10:29
1610204-SRD2	Serial Dilution	10/27/16	10:32
1610200-MS1	Matrix Spike	10/27/16	10:35
C161005-DF	M24A	10/27/16	10:38
1610200-MS2	Matrix Spike	10/27/16	10:41
C161005-DI	M24B	10/27/16	10:44
1610204-CCV4	Calibration Check	10/27/16	10:50
1610204-CCB4	Calibration Blank	10/27/16	10:53
C161005-DK	M24C	10/27/16	10:56
C161005-DN	M24CROM	10/27/16	10:59
C161005-DO	M24D	10/27/16	11:02
C161005-DT	M25	10/27/16	11:06
C161005-DW	M26	10/27/16	11:09
C161005-DZ	M26B	10/27/16	11:12
C161005-EC	M26D	10/27/16	11:15
C161005-EF	M27	10/27/16	11:17
C161005-EI	M27	10/27/16	11:20
1610204-CCV5	Calibration Check	10/27/16	11:26
1610204-CCB5	Calibration Blank	10/27/16	11:30
C161005-EL	M27A	10/27/16	11:33
C161005-EO	M27A	10/27/16	11:36
C161005-ER	M28	10/27/16	11:39
C161005-EU	M28	10/27/16	11:42
C161005-EX	M29	10/27/16	11:45
C161005-FA	M30	10/27/16	11:48
C161005-FD	M30	10/27/16	11:51
C161005-FG	M32	10/27/16	11:54
1610204-CCV6	Calibration Check	10/27/16	12:00
1610204-CCB6	Calibration Blank	10/27/16	12:03
1610202-BLK1	Blank	10/27/16	12:08
1610202-BS1	Blank Spike	10/27/16	12:11
C161005-FJ	M33	10/27/16	12:14
1610202-DUP1	Duplicate	10/27/16	12:17
1610204-SRD3	Serial Dilution	10/27/16	12:20
1610202-MS1	Matrix Spike	10/27/16	12:23

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Dissolved** **Sequence ID#:** 1610204

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
C161005-FM	M34	10/27/16	12:26
C161005-FP	M34	10/27/16	12:29
C161005-FS	M38	10/27/16	12:32
1610204-CCV7	Calibration Check	10/27/16	12:38
1610204-CCB7	Calibration Blank	10/27/16	12:41

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1610205

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610205-ICV1	Initial Cal Check	10/27/16	08:46
1610205-SCV1	Secondary Cal Check	10/27/16	08:50
1610205-ICB1	Initial Cal Blank	10/27/16	08:53
1610205-CRL1	Instrument RL Check	10/27/16	08:56
1610205-IFA1	Interference Check A	10/27/16	08:59
1610205-IFB1	Interference Check B	10/27/16	09:03
1610197-BLK1	Blank	10/27/16	09:06
1610197-BS1	Blank Spike	10/27/16	09:09
C161005-AU	M14A	10/27/16	09:12
1610197-DUP1	Duplicate	10/27/16	09:15
1610205-SRD1	Serial Dilution	10/27/16	09:18
1610197-MS1	Matrix Spike	10/27/16	09:21
C161005-AX	M14B	10/27/16	09:25
1610197-MS2	Matrix Spike	10/27/16	09:28
C161005-BA	M14B	10/27/16	09:31
1610205-CCV1	Calibration Check	10/27/16	09:37
1610205-CCB1	Calibration Blank	10/27/16	09:40
C161005-BD	M15	10/27/16	09:44
C161005-BG	M16	10/27/16	09:47
C161005-BJ	M16A	10/27/16	09:50
C161005-BM	M16B	10/27/16	09:53
C161005-BP	M16C	10/27/16	09:56
C161005-BS	M16D	10/27/16	09:59
C161005-BV	M16E	10/27/16	10:02
C161005-BY	M16F	10/27/16	10:05
C161005-CB	M16G	10/27/16	10:08
1610205-CCV2	Calibration Check	10/27/16	10:14
1610205-CCB2	Calibration Blank	10/27/16	10:18
C161005-CE	M16H	10/27/16	10:21
C161005-CH	M17	10/27/16	10:24
C161005-CK	M17A	10/27/16	10:27
C161005-CN	M18	10/27/16	10:30
C161005-CO	M19	10/27/16	10:33
C161005-CT	M20	10/27/16	10:36
C161005-CW	M20	10/27/16	10:40
C161005-CZ	M22	10/27/16	10:43
1610205-CCV3	Calibration Check	10/27/16	10:49
1610205-CCB3	Calibration Blank	10/27/16	10:52

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1610205

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610201-BLK1	Blank	10/27/16	10:58
1610201-BS1	Blank Spike	10/27/16	11:02
C161005-DC	M23	10/27/16	11:05
1610201-DUP1	Duplicate	10/27/16	11:08
1610205-SRD2	Serial Dilution	10/27/16	11:11
1610201-MS1	Matrix Spike	10/27/16	11:14
C161005-DF	M24A	10/27/16	11:17
1610201-MS2	Matrix Spike	10/27/16	11:20
C161005-DI	M24B	10/27/16	11:23
1610205-CCV4	Calibration Check	10/27/16	11:29
1610205-CCB4	Calibration Blank	10/27/16	11:33
C161005-DK	M24C	10/27/16	11:36
C161005-DN	M24CROM	10/27/16	11:39
C161005-DO	M24D	10/27/16	11:42
C161005-DT	M25	10/27/16	11:45
C161005-DW	M26	10/27/16	11:48
C161005-DZ	M26B	10/27/16	11:51
C161005-EC	M26D	10/27/16	11:54
C161005-EF	M27	10/27/16	11:57
C161005-EI	M27	10/27/16	12:01
1610205-CCV5	Calibration Check	10/27/16	12:07
1610205-CCB5	Calibration Blank	10/27/16	12:10
C161005-EL	M27A	10/27/16	12:13
C161005-EO	M27A	10/27/16	12:16
C161005-ER	M28	10/27/16	12:20
C161005-EU	M28	10/27/16	12:23
C161005-EX	M29	10/27/16	12:26
C161005-FA	M30	10/27/16	12:29
C161005-FD	M30	10/27/16	12:32
C161005-FG	M32	10/27/16	12:35
1610205-CCV6	Calibration Check	10/27/16	12:41
1610205-CCB6	Calibration Blank	10/27/16	12:44
1610203-BLK1	Blank	10/27/16	12:50
1610203-BS1	Blank Spike	10/27/16	12:53
C161005-FJ	M33	10/27/16	12:56
1610203-DUP1	Duplicate	10/27/16	12:59
1610205-SRD3	Serial Dilution	10/27/16	13:02
1610203-MS1	Matrix Spike	10/27/16	13:05

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Dissolved** **Sequence ID#:** 1610205

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
C161005-FM	M34	10/27/16	13:08
C161005-FP	M34	10/27/16	13:11
C161005-FS	M38	10/27/16	13:14
1610205-CCV7	Calibration Check	10/27/16	13:21
1610205-CCB7	Calibration Blank	10/27/16	13:24

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1610210

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610210-ICV1	Initial Cal Check	10/31/16	08:31
1610210-SCV1	Secondary Cal Check	10/31/16	08:34
1610210-ICB1	Initial Cal Blank	10/31/16	08:37
1610210-CRL1	Instrument RL Check	10/31/16	08:40
1610210-IFA1	Interference Check A	10/31/16	08:43
1610210-IFB1	Interference Check B	10/31/16	08:46
1610175-BLK1	Blank	10/31/16	08:50
1610175-SRM1	Reference	10/31/16	08:54
C161005-01	CC-01B	10/31/16	08:57
1610175-DUP1	Duplicate	10/31/16	09:01
1610210-SRD1	Serial Dilution	10/31/16	09:05
1610175-MS1	Matrix Spike	10/31/16	09:08
C161005-03	CC39	10/31/16	09:12
1610175-MS3	Matrix Spike	10/31/16	09:15
C161005-06	CC39B	10/31/16	09:18
1610210-CCV1	Calibration Check	10/31/16	09:24
1610210-CCB1	Calibration Blank	10/31/16	09:27
C161005-09	CC41	10/31/16	09:30
C161005-12	CC42	10/31/16	09:34
C161005-15	CC42F	10/31/16	09:38
C161005-18	CC43C	10/31/16	09:41
C161005-20	CC43E	10/31/16	09:45
C161005-23	CC46B	10/31/16	09:48
C161005-26	CC47C	10/31/16	09:51
C161005-29	CC48	10/31/16	09:55
C161005-32	Dup-12	10/31/16	09:58
1610210-CCV2	Calibration Check	10/31/16	10:04
1610210-CCB2	Calibration Blank	10/31/16	10:07
C161005-35	Dup-13	10/31/16	10:10
C161005-38	Dup-14	10/31/16	10:13
C161005-41	Dup-15	10/31/16	10:16
C161005-44	Dup-16	10/31/16	10:19
C161005-47	Dup-17	10/31/16	10:22
C161005-50	Dup-18	10/31/16	10:25
C161005-53	Dup-19	10/31/16	10:29
1610210-CCV3	Calibration Check	10/31/16	10:35
1610210-CCB3	Calibration Blank	10/31/16	10:38
1610176-BLK1	Blank	10/31/16	10:43

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1610210

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610176-SRM1	Reference	10/31/16	10:46
C161005-56	Dup-20	10/31/16	10:49
1610176-DUP1	Duplicate	10/31/16	10:52
1610210-SRD2	Serial Dilution	10/31/16	10:55
1610176-MS1	Matrix Spike	10/31/16	10:58
C161005-59	Dup-21	10/31/16	11:01
1610176-MS3	Matrix Spike	10/31/16	11:05
C161005-62	Dup-22	10/31/16	11:08
1610210-CCV4	Calibration Check	10/31/16	11:14
1610210-CCB4	Calibration Blank	10/31/16	11:17
C161005-65	Dup-23	10/31/16	11:20
C161005-68	FB-07	10/31/16	11:23
C161005-71	FB-16	10/31/16	11:26
C161005-74	M07	10/31/16	11:29
C161005-77	M08	10/31/16	11:32
C161005-80	M10	10/31/16	11:35
C161005-83	M10A	10/31/16	11:38
C161005-86	M10B	10/31/16	11:41
C161005-89	M11	10/31/16	11:44
1610210-CCV5	Calibration Check	10/31/16	11:50
1610210-CCB5	Calibration Blank	10/31/16	11:54
C161005-92	M12	10/31/16	11:57
C161005-95	M12A	10/31/16	12:00
C161005-98	M12B	10/31/16	12:03
C161005-AB	M12C	10/31/16	12:05
C161005-AE	M12D	10/31/16	12:08
C161005-AH	M13A	10/31/16	12:12
1610210-CCV6	Calibration Check	10/31/16	12:17
1610210-CCB6	Calibration Blank	10/31/16	12:21
1610177-BLK1	Blank	10/31/16	12:26
1610177-SRM1	Reference	10/31/16	12:29
C161005-AK	M13B	10/31/16	12:33
1610177-DUP1	Duplicate	10/31/16	12:36
1610210-SRD3	Serial Dilution	10/31/16	12:39
1610177-MS1	Matrix Spike	10/31/16	12:42
C161005-AN	M13D	10/31/16	12:45
1610177-MS3	Matrix Spike	10/31/16	12:48
C161005-AO	M14	10/31/16	12:51

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1610210

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610210-CCV7	Calibration Check	10/31/16	12:57
1610210-CCB7	Calibration Blank	10/31/16	13:00
C161005-AT	M14A	10/31/16	13:03
C161005-AW	M14B	10/31/16	13:06
C161005-AZ	M14B	10/31/16	13:09
C161005-BC	M15	10/31/16	13:12
C161005-BF	M16	10/31/16	13:15
C161005-BI	M16A	10/31/16	13:19
C161005-BL	M16B	10/31/16	13:23
C161005-BO	M16C	10/31/16	13:27
C161005-BR	M16D	10/31/16	13:31
1610210-CCV8	Calibration Check	10/31/16	13:37
1610210-CCB8	Calibration Blank	10/31/16	13:40
C161005-BU	M16E	10/31/16	13:43
C161005-BX	M16F	10/31/16	13:46
C161005-CA	M16G	10/31/16	13:50
C161005-CD	M16H	10/31/16	13:53
C161005-CG	M17	10/31/16	13:56
C161005-CJ	M17A	10/31/16	13:59
C161005-CM	M18	10/31/16	14:02
1610210-CCV9	Calibration Check	10/31/16	14:08
1610210-CCB9	Calibration Blank	10/31/16	14:11

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1610211

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610211-ICV1	Initial Cal Check	10/31/16	08:17
1610211-SCV1	Secondary Cal Check	10/31/16	08:20
1610211-ICB1	Initial Cal Blank	10/31/16	08:24
1610211-CRL1	Instrument RL Check	10/31/16	08:27
1610211-IFA1	Interference Check A	10/31/16	08:30
1610211-IFB1	Interference Check B	10/31/16	08:33
1610175-BLK2	Blank	10/31/16	08:37
C161005-01	CC-01B	10/31/16	08:40
1610175-DUP2	Duplicate	10/31/16	08:43
1610211-SRD1	Serial Dilution	10/31/16	08:46
1610175-SRM2	Reference	10/31/16	08:49
1610175-MS2	Matrix Spike	10/31/16	08:52
C161005-03	CC39	10/31/16	08:55
1610175-MS4	Matrix Spike	10/31/16	08:58
C161005-06	CC39B	10/31/16	09:01
1610211-CCV1	Calibration Check	10/31/16	09:08
1610211-CCB1	Calibration Blank	10/31/16	09:11
C161005-09	CC41	10/31/16	09:14
C161005-12	CC42	10/31/16	09:17
C161005-15	CC42F	10/31/16	09:20
C161005-18	CC43C	10/31/16	09:24
C161005-20	CC43E	10/31/16	09:27
C161005-23	CC46B	10/31/16	09:30
C161005-26	CC47C	10/31/16	09:33
C161005-29	CC48	10/31/16	09:36
C161005-32	Dup-12	10/31/16	09:39
1610211-CCV2	Calibration Check	10/31/16	09:45
1610211-CCB2	Calibration Blank	10/31/16	09:48
C161005-35	Dup-13	10/31/16	09:52
C161005-38	Dup-14	10/31/16	09:55
C161005-41	Dup-15	10/31/16	09:58
C161005-44	Dup-16	10/31/16	10:01
C161005-47	Dup-17	10/31/16	10:04
C161005-50	Dup-18	10/31/16	10:07
C161005-53	Dup-19	10/31/16	10:10
1610211-CCV3	Calibration Check	10/31/16	10:16
1610211-CCB3	Calibration Blank	10/31/16	10:20
1610176-BLK2	Blank	10/31/16	10:25

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1610211

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
C161005-56	Dup-20	10/31/16	10:28
1610176-DUP2	Duplicate	10/31/16	10:31
1610211-SRD2	Serial Dilution	10/31/16	10:34
1610176-SRM2	Reference	10/31/16	10:37
1610176-MS2	Matrix Spike	10/31/16	10:40
C161005-59	Dup-21	10/31/16	10:43
1610176-MS4	Matrix Spike	10/31/16	10:47
C161005-62	Dup-22	10/31/16	10:50
1610211-CCV4	Calibration Check	10/31/16	10:56
1610211-CCB4	Calibration Blank	10/31/16	10:59
C161005-65	Dup-23	10/31/16	11:02
C161005-68	FB-07	10/31/16	11:06
C161005-74	M07	10/31/16	11:12
C161005-77	M08	10/31/16	11:15
C161005-80	M10	10/31/16	11:18
C161005-83	M10A	10/31/16	11:21
C161005-86	M10B	10/31/16	11:24
C161005-89	M11	10/31/16	11:27
1610211-CCV5	Calibration Check	10/31/16	11:33
1610211-CCB5	Calibration Blank	10/31/16	11:37
C161005-92	M12	10/31/16	11:40
C161005-95	M12A	10/31/16	11:43
C161005-98	M12B	10/31/16	11:46
C161005-AB	M12C	10/31/16	11:49
C161005-AE	M12D	10/31/16	11:52
C161005-AH	M13A	10/31/16	11:55
1610211-CCV6	Calibration Check	10/31/16	12:02
1610211-CCB6	Calibration Blank	10/31/16	12:05
1610177-BLK2	Blank	10/31/16	12:10
C161005-AK	M13B	10/31/16	12:13
1610177-DUP2	Duplicate	10/31/16	12:16
1610211-SRD3	Serial Dilution	10/31/16	12:19
1610177-SRM2	Reference	10/31/16	12:22
1610177-MS2	Matrix Spike	10/31/16	12:25
C161005-AN	M13D	10/31/16	12:29
1610177-MS4	Matrix Spike	10/31/16	12:32
C161005-AO	M14	10/31/16	12:35
1610211-CCV7	Calibration Check	10/31/16	12:41

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1610211

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610211-CCB7	Calibration Blank	10/31/16	12:44
C161005-AT	M14A	10/31/16	12:48
C161005-AW	M14B	10/31/16	12:51
C161005-AZ	M14B	10/31/16	12:54
C161005-BC	M15	10/31/16	12:57
C161005-BF	M16	10/31/16	13:00
C161005-BI	M16A	10/31/16	13:03
C161005-BL	M16B	10/31/16	13:06
C161005-BO	M16C	10/31/16	13:09
C161005-BR	M16D	10/31/16	13:12
1610211-CCV8	Calibration Check	10/31/16	13:18
1610211-CCB8	Calibration Blank	10/31/16	13:22
C161005-BU	M16E	10/31/16	13:25
C161005-BX	M16F	10/31/16	13:28
C161005-CA	M16G	10/31/16	13:31
C161005-CD	M16H	10/31/16	13:34
C161005-CG	M17	10/31/16	13:37
C161005-CJ	M17A	10/31/16	13:40
C161005-CM	M18	10/31/16	13:44
1610211-CCV9	Calibration Check	10/31/16	13:50
1610211-CCB9	Calibration Blank	10/31/16	13:53

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1611011

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1611011-ICV1	Initial Cal Check	11/01/16	07:58
1611011-SCV1	Secondary Cal Check	11/01/16	08:02
1611011-ICB1	Initial Cal Blank	11/01/16	08:05
1611011-CRL1	Instrument RL Check	11/01/16	08:08
1611011-IFA1	Interference Check A	11/01/16	08:10
1611011-IFB1	Interference Check B	11/01/16	08:14
1610178-BLK1	Blank	11/01/16	08:18
1610178-SRM1	Reference	11/01/16	08:21
C161005-CP	M19	11/01/16	08:24
1610178-DUP1	Duplicate	11/01/16	08:27
1611011-SRD1	Serial Dilution	11/01/16	08:30
1610178-MS1	Matrix Spike	11/01/16	08:34
C161005-CS	M20	11/01/16	08:37
1610178-MS3	Matrix Spike	11/01/16	08:40
C161005-CV	M20	11/01/16	08:42
1611011-CCV1	Calibration Check	11/01/16	08:48
1611011-CCB1	Calibration Blank	11/01/16	08:51
C161005-CY	M22	11/01/16	08:54
C161005-DB	M23	11/01/16	08:58
C161005-DE	M24A	11/01/16	09:00
C161005-DH	M24B	11/01/16	09:03
C161005-DJ	M24C	11/01/16	09:06
C161005-DM	M24CROM	11/01/16	09:09
C161005-DP	M24D	11/01/16	09:12
C161005-DS	M25	11/01/16	09:16
C161005-DV	M26	11/01/16	09:19
1611011-CCV2	Calibration Check	11/01/16	09:25
1611011-CCB2	Calibration Blank	11/01/16	09:28
C161005-DY	M26B	11/01/16	09:31
C161005-EB	M26D	11/01/16	09:34
C161005-EE	M27	11/01/16	09:37
C161005-EH	M27	11/01/16	09:40
C161005-EK	M27A	11/01/16	09:43
C161005-EN	M27A	11/01/16	09:46
1611011-CCV3	Calibration Check	11/01/16	09:52
1611011-CCB3	Calibration Blank	11/01/16	09:55
1610184-BLK1	Blank	11/01/16	10:00
1610184-SRM1	Reference	11/01/16	10:03

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.7 **Total Recoverable** **Sequence ID#:** 1611011

Instrument ID #: ICPOE - PE Optima Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
C161005-EO	M28	11/01/16	10:06
1610184-DUP1	Duplicate	11/01/16	10:09
1611011-SRD2	Serial Dilution	11/01/16	10:12
1610184-MS1	Matrix Spike	11/01/16	10:15
C161005-ET	M28	11/01/16	10:18
C161005-EW	M29	11/01/16	10:22
C161005-EZ	M30	11/01/16	10:25
1611011-CCV4	Calibration Check	11/01/16	10:34
1611011-CCB4	Calibration Blank	11/01/16	10:37
C161005-FC	M30	11/01/16	10:41
C161005-FF	M32	11/01/16	10:44
C161005-FI	M33	11/01/16	10:47
C161005-FL	M34	11/01/16	10:50
C161005-FO	M34	11/01/16	10:53
C161005-FR	M38	11/01/16	10:56
1611011-CCV5	Calibration Check	11/01/16	11:05
1611011-CCB5	Calibration Blank	11/01/16	11:08

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1611012

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1611012-ICV1	Initial Cal Check	11/01/16	07:42
1611012-SCV1	Secondary Cal Check	11/01/16	07:45
1611012-ICB1	Initial Cal Blank	11/01/16	07:49
1611012-CRL1	Instrument RL Check	11/01/16	07:52
1611012-IFA1	Interference Check A	11/01/16	07:55
1611012-IFB1	Interference Check B	11/01/16	07:59
1610178-BLK2	Blank	11/01/16	08:02
C161005-CP	M19	11/01/16	08:05
1610178-DUP2	Duplicate	11/01/16	08:08
1611012-SRD1	Serial Dilution	11/01/16	08:11
1610178-SRM2	Reference	11/01/16	08:14
1610178-MS2	Matrix Spike	11/01/16	08:17
C161005-CS	M20	11/01/16	08:20
1610178-MS4	Matrix Spike	11/01/16	08:24
C161005-CV	M20	11/01/16	08:27
1611012-CCV1	Calibration Check	11/01/16	08:33
1611012-CCB1	Calibration Blank	11/01/16	08:36
C161005-CY	M22	11/01/16	08:39
C161005-DB	M23	11/01/16	08:43
C161005-DE	M24A	11/01/16	08:46
C161005-DH	M24B	11/01/16	08:49
C161005-DJ	M24C	11/01/16	08:52
C161005-DM	M24CROM	11/01/16	08:55
C161005-DP	M24D	11/01/16	08:58
C161005-DS	M25	11/01/16	09:01
C161005-DV	M26	11/01/16	09:04
1611012-CCV2	Calibration Check	11/01/16	09:10
1611012-CCB2	Calibration Blank	11/01/16	09:14
C161005-DY	M26B	11/01/16	09:17
C161005-EB	M26D	11/01/16	09:20
C161005-EE	M27	11/01/16	09:23
C161005-EH	M27	11/01/16	09:26
C161005-EK	M27A	11/01/16	09:29
C161005-EN	M27A	11/01/16	09:32
1611012-CCV3	Calibration Check	11/01/16	09:38
1611012-CCB3	Calibration Blank	11/01/16	09:42
1610184-BLK2	Blank	11/01/16	09:47
C161005-EO	M28	11/01/16	09:50

Project Name: **Bonita Peak_Water 3_OCT_2016_A119** **Certificate of Analysis**

TDF #: **A-119**

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1611012

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1610184-DUP2	Duplicate	11/01/16	09:53
1611012-SRD2	Serial Dilution	11/01/16	09:56
1610184-SRM2	Reference	11/01/16	09:59
1610184-MS2	Matrix Spike	11/01/16	10:02
C161005-ET	M28	11/01/16	10:05
C161005-EW	M29	11/01/16	10:08
C161005-EZ	M30	11/01/16	10:11
1611012-CCV4	Calibration Check	11/01/16	10:18
1611012-CCB4	Calibration Blank	11/01/16	10:21
C161005-FC	M30	11/01/16	10:24
C161005-FF	M32	11/01/16	10:27
C161005-FI	M33	11/01/16	10:30
C161005-FL	M34	11/01/16	10:33
C161005-FO	M34	11/01/16	10:37
C161005-FR	M38	11/01/16	10:40
1611012-CCV5	Calibration Check	11/01/16	10:46
1611012-CCB5	Calibration Blank	11/01/16	10:49

TechLaw Inc., ESAT Region 8

INSTRUMENT ANALYSIS SEQUENCE LOG

Analytical Method: 200.8 **Total Recoverable** **Sequence ID#:** 1611074

Instrument ID #: ICPMS-PE DRC-II Water **LSR #:** A-119

Analysis ID	Sample Name	Analysis Date	Analysis Time
1611074-ICV1	Initial Cal Check	11/07/16	09:55
1611074-SCV1	Secondary Cal Check	11/07/16	09:58
1611074-ICB1	Initial Cal Blank	11/07/16	10:01
1611074-CRL1	Instrument RL Check	11/07/16	10:05
1611074-IFA1	Interference Check A	11/07/16	10:08
1611074-IFB1	Interference Check B	11/07/16	10:11
1611074-CCV1	Calibration Check	11/07/16	14:35
1611074-CCB1	Calibration Blank	11/07/16	14:38
C161005-71	FB-16	11/07/16	14:48
1611074-CCV2	Calibration Check	11/07/16	14:54
1611074-CCB2	Calibration Blank	11/07/16	14:57

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1292	A	A07	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1035	BS
✓	A8M5-1292	B	A07	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1292	C	A07	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1293	D	A07	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1294	E	A07	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1295	F	A07	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1295	G	A07	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1295	H	A07	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1296	A	BG4	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1296	B	BG4	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1296	C	BG4	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1297	D	BG4	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1298	E	BG4	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1299	A	A07A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1235	BS
✓	A8M5-1299	B	A07A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1299	C	A07A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1300	D	A07A	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1301	E	A07A	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1302	A	BB1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/3/16	[illegible]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1302	B	BB1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1302	C	BB1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1303	A	BB2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1303	B	BB2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1303	C	BB2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1304	D	BB2	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1305	E	BB2	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1306	A	DM8A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1306	B	DM8A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1306	C	DM8A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1307	D	DM8A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1308	E	DM8A	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1309	A	A07B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1310	BS
✓	A8M5-1309	B	A07B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			BS
✓	A8M5-1309	C	A07B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			BS
✓	A8M5-1310	D	A07B	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1311	E	A07B	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1312	A	DM5	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1312	B	DM5	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1312	C	DM5	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1313	A	DM6	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1415	BS
✓	A8M5-1313	B	DM6	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1313	C	DM6	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1314	A	DM7	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1335	BS
✓	A8M5-1314	B	DM7	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1314	C	DM7	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1315	A	A07C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1315	B	A07C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1315	C	A07C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1316	A	A07D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1316	B	A07D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1316	C	A07D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1317	D	A07D	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1318	E	A07D	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1319	A	A07E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1319	B	A07E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1319	C	A07E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1320	D	A07E	Sediment	TRM_Hg_Soil	4oz glass jar			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1321	E	A07E	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1322	A	A07F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1322	B	A07F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1322	C	A07F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1323	D	A07F	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1324	E	A07F	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1325	A	A07G	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1325	B	A07G	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1325	C	A07G	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1326	D	A07G	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1327	E	A07G	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1328	A	BG1A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1328	B	BG1A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1328	C	BG1A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1329	D	BG1A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1330	E	BG1A	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1331	A	A05	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	11:40	BS
✓	A8M5-1331	B	A05	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1331	C	A05	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1332	D	A05	Sediment	TRM_Hg_Soil	4oz glass jar	9/30/16	1140	BS
✓	A8M5-1333	E	A05	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1334	F	A05	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1140	
✓	A8M5-1334	G	A05	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1334	H	A05	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1335	A	A08	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	9:25	BS
✓	A8M5-1335	B	A08	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1335	C	A08	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1336	D	A08	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1337	E	A08	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1338	F	A08	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1338	G	A08	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1338	H	A08	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1339	A	A21	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1230	WB
✓	A8M5-1339	B	A21	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1339	C	A21	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1340	D	A21	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1341	E	A21	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1342	A	A21A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1330	WB

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1342	B	A21A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/30/16	1330	WB
✓	A8M5-1342	C	A21A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1343	A	A22	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1400	WB
✓	A8M5-1343	B	A22	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1343	C	A22	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1344	D	A22	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1345	E	A22	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1346	A	A20	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	11~~20~~ 15 no wsh	SA
✓	A8M5-1346	B	A20	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1346	C	A20	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1347	D	A20	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1348	E	A20	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1349	F	A20	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1349	G	A20	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1349	H	A20	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1350	A	A15	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1230	SA
✓	A8M5-1350	B	A15	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1350	C	A15	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1351	D	A15	Sediment	TRM_Hg_Soil	4oz glass jar			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1352	E	A15	Soil	TRM_Hg_Soil	4oz glass jar	9/30/16	1230	SA
✓	A8M5-1353	F	A15	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1353	G	A15	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1353	H	A15	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1354	A	A13	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1340	SA
✓	A8M5-1354	B	A13	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1354	C	A13	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1355	D	A13	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1356	E	A13	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1357	A	A19	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1357	B	A19	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1357	C	A19	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1358	D	A19	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1359	E	A19	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1360	A	A19A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	935	MM
✓	A8M5-1360	B	A19A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1360	C	A19A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED		
	A8M5-1361	A	A18	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1361	B	A18	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

Special Instructions:

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USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1361	C	A18	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1362	D	A18	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1363	E	A18	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1364	A	A18A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1364	B	A18A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1364	C	A18A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1365	D	A18A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1366	E	A18A	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1367	A	A18B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1367	B	A18B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1367	C	A18B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1368	D	A18B	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1369	E	A18B	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1370	A	CG3	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1370	B	CG3	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1370	C	CG3	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1371	D	CG3	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1372	E	CG3	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1373	A	A16	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/23/16	1045	KB

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Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1373	B	A16	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1045	KB
	A8M5-1373	C	A16	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED	→	
✓	A8M5-1374	A	CG6	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1540	WB
✓	A8M5-1374	B	CG6	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1374	C	CG6	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1375	D	CG6	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1376	E	CG6	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-1377	A	CG5	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1377	B	CG5	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1377	C	CG5	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1378	A	CG4	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1378	B	CG4	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1378	C	CG4	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1379	D	CG4	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1380	E	CG4	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1381	A	A11	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1000 9/30/16	DC WB
✓	A8M5-1381	B	A11	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
*	A8M5-1381	C	A11	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	→	→	→ not collected DC
✓	A8M5-1382	D	A11	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1383	E	A11	Soil	TRM_Hg_Soil	4oz glass jar	9/30/16	1000	WB
✓	A8M5-1384	A	A12	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	11:30	KB
✓	A8M5-1384	B	A12	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1384	C	A12	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED		→
	A8M5-1385	D	A12	Sediment	TRM_Hg_Soil	4oz glass jar	↓		
	A8M5-1386	E	A12	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1387	A	CG9	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1100	WB
✓	A8M5-1387	B	CG9	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1387	C	CG9	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1388	D	CG9	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1389	E	CG9	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1390	A	CG12A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1390	B	CG12A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1390	C	CG12A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1391	A	CG11	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1000	SA
✓	A8M5-1391	B	CG11	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1391	C	CG11	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1392	D	CG11	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1393	E	CG11	Soil	TRM_Hg_Soil	4oz glass jar			

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/5/16	[signature]	10/5/16	1205						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1394	A	A11A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	915	SA
✓	A8M5-1394	B	A11A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1394	C	A11A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1395	A	UA5	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1395	B	UA5	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1395	C	UA5	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1396	D	UA5	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1397	E	UA5	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1398	A	A14	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1405	RT
✓	A8M5-1398	B	A14	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1398	C	A14	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1399	D	A14	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1400	E	A14	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1401	F	A14	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	↓	↓	↓
✓	A8M5-1401	G	A14	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1401	H	A14	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1402	A	A09	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1505	RT
✓	A8M5-1402	B	A09	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1402	C	A09	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

Special Instructions:

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1403	D	A09	Sediment	TRM_Hg_Soil	4oz glass jar	9/29/16	1505	RT
✓	A8M5-1404	E	A09	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1405	F	A09	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1405	G	A09	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1405	H	A09	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/29/16		
✓	A8M5-1406	A	A10	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1540	RT
✓	A8M5-1406	B	A10	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1406	C	A10	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1407	D	A10	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1408	E	A10	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1409	F	A10	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1409	G	A10	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1409	H	A10	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1410	A	A28	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1410	B	A28	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1410	C	A28	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1411	D	A28	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1412	E	A28	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1413	A	A29	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/22/16	14:00	KB

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		10/3/16		10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1413	B	A29	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1400	KB
	A8M5-1413	C	A29	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
	A8M5-1414	A	A29A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1414	B	A29A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1414	C	A29A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1415	A	A30	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1415	B	A30	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1415	C	A30	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1416	D	A30	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1417	E	A30	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1418	A	A30A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1210	RT
✓	A8M5-1418	B	A30A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1418	C	A30A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1419	D	A30A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1420	E	A30A	Soil	TRM_Hg_Soil	4oz glass jar	not-collected →		
✓	A8M5-1421	A	DM22	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1310	KB
✓	A8M5-1421	B	DM22	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1421	C	DM22	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1422	A	A30B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1120	RT

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1422	B	A30B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/29/16	1120	KT
✓	A8M5-1422	C	A30B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1423	D	A30B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-1424	E	A30B	Soil	TRM_Hg_Soil	4oz glass jar	not collected		—
	A8M5-1425	A	A31	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1425	B	A31	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1425	C	A31	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1426	D	A31	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1427	E	A31	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1428	A	A32	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1428	B	A32	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1428	C	A32	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1429	D	A32	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1430	E	A32	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1431	A	EG2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1600	WB
✓	A8M5-1431	B	EG2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1600	WB
✓	A8M5-1431	C	EG2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1600	WB
✓	A8M5-1432	D	EG2	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1600	WB
✓	A8M5-1433	E	EG2	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1600	WB

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

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USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1434	A	EG2A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1530	WB
✓	A8M5-1434	B	EG2A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1530	WB
✓	A8M5-1434	C	EG2A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1530	WB
✓	A8M5-1435	D	EG2A	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1530	WB
✓	A8M5-1436	E	EG2A	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1530	WB
✓	A8M5-1437	A	EG4	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1330	WB
✓	A8M5-1437	B	EG4	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1330	WB
✓	A8M5-1437	C	EG4	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1330	WB
✓	A8M5-1438	D	EG4	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1330	WB
✓	A8M5-1439	E	EG4	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1330	WB
✓	A8M5-1440	A	EG1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1640	WB
✓	A8M5-1440	B	EG1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1640	WB
✓	A8M5-1440	C	EG1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1640	WB
✓	A8M5-1441	D	EG1	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1640	WB
✓	A8M5-1442	E	EG1	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1640	WB
✓	A8M5-1443	A	EG3	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1415	WB
✓	A8M5-1443	B	EG3	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1415	WB
✓	A8M5-1443	C	EG3	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1415	WB
✓	A8M5-1444	D	EG3	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1415	WB

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USEPA
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1445	E	EG3	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1415	WB
✓	A8M5-1446	A	EG3A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1300	WB
✓	A8M5-1446	B	EG3A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1300	WB
✓	A8M5-1446	C	EG3A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1300	WB
✓	A8M5-1447	D	EG3A	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1300	WB
✓	A8M5-1448	E	EG3A	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1300	WB
✓	A8M5-1449	A	DM32	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	12:40	WB
✓	A8M5-1449	B	DM32	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	12:40	WB
✓	A8M5-1449	C	DM32	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	12:40	WB
✓	A8M5-1450	A	EG5	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1615	SS
✓	A8M5-1450	B	EG5	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1450	C	EG5	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1451	D	EG5	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1452	E	EG5	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1453	A	ARD1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1700	SS
✓	A8M5-1453	B	ARD1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1453	C	ARD1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1454	A	A38	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1240	SS
✓	A8M5-1454	B	A38	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1454	C	A38	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1240	SS
✓	A8M5-1455	A	A39	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	13:25	SS
✓	A8M5-1455	B	A39	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1455	C	A39	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1456	D	A39	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1457	E	A39	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1458	A	EG6	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1130	EY
✓	A8M5-1458	B	EG6	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1458	C	EG6	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1459	D	EG6	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1460	E	EG6	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1461	A	MC0	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1450	EY
✓	A8M5-1461	B	MC0	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1461	C	MC0	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1462	D	MC0	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1463	E	MC0	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1464	A	A36	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16 ~~9/28/16~~ NB	~~1015~~ 1545	~~EY~~ SS NB 9/28/16
✓	A8M5-1464	B	A36	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1464	C	A36	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

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USEPA
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CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1465	D	A36	Sediment	TRM_Hg_Soil	4oz glass jar	KB 9/22/16 9/27/16 ~~NOT COLLECTED~~	1545	SS
✓	A8M5-1466	E	A36	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1467	F	A36	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1015	EY
✓	A8M5-1467	G	A36	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1467	H	A36	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1468	A	A37	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	17:00	SS
✓	A8M5-1468	B	A37	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/27/16	17:00	SS
✓	A8M5-1468	C	A37	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/27/16	17:00	SS
✓	A8M5-1469	D	A37	Sediment	TRM_Hg_Soil	4oz glass jar	9/27/16	17:00	WB
✓	A8M5-1470	E	A37	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	17:00	WB
✓	A8M5-1471	F	A37	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	9:20	EY
✓	A8M5-1471	G	A37	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1471	H	A37	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1472	A	EG9	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1415	SS
✓	A8M5-1472	B	EG9	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1472	C	EG9	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1473	D	EG9	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1474	E	EG9	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1475	A	DM24	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/27/16	1130	WB

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USEPA
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1475	B	DM24	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/27/16	1130	WB
✓	A8M5-1475	C	DM24	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/27/16	1130	WB
✓	A8M5-1476	A	A33	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/27/16	1230	SS
✓	A8M5-1476	B	A33	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/27/16	1230	SS
✓	A8M5-1476	C	A33	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/27/16	1230	SS
✓	A8M5-1477	D	A33	Sediment	TRM_Hg_Soil	4oz glass jar	09/27/16	1230	WB
✓	A8M5-1478	E	A33	Soil	TRM_Hg_Soil	4oz glass jar	09/27/16	1230	WB
✓	A8M5-1479	F	A33	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1100	WB
✓	A8M5-1479	G	A33	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1100	WB
✓	A8M5-1479	H	A33	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1100	WB
✓	A8M5-1480	A	A34	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/27/16	1000	SS
✓	A8M5-1480	B	A34	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/27/16	1000	SS
✓	A8M5-1480	C	A34	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/27/16	1000	SS
✓	A8M5-1481	D	A34	Sediment	TRM_Hg_Soil	4oz glass jar	09/27/16	1000	WB
✓	A8M5-1482	E	A34	Soil	TRM_Hg_Soil	4oz glass jar	09/27/16	1000	EY
✓	A8M5-1483	F	A34	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1050	~~WB~~ NB 10/3/16
✓	A8M5-1483	G	A34	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1483	H	A34	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1484	A	A35	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	0845	RO/SS

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USEPA
DateShipped:
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AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1484	B	A35	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	08:45	RG/SS
✓	A8M5-1484	C	A35	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	08:45	RG/SS
✓	A8M5-1485	D	A35	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	08:45	WB
✓	A8M5-1486	E	A35	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	08:45	WB
✓	A8M5-1487	F	A35	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	08:45	NB/SS
✓	A8M5-1487	G	A35	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	08:45	NB/SS
✓	A8M5-1487	H	A35	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	0845	NB/SS
✓	A8M5-1488	A	A41	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1800	RT
✓	A8M5-1488	B	A41	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1800	RT
✓	A8M5-1488	C	A41	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1800	RT
	A8M5-1489	A	A41C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	Dry	Dry	Dry
	A8M5-1489	B	A41C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1489	C	A41C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1490	D	A41C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-1491	E	A41C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1492	A	A40A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1020	RT
✓	A8M5-1492	B	A40A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1492	C	A40A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1493	D	A40A	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓

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USEPA
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1494	E	A40A	Soil	TRM_Hg_Soil	4oz glass jar	9/29/16	1070	RT
✓	A8M5-1495	A	A40	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	0915	RT
✓	A8M5-1495	B	A40	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1495	C	A40	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1496	D	A40	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1497	E	A40	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1498	F	A40	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1498	G	A40	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1498	H	A40	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1499	A	A42	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1110	RT
✓	A8M5-1499	B	A42	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1499	C	A42	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1500	D	A42	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1501	E	A42	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1502	A	A43	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3		1200	RT
✓	A8M5-1502	B	A43	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1502	C	A43	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1503	D	A43	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1504	E	A43	Soil	TRM_Hg_Soil	4oz glass jar			

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CHAIN OF CUSTODY #

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	[illegible]	10/3/16	[illegible]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1505	F	A43	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1200	RT
✓	A8M5-1505	G	A43	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1505	H	A43	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C		1200	
✓	A8M5-1506	A	LA3	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1010	RT
✓	A8M5-1506	B	LA3	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1506	C	LA3	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1507	D	LA3	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1508	E	LA3	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1509	A	A41A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	0830	RT
✓	A8M5-1509	B	A41A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1509	C	A41A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1510	D	A41A	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1511	E	A41A	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1512	F	A41A	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1512	G	A41A	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1512	H	A41A	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1513	A	A45	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	850	RT
✓	A8M5-1513	B	A45	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1513	C	A45	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

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USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1514	D	A45	Sediment	TRM_Hg_Soil	4oz glass jar	9/28/16	0850	RT
✓	A8M5-1515	E	A45	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1516	F	A45	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1516	G	A45	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1516	H	A45	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1517	A	PWMLO1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1320	RT
✓	A8M5-1517	B	PWMLO1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1320	RT
✓	A8M5-1517	C	PWMLO1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1320	RT
✓	A8M5-1518	A	PWMLO2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1315	RT
✓	A8M5-1518	B	PWMLO2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1315	RT
✓	A8M5-1518	C	PWMLO2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1315	RT
✓	A8M5-1519	A	PWMLP1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1415	RT
✓	A8M5-1519	B	PWMLP1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1415	
✓	A8M5-1519	C	PWMLP1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1415	
✓	A8M5-1520	D	PWMLP1	Sediment	TRM_Hg_Soil	4oz glass jar	9/28/16	1415	
✓	A8M5-1521	E	PWMLP1	Soil	TRM_Hg_Soil	4oz glass jar	9/28/16	1415	
✓	A8M5-1522	A	PWMLP2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1400	
✓	A8M5-1522	B	PWMLP2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1400	
✓	A8M5-1522	C	PWMLP2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1400	

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USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1523	D	PWMLP2	Sediment	TRM_Hg_Soil	4oz glass jar	9/28/16	1400	RT
✓	A8M5-1524	E	PWMLP2	Soil	TRM_Hg_Soil	4oz glass jar	9/28/16	1400	RT
✓	A8M5-1525	A	A47	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1450	RT
✓	A8M5-1525	B	A47	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1525	C	A47	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1526	D	A47	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1527	E	A47	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1528	A	A48	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1700	RT
✓	A8M5-1528	B	A48	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1528	C	A48	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1529	D	A48	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1530	E	A48	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1531	F	A48	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1531	G	A48	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1531	H	A48	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1532	A	A55	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1515	RT
✓	A8M5-1532	B	A55	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45		1515	
✓	A8M5-1532	C	A55	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C		1515	
✓	A8M5-1533	D	A55	Sediment	TRM_Hg_Soil	4oz glass jar		1515	

Special Instructions:	**SAMPLES TRANSFERRED FROM**
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Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1534	E	A55	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	1515	RT
✓	A8M5-1535	F	A55	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1535	G	A55	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1535	H	A55	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1536	A	A50	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1715	RT
✓	A8M5-1536	B	A50	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1536	C	A50	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1537	D	A50	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1538	E	A50	Soil	TRM_Hg_Soil	4oz glass jar	No Sample		
✓	A8M5-1539	A	CU4	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1620	RT
✓	A8M5-1539	B	CU4	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1539	C	CU4	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1540	D	CU4	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1541	E	CU4	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1542	A	CU4a	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1530	RT
✓	A8M5-1542	B	CU4a	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1542	C	CU4a	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1543	D	CU4a	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1544	E	CU4a	Soil	TRM_Hg_Soil	4oz glass jar			

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USEPA
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CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1545	A	A54	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1545	B	A54	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1545	C	A54	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1546	A	DM56	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1525	KB
✓	A8M5-1546	B	DM56	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1546	C	DM56	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1547	A	A55a	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1615	RT
✓	A8M5-1547	B	A55a	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1547	C	A55a	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1548	D	A55a	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1549	E	A55a	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1550	A	A56	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1255	RT
✓	A8M5-1550	B	A56	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1550	C	A56	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1551	D	A56	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1552	E	A56	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1553	F	A56	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	↓	↓	↓
✓	A8M5-1553	G	A56	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1553	H	A56	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

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USEPA
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1554	A	A58	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1554	B	A58	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1554	C	A58	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1555	D	A58	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1556	E	A58	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1557	A	A60	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1557	B	A60	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1557	C	A60	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1558	D	A60	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1559	E	A60	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1560	A	A61	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1560	B	A61	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1560	C	A61	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1561	D	A61	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1562	E	A61	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1563	A	A64	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1563	B	A64	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1563	C	A64	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1564	D	A64	Sediment	TRM_Hg_Soil	4oz glass jar			

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1565	E	A64	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1566	A	A65	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1155	RT
✓	A8M5-1566	B	A65	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1566	C	A65	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1567	D	A65	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1568	E	A65	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1569	A	A66	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1110	RT
✓	A8M5-1569	B	A66	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1569	C	A66	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1570	D	A66	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1571	E	A66	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1572	A	A68	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1025	RT
✓	A8M5-1572	B	A68	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1572	C	A68	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1573	D	A68	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1574	E	A68	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1575	A	A72	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	0926	RT
✓	A8M5-1575	B	A72	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1575	C	A72	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1576	D	A72	Sediment	TRM_Hg_Soil	4oz glass jar	9/27/16	0926	RT
✓	A8M5-1577	E	A72	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	0926	RT
	A8M5-1578	A	A75D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1578	B	A75D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1578	C	A75D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1579	D	A75D	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1580	E	A75D	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1581	A	A75B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1581	B	A75B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1581	C	A75B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1582	D	A75B	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1583	E	A75B	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1584	A	A75CC	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1584	B	A75CC	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1584	C	A75CC	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1585	D	A75CC	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1586	E	A75CC	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1587	A	A73	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1587	B	A73	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		10/3/16		10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1587	C	A73	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1588	D	A73	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1589	E	A73	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1590	A	A73B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1590	B	A73B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1590	C	A73B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1591	D	A73B	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1592	E	A73B	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1593	A	A73EC	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1593	B	A73EC	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1593	C	A73EC	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1594	D	A73EC	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1595	E	A73EC	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1596	A	Bakers Bridge	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1596	B	Bakers Bridge	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1596	C	Bakers Bridge	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1597	D	Bakers Bridge	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1598	E	Bakers Bridge	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1599	A	A26	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1300	RT

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/3/16	[illegible]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1599	B	A26	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/29/16	1300	RT
✓	A8M5-1599	C	A26	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1600	D	A26	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1601	E	A26	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1602	F	A26	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1300	SA
✓	A8M5-1602	G	A26	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1602	H	A26	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1603	A	HC01	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1603	B	HC01	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1603	C	HC01	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1604	D	HC01	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1605	E	HC01	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1606	F	HC01	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1606	G	HC01	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1606	H	HC01	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1607	A	Dup-01	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	17:00	SS
✓	A8M5-1607	B	Dup-01	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/27/16	17:00	SS
✓	A8M5-1607	C	Dup-01	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/27/16	17:00	SS
✓	A8M5-1608	D	Dup-01	Sediment	TRM_Hg_Soil	4oz glass jar	9/27/16	17:00	WB

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1609	E	Dup-01	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	1700	SS
	A8M5-1610	F	Dup-01	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	NOT COLLECTED		
	A8M5-1610	G	Dup-01	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1610	H	Dup-01	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1611	A	Dup-02	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1700	RT
✓	A8M5-1611	B	Dup-02	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1611	C	Dup-02	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1612	D	Dup-02	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1613	E	Dup-02	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1614	F	Dup-02	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1614	G	Dup-02	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1614	H	Dup-02	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1615	A	Dup-03	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1620	RT
✓	A8M5-1615	B	Dup-03	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1615	C	Dup-03	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1616	D	Dup-03	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1617	E	Dup-03	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1618	F	Dup-03	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-1618	G	Dup-03	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		10/2/16		10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1618	H	Dup-03	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1620	RT
✓	A8M5-1619	A	Dup-04	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/23/16	11:30	KB
✓	A8M5-1619	B	Dup-04	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1619	C	Dup-04	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
	A8M5-1620	D	Dup-04	Sediment	TRM_Hg_Soil	4oz glass jar	↓		
	A8M5-1621	E	Dup-04	Soil	TRM_Hg_Soil	4oz glass jar	↓		
✓	A8M5-1622	A	Dup-05	~~Surface~~ Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/23/16	920	EY
✓	A8M5-1622	B	Dup-05	~~Surface~~ Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1622	C	Dup-05 9/28/16	~~Surface~~ Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1623	D	Dup-05	Sediment	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED →		
	A8M5-1624	E	Dup-05	Soil	TRM_Hg_Soil	4oz glass jar	↓		
	A8M5-1625	A	Dup-06	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	~~09/29/16~~	~~1600~~	
	A8M5-1625	B	Dup-06	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	~~09/29/16~~	~~1600~~	
	A8M5-1625	C	Dup-06	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	~~09/29/16~~	~~1600~~	
	A8M5-1626	D	Dup-06	Sediment	TRM_Hg_Soil	4oz glass jar	~~09/29/16~~		
	A8M5-1627	E	Dup-06	Soil	TRM_Hg_Soil	4oz glass jar	~~09/29/16~~		
✓	A8M5-1628	A	Dup-07	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1600	WB
✓	A8M5-1628	B	Dup-07	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1600	WB
✓	A8M5-1628	C	Dup-07	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1600	WB

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1629	D	Dup-07	Sediment	TRM_Hg_Soil	4oz glass jar	09/29/16	1600	WB
✓	A8M5-1630	E	Dup-07	Soil	TRM_Hg_Soil	4oz glass jar	09/29/16	1600	WB
✓	A8M5-1631	A	Dup-08	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1540	RT
✓	A8M5-1631	B	Dup-08	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1631	C	Dup-08	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1632	D	Dup-08	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1633	E	Dup-08	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1634	A	Dup-08	Pore ~~Surface~~ Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	↓	↓	↓
✓	A8M5-1634	B	Dup-08 KB 10/3/16	Pore ~~Surface~~ Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1634	C	Dup-08	Pore ~~Surface~~ Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1635	D	Dup-09	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1636	E	Dup-09	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1637	A	Dup-10	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1637	B	Dup-10	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1637	C	Dup-10	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1638	D	Dup-10	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1639	E	Dup-10	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1640	A	Dup-11	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1640	B	Dup-11	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Animas
Cooler #:
Lab: ESAT Region 8
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1640	C	Dup-11	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1641	A	FB-01	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1858	RT
✓	A8M5-1641	B	FB-01	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/27/16	1858	RT
✓	A8M5-1641	C	FB-01	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1642	A	FB-02	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1700	RT
✓	A8M5-1642	B	FB-02	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1642	C	FB-02	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1700	RT
✓	A8M5-1643	A	FB-03	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1720	EY
✓	A8M5-1643	B	FB-03	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	09/29/16	1720	EY
✓	A8M5-1643	C	FB-03	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	09/29/16	1720	EY
✓	A8M5-1644	A	FB-04	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1235	BS
✓	A8M5-1644	B	FB-04	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1644	C	FB-04	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1645	A	FB-05	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1645	B	FB-05	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1645	C	FB-05	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1646	A	FB-06	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1646	B	FB-06	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1646	C	FB-06	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/5/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1915	A	M01	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1915	B	M01	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1915	C	M01	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1916	D	M01	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1917	E	M01	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1918	A	M02	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1918	B	M02	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1918	C	M02	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1919	D	M02	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1920	E	M02	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1921	A	M02L	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1921	B	M02L	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1921	C	M02L	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1922	D	M02L	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1923	E	M02L	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1924	A	M02B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1924	B	M02B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1924	C	M02B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1925	A	M02K	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1925	B	M02K	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1925	C	M02K	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1926	A	M02D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1926	B	M02D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1926	C	M02D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1927	A	LFK9	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1927	B	LFK9	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1927	C	LFK9	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1928	D	LFK9	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1929	E	LFK9	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1930	A	M03	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1930	B	M03	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1930	C	M03	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1931	D	M03	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1932	E	M03	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1933	A	M04	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1933	B	M04	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1933	C	M04	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1934	D	M04	Sediment	TRM_Hg_Soil	4oz glass jar			

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Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1935	E	M04	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1936	A	M05	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1936	B	M05	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1936	C	M05	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1937	D	M05	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1938	E	M05	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1939	A	M06	Sediment	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1939	B	M06	Sediment	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1939	C	M06	Sediment	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1939	D	M06	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1940	E	M06	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1941	A	M06A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1941	B	M06A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1941	C	M06A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1942	D	M06A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1943	E	M06A	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1944	A	M06B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1944	B	M06B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1944	C	M06B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

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Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1945	A	M06C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1945	B	M06C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1945	C	M06C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1946	D	M06C	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1947	E	M06C	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1948	A	M06D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1948	B	M06D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1948	C	M06D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1949	D	M06D	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1950	E	M06D	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1951	A	M06E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1951	B	M06E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1951	C	M06E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1952	D	M06E	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1953	E	M06E	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1954	A	M07	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1430	SG
✓	A8M5-1954	B	M07	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1954	C	M07	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1955	D	M07	Sediment	TRM_Hg_Soil	4oz glass jar			

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CHAIN OF CUSTODY RECORD

Site #: A85M

Contact Name: ESAT

Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral

Cooler #:

Lab: ESAT Region 8 Laboratory

Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1956	E	M07	Soil	TRM_Hg_Soil	4oz glass jar	9-30-16	1430	~~SG~~ IB
✓	A8M5-1957	A	M08	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1515	SG / IB
✓	A8M5-1957	B	M08	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1957	C	M08	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1958	D	M08	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1959	E	M08	Soil	TRM_Hg_Soil	4oz glass jar	9/30/16	1515	SG/IB
	A8M5-1960	F	M08	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1960	G	M08	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1960	H	M08	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1961	A	M10	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1315	SG
✓	A8M5-1961	B	M10	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			SG
✓	A8M5-1961	C	M10	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			SG
✓	A8M5-1962	D	M10	Sediment	TRM_Hg_Soil	4oz glass jar			IB
✓	A8M5-1963	E	M10	Soil	TRM_Hg_Soil	4oz glass jar			IB
✓	A8M5-1964	A	M10A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1330	SG
✓	A8M5-1964	B	M10A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1964	C	M10A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1965	D	M10A	Sediment	TRM_Hg_Soil	4oz glass jar			IB
✓	A8M5-1966	E	M10A	Soil	TRM_Hg_Soil	4oz glass jar			IB

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CHAIN OF CUSTODY RECORD
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Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1967	F	M10A	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	~~9-30-16~~ KB 10/3/16	~~1330~~	~~SG~~
	A8M5-1967	G	M10A	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1967	H	M10A	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1968	A	M10B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1400	SG
✓	A8M5-1968	B	M10B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9-30-16	1400	SG
✓	A8M5-1968	C	M10B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9-30-16	1400	SG
✓	A8M5-1969	D	M10B	Sediment	TRM_Hg_Soil	4oz glass jar	9-30-16	1400	JB
✓	A8M5-1970	E	M10B	Soil	TRM_Hg_Soil	4oz glass jar	9-30-16	1400	JB
✓	A8M5-1971	A	M11	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1230	SG
✓	A8M5-1971	B	M11	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	SG
✓	A8M5-1971	C	M11	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	SG
✓	A8M5-1972	D	M11	Sediment	TRM_Hg_Soil	4oz glass jar	9-30-16	1230	JB
✓	A8M5-1973	E	M11	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	JB
	A8M5-1974	F	M11	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1974	G	M11	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1974	H	M11	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1975	A	M12	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1635	IB
✓	A8M5-1975	B	M12	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1975	C	M12	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

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CHAIN OF CUSTODY RECORD
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Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1976	D	M12	Sediment	TRM_Hg_Soil	4oz glass jar	9-29-16	1635	JB
✓	A8M5-1977	E	M12	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1978	A	M12A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	0900	SG/JB
✓	A8M5-1978	B	M12A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	SG
✓	A8M5-1978	C	M12A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	SG/JB
✓	A8M5-1979	D	M12A	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	JB
✓	A8M5-1980	E	M12A	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	JB
✓	A8M5-1981	A	M12B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1000	SG
✓	A8M5-1981	B	M12B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1981	C	M12B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1982	D	M12B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1983	E	M12B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1984	A	M12C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1045	JB
✓	A8M5-1984	B	M12C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1984	C	M12C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1985	D	M12C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	~~SG~~ JB
✓	A8M5-1986	E	M12C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	~~SG~~ JB
✓	A8M5-1987	A	M12D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1015	SG
✓	A8M5-1987	B	M12D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	SG

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Site #: A85M

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Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral

Cooler #:

Lab: ESAT Region 8 Laboratory

Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1987	C	M12D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9-30-16	1015	SG
✓	A8M5-1988	D	M12D	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1989	E	M12D	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1990	A	M13A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1130	SG
✓	A8M5-1990	B	M13A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1990	C	M13A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1991	D	M13A	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1992	E	M13A	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1993	A	M13B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1730	SG
✓	A8M5-1993	B	M13B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1993	C	M13B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1994	D	M13B	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1995	E	M13B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1996	A	M13D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1700	SG
✓	A8M5-1996	B	M13D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1996	C	M13D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1997	D	M13D	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1998	E	M13D	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1999	A	M14	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1630	SG

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Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1999	B	M14	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1630	SG
✓	A8M5-1999	C	M14	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2000	D	M14	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2001	E	M14	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2002	A	M14A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1700	SG
✓	A8M5-2002	B	M14A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2002	C	M14A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2003	D	M14A	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2004	E	M14A	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2005	A	M14B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1500	SG
✓	A8M5-2005	B	M14B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2005	C	M14B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2006	D	M14B	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2007	E	M14B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2008	F	M14B	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-2008	G	M14B	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2008	H	M14B	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2009	A	M15	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-28-16	1715	IB
✓	A8M5-2009	B	M15	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

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CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		10/3/16		10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2009	C	M15	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9-28-16	1715	IB
✓	A8M5-2010	D	M15	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2011	E	M15	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-2012	A	M15A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2012	B	M15A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2012	C	M15A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2013	D	M15A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2014	E	M15A	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2015	A	M16	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1100	SG
✓	A8M5-2015	B	M16	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2015	C	M16	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2016	A	M16A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1030	SG
✓	A8M5-2016	B	M16A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2016	C	M16A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2017	D	M16A	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2018	E	M16A	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2019	A	M16B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1145	DM
✓	A8M5-2019	B	M16B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2019	C	M16B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA

DateShipped:

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: A85M

Contact Name: ESAT

Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral

Cooler #:

Lab: ESAT Region 8 Laboratory

Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2020	A	M16C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1145	SG
✓	A8M5-2020	B	M16C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2020	C	M16C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2021	A	M16D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1200	SG
✓	A8M5-2021	B	M16D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2021	C	M16D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2022	A	M16E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1000	SG
✓	A8M5-2022	B	M16E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2022	C	M16E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2023	D	M16E	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2024	E	M16E	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2025	A	M16F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1030	DS
✓	A8M5-2025	B	M16F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2025	C	M16F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2026	D	M16F	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2027	E	M16F	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2028	A	M16G	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1225	DW
✓	A8M5-2028	B	M16G	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2028	C	M16G	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2029	D	M16G	Sediment	TRM_Hg_Soil	4oz glass jar	9-29-16	1225	DW
✓	A8M5-2030	E	M16G	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2031	A	M16H	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	0930	SG
✓	A8M5-2031	B	M16H	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2031	C	M16H	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2032	D	M16H	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2033	E	M16H	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2034	A	M17	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	~~1530~~ 0905	~~SG~~ DS DS 9-29-16
✓	A8M5-2034	B	M17	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2034	C	M17	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2035	D	M17	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2036	E	M17	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2037	A	M17A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1530	SG
✓	A8M5-2037	B	M17A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2037	C	M17A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2038	D	M17A	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2039	E	M17A	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2040	A	M18	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1545	SG
✓	A8M5-2040	B	M18	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2040	C	M18	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9-29-16	1545	SG
✓	A8M5-2041	D	M18	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2042	E	M18	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2043	A	M19	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1500	SG
✓	A8M5-2043	B	M19	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2043	C	M19	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2044	D	M19	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2045	E	M19	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2046	A	M20	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-28-16	1525	LDR
✓	A8M5-2046	B	M20	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2046	C	M20	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2047	D	M20	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2048	E	M20	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2049	F	M20	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1540	IB
✓	A8M5-2049	G	M20	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2049	H	M20	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2050	A	M22	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1405	LDR
✓	A8M5-2050	B	M22	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2050	C	M22	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA

DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral

Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2051	D	M22	Sediment	TRM_Hg_Soil	4oz glass jar	9/28/16	1405	LDR
✓	A8M5-2052	E	M22	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2053	A	M23	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1800	SG
✓	A8M5-2053	B	M23	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2053	C	M23	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2054	D	M23	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2055	E	M23	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2056	A	M24A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1150	SG
✓	A8M5-2056	B	M24A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2056	C	M24A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2057	A	M24B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1145	LDR
✓	A8M5-2057	B	M24B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-2057	C	M24B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-2058	A	M24C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1130	RB
✓	A8M5-2058	B	M24C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2058	C	M24C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2059	A	M24D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1730	SG
✓	A8M5-2059	B	M24D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2059	C	M24D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2060	D	M24D	Sediment	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED →		
✓	A8M5-2061	E	M24D	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	1730	SG
✓	A8M5-2062	A	M25	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1700	SG
✓	A8M5-2062	B	M25	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2062	C	M25	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2063	D	M25	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2064	E	M25	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2065	A	M26	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	945	SG
✓	A8M5-2065	B	M26	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2065	C	M26	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2066	D	M26	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2067	E	M26	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2068	A	M26B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-28-16	935	LDR
✓	A8M5-2068	B	M26B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2068	C	M26B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9-28-16	935	↓
✓	A8M5-2069	D	M26B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2070	E	M26B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2071	A	M28	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-27-16	1700	LDR
✓	A8M5-2071	B	M28	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

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	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2071	C	M28	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9-27-16	1700	
✓	A8M5-2072	D	M28	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2073	E	M28	Soil	TRM_Hg_Soil	4oz glass jar			~~LDR~~ DW DS 9/27
✓	A8M5-2074	F	M28	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-2074	G	M28	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2074	H	M28	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2075	A	M27	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-27-16	1500	DW
✓	A8M5-2075	B	M27	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2075	C	M27	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2076	D	M27	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2077	E	M27	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2078	F	M27	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-2078	G	M27	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2078	H	M27	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2079	A	M27A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1400	SC
✓	A8M5-2079	B	M27A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2079	C	M27A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2080	D	M27A	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2081	E	M27A	Soil	TRM_Hg_Soil	4oz glass jar			

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2082	F	M27A	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1400	SG
✓	A8M5-2082	G	M27A	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2082	H	M27A	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-2083	A	M27A2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2083	B	M27A2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2083	C	M27A2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2084	D	M27A2	Sediment	TRM_Hg_Soil	4oz glass jar	~~9/28/16~~	~~1330~~	~~SG~~ NS 10/3/16
✓	A8M5-2085	E	M27A2	Soil	TRM_Hg_Soil	4oz glass jar	9/28/16	1330	SG
✓	A8M5-2086	A	M29	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1215	SG
✓	A8M5-2086	B	M29	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2086	C	M29	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2087	D	M29	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2088	E	M29	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-2089	A	M29A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2089	B	M29A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2089	C	M29A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2090	D	M29A	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2091	E	M29A	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2092	F	M29A	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			

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USEPA
DateShipped:
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2092	G	M29A	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2092	H	M29A	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2093	A	M29B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2093	B	M29B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2093	C	M29B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2094	D	M29B	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2095	E	M29B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2096	A	M30	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1430	SG
✓	A8M5-2096	B	M30	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2096	C	M30	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2097	D	M30	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2098	E	M30	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2099	F	M30	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1430	RB
✓	A8M5-2099	G	M30	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2099	H	M30	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2100	A	M32	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-27-16	1220	DW
✓	A8M5-2100	B	M32	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2100	C	M32	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2101	D	M32	Sediment	TRM_Hg_Soil	4oz glass jar			

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2102	E	M32	Soil	TRM_Hg_Soil	4oz glass jar	9-27-16	1220	DW
	A8M5-2103	A	M32B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2103	B	M32B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2103	C	M32B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2104	D	M32B	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2105	E	M32B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2106	A	M33	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1030	SG
✓	A8M5-2106	B	M33	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2106	C	M33	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2107	D	M33	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2108	E	M33	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2109	A	M34	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-27-16	915	DW
✓	A8M5-2109	B	M34	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2109	C	M34	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2110	D	M34	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2111	E	M34	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2112	F	M34	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
✓	A8M5-2112	G	M34	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2112	H	M34	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2113	A	M35	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2113	B	M35	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2113	C	M35	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2114	D	M35	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2115	E	M35	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2116	A	M38	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	9:30	SG
✓	A8M5-2116	B	M38	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2116	C	M38	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2117	D	M38	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-2118	E	M38	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-2119	A	Unnamed Creek	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2119	B	Unnamed Creek	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2119	C	Unnamed Creek	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2120	D	Unnamed Creek	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2121	E	Unnamed Creek	Soil	TRM_Hg_Soil	4oz glass jar			

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Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
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Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2122	A	M12E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2122	B	M12E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2122	C	M12E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2123	D	M12E	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2124	E	M12E	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2125	A	M12F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2125	B	M12F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2125	C	M12F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2126	D	M12F	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2127	E	M12F	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2128	A	M12G	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2128	B	M12G	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2128	C	M12G	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2129	D	M12G	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2130	E	M12G	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2131	A	North Star Adit	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2131	B	North Star Adit	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

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CHAIN OF CUSTODY RECORD

Site #: A85M

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No: BP_SEP2016_Mineral

Cooler #:

Lab: ESAT Region 8 Laboratory

Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2131	C	North Star Adit	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2132	D	North Star Adit	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2133	E	North Star Adit	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2134	A	Little Dora Adit	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2134	B	Little Dora Adit	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2134	C	Little Dora Adit	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2135	D	Little Dora Adit	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2136	E	Little Dora Adit	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2137	E	North Star Waste Rock	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2138	E	Little Dora Waste Rock	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2139	E	CMP15A	Soil	TRM_Hg_Soil	4oz glass jar			

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2140	E	Bandora Road Segment	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2141	A	Dup-21	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-28-16	1525	LDR
✓	A8M5-2141	B	Dup-21	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2141	C	Dup-21	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2142	D	Dup-21	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2143	E	Dup-21	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2144	F	Dup-21	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	No	Sample	
	A8M5-2144	G	Dup-21	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2144	H	Dup-21	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2145	A	Dup-22	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-29-16	1500	~~DM~~ SG 10/3/16
✓	A8M5-2145	B	Dup-22	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-2145	C	Dup-22	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2146	D	Dup-22	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-2147	E	Dup-22	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2148	F	Dup-22	Pore Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	No	Sample	
	A8M5-2148	G	Dup-22	Pore Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2148	H	Dup-22	Pore Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2149	A	Dup-23	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-30-16	1045	RB

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Mineral
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-2149	B	Dup-23	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9.30.16	10:45	KB
✓	A8M5-2149	C	Dup-23	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-2150	D	Dup-23	Sediment	TRM_Hg_Soil	4oz glass jar			SG
✓	A8M5-2151	E	Dup-23	Soil	TRM_Hg_Soil	4oz glass jar			SG
	A8M5-2152	A	Dup-24	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2152	B	Dup-24	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2152	C	Dup-24	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2153	D	Dup-24	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2154	E	Dup-24	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2155	A	Dup-25	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2155	B	Dup-25	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2155	C	Dup-25	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2156	D	Dup-25	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2157	E	Dup-25	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2158	A	Dup-26	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2158	B	Dup-26	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2158	C	Dup-26	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2159	D	Dup-26	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2160	E	Dup-26	Soil	TRM_Hg_Soil	4oz glass jar			

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CHAIN OF CUSTODY RECORD

Site #: A85M

Contact Name: ESAT

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No: BP_SEP2016_Mineral

Cooler #:

Lab: ESAT Region 8 Laboratory

Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2161	A	Dup-27	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2161	B	Dup-27	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2161	C	Dup-27	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2162	D	Dup-27	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2163	E	Dup-27	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2164	A	Dup-28	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2164	B	Dup-28	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2164	C	Dup-28	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2165	D	Dup-28	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-2166	E	Dup-28	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-2167	A	FB-12	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2167	B	FB-12	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2167	C	FB-12	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2168	A	FB-13	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2168	B	FB-13	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2168	C	FB-13	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-2169	A	FB-14	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2169	B	FB-14	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2169	C	FB-14	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

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CHAIN OF CUSTODY RECORD
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Cooler #:
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Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-2170	A	FB-15	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-2170	B	FB-15	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-2170	C	FB-15	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-2171	A	FB-16	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9-28-16	1850	LDR
✓	A8M5-2171	B	FB-16	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-2171	C	FB-16	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	~~A8M5-2113~~		~~M34~~	~~Sediment~~	~~Toxicity Test~~	~~WC_Plastic Cool to 4C~~	~~9-27-16~~	~~915~~	~~DW~~ KB 10/3/16
✓	~~M24C Rom~~		M24C ROM	~~Tm~~ Water	TM		9-28-16	1230	SG
✓			M24C ROM	Water	WC-Anions+Alk		9-28-16	1230	SG
✓			M24C ROM	Water	Dissolved metals		9-28-16	1230	SG

Special Instructions:

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CHAIN OF CUSTODY #

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	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1647	A	CC01B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1355	BCS
✓	A8M5-1647	B	CC01B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1647	C	CC01B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1648	A	CC01C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1140	BCS
✓	A8M5-1648	B	CC01C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1648	C	CC01C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1649	D	CC01C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1650	E	CC01C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1651	A	CC01C1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1210	BCS
✓	A8M5-1651	B	CC01C1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1651	C	CC01C1	Surface Water	WC - Anions.+ Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1652	D	CC01C1	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1653	E	CC01C1	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1654	A	CC01C2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1050	BCS
✓	A8M5-1654	B	CC01C2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1654	C	CC01C2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1655	D	CC01C2	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1656	E	CC01C2	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1657	A	CC01F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1235	BCS

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1657	B	CC01F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	1235	BCS
✓	A8M5-1657	C	CC01F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1658	D	CC01F	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1659	E	CC01F	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1660	A	CC01H	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1730	BF
✓	A8M5-1660	B	CC01H	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1660	C	CC01H	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1661	D	CC01H	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1662	E	CC01H	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1663	A	QA Adit	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1530	BS
✓	A8M5-1663	B	QA Adit	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1663	C	QA Adit	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1664	A	QABG-1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1400	BCS
✓	A8M5-1664	B	QABG-1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1664	C	QABG-1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1665	D	QABG-1	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1666	E	QABG-1	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1667	A	QABG-2	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1435	BCS
✓	A8M5-1667	B	QABG-2	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1667	C	QABG-2	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/28/16	1435	BCS
✓	A8M5-1668	D	QABG-2	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1669	E	QABG-2	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1670	A	CC01S	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	17:05	BCS
✓	A8M5-1670	B	CC01S	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1670	C	CC01S	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1671	D	CC01S	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1672	E	CC01S	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1673	A	CC01T	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1630	BCS
✓	A8M5-1673	B	CC01T	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1673	C	CC01T	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1674	D	CC01T	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1675	E	CC01T	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1676	A	CC01U	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1430	BCS
✓	A8M5-1676	B	CC01U	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1676	C	CC01U	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1677	D	CC01U	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1678	E	CC01U	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1679	A	CC02	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	8:45	BCS

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1679	B	CC02	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/28/16	8:45	BCS
✓	A8M5-1679	C	CC02	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1680	D	CC02	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1681	E	CC02	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	9:10	BCS
✓	A8M5-1682	A	CC02C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	12:55	BCS
✓	A8M5-1682	B	CC02C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1682	C	CC02C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1683	D	CC02C	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1684	E	CC02C	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1685	A	CC02D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1015	BCS
✓	A8M5-1685	B	CC02D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1685	C	CC02D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1686	A	CC02I	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1540	BCS
✓	A8M5-1686	B	CC02I	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1686	C	CC02I	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1687	D	CC02I	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1688	E	CC02I	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1689	A	MTD-4	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	12:05	BCS
✓	A8M5-1689	B	MTD-4	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

Special Instructions:

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CHAIN OF CUSTODY #

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USEPA
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CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1689	C	MTD-4	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/27/16	12:05	BCS
✓	A8M5-1690	D	MTD-4	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1691	E	MTD-4	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1692	A	CC03	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1730	BCS
✓	A8M5-1692	B	CC03	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1692	C	CC03	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1693	D	CC03	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1694	E	CC03	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1695	A	CC03A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	955	BCS
✓	A8M5-1695	B	CC03A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1695	C	CC03A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1696	D	CC03A	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1697	E	CC03A	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1698	A	CC03B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1600	JM
✓	A8M5-1698	B	CC03B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1698	C	CC03B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1699	D	CC03B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1700	E	CC03B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1701	A	CC03BF	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1620	JM

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1701	B	CC03BF	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/30/16	1620	JM
✓	A8M5-1701	C	CC03BF	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1702	D	CC03BF	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1703	E	CC03BF	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1704	A	CC03C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1500	JM
✓	A8M5-1704	B	CC03C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1704	C	CC03C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1705	A	CC03D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1400	JM
✓	A8M5-1705	B	CC03D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1705	C	CC03D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1706	D	CC03D	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1707	E	CC03D	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1708	A	FD-1	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1110	BCS
✓	A8M5-1708	B	FD-1	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1708	C	FD-1	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1709	D	FD-1	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1710	E	FD-1	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1711	A	CC04	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1605	BCS
✓	A8M5-1711	B	CC04	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1711	C	CC04	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/29/16	1605	BCS
✓	A8M5-1712	D	CC04	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1713	E	CC04	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1714	A	CC06	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1714	B	CC06	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1714	C	CC06	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1715	A	CC06B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1715	B	CC06B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1715	C	CC06B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1716	D	CC06B	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1717	E	CC06B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1718	A	CC07	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1500	BCS
✓	A8M5-1718	B	CC07	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1718	C	CC07	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1719	D	CC07	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1720	E	CC07	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1721	A	CC14	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1220	BCS
✓	A8M5-1721	B	CC14	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1721	C	CC14	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED		→

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DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1722	A	CC15	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1150	BCS
✓	A8M5-1722	B	CC15	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1722	C	CC15	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1723	D	CC15	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1724	E	CC15	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1725	A	CC16	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	935	BCS
✓	A8M5-1725	B	CC16	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1725	C	CC16	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1726	D	CC16	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1727	E	CC16	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1728	A	CC16B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1030	BCS
✓	A8M5-1728	B	CC16B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1728	C	CC16B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1729	D	CC16B	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1730	E	CC16B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1731	A	CC15A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1110	BCS
✓	A8M5-1731	B	CC15A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1731	C	CC15A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1732	D	CC15A	Sediment	TRM_Hg_Soil	4oz glass jar			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

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	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
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CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1733	E	CC15A	Soil	TRM_Hg_Soil	4oz glass jar	9/29/16	1110	BCS
✓	A8M5-1734	A	CC17	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	840	BCS
✓	A8M5-1734	B	CC17	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1734	C	CC17	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1735	D	CC17	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1736	E	CC17	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1737	A	CC18	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	13:25	BCS
✓	A8M5-1737	B	CC18	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1737	C	CC18	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1738	D	CC18	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1739	E	CC18	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1740	A	CC18B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1415	BCS
✓	A8M5-1740	B	CC18B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1740	C	CC18B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1741	D	CC18B	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1742	E	CC18B	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1743	A	CC19	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1650	BCS
✓	A8M5-1743	B	CC19	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1743	C	CC19	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED		

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1744	A	CC20	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1715	BCS
✓	A8M5-1744	B	CC20	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1744	C	CC20	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1745	D	CC20	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1746	E	CC20	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1747	A	CC21	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1630	BCS
✓	A8M5-1747	B	CC21	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1747	C	CC21	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1748	D	CC21	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1749	E	CC21	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1750	A	CC21A	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1730	KB
✓	A8M5-1750	B	CC21A	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1750	C	CC21A	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1751	D	CC21A	Sediment	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED →		
	A8M5-1752	E	CC21A	Soil	TRM_Hg_Soil	4oz glass jar	↓		
✓	A8M5-1753	A	CC21B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1550	AA
✓	A8M5-1753	B	CC21B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1753	C	CC21B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1754	D	CC21B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓

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AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1755	E	CC21B	Soil	TRM_Hg_Soil	4oz glass jar	9/28/16	1550	AA
✓	A8M5-1756	A	CC21C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1000	KLB
✓	A8M5-1756	B	CC21C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1756	C	CC21C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED	→	
✓	A8M5-1757	A	CC21D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1710	AA
✓	A8M5-1757	B	CC21D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1757	C	CC21D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1758	D	CC21D	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1759	E	CC21D	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1760	A	CC22	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1710	KB
✓	A8M5-1760	B	CC22	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1760	C	CC22	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1761	D	CC22	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1762	E	CC22	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1763	A	CC22B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	09/29/16	1440	AA
✓	A8M5-1763	B	CC22B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1763	C	CC22B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1764	D	CC22B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1765	E	CC22B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓

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USEPA
DateShipped:
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1766	A	CC22C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1515	KB
✓	A8M5-1766	B	CC22C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1766	C	CC22C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1767	D	CC22C	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1768	E	CC22C	Soil	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED		
✓	A8M5-1769	A	CC22D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1600	KB
✓	A8M5-1769	B	CC22D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1769	C	CC22D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1770	D	CC22D	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1771	E	CC22D	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1772	A	CC23	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1730	AA
✓	A8M5-1772	B	CC23	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1772	C	CC23	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1773	D	CC23	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1774	E	CC23	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1775	A	CC23B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	842	AA
✓	A8M5-1775	B	CC23B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1775	C	CC23B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1776	D	CC23B	Sediment	TRM_Hg_Soil	4oz glass jar			

Special Instructions:

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USEPA
DateShipped:
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1777	E	CC23B	Soil	TRM_Hg_Soil	4oz glass jar	9/30/16	842	AA
✓	A8M5-1778	A	CC23C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	930	AA
✓	A8M5-1778	B	CC23C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1778	C	CC23C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1779	D	CC23C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1780	E	CC23C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1781	A	CC23D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	950	AA
✓	A8M5-1781	B	CC23D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1781	C	CC23D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1782	D	CC23D	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1783	E	CC23D	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1784	A	CC23E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1130	AA
✓	A8M5-1784	B	CC23E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1784	C	CC23E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1785	D	CC23E	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1786	E	CC23E	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1787	A	CC23F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1115	AA
✓	A8M5-1787	B	CC23F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1787	C	CC23F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

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Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1788	D	CC23F	Sediment	TRM_Hg_Soil	4oz glass jar	9/30/16	1115	AA
	A8M5-1789	E	CC23F	Soil	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED		
✓	A8M5-1790	A	CC23G	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1150	AA
✓	A8M5-1790	B	CC23G	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1790	C	CC23G	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1791	D	CC23G	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1792	E	CC23G	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1793	A	CC23H	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1240	AA
✓	A8M5-1793	B	CC23H	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1793	C	CC23H	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1794	D	CC23H	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1795	E	CC23H	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1796	A	CC23I	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1040	AA
✓	A8M5-1796	B	CC23I	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1796	C	CC23I	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1797	D	CC23I	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1798	E	CC23I	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1799	A	CC24	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16 (10-4-16)	1130	AA
✓	A8M5-1799	B	CC24	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

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CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1799	C	CC24	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/29/16	1130	AA
✓	A8M5-1800	D	CC24	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1801	E	CC24	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1802	A	CC24B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1230	AA
✓	A8M5-1802	B	CC24B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1802	C	CC24B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1803	D	CC24B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1804	E	CC24B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1805	A	CC24C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1200	AA
✓	A8M5-1805	B	CC24C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1805	C	CC24C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1806	D	CC24C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1807	E	CC24C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1808	A	CC24D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	8:45	KLB
✓	A8M5-1808	B	CC24D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1808	C	CC24D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
	A8M5-1809	A	CC24E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	DRY →		
	A8M5-1809	B	CC24E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓		
	A8M5-1809	C	CC24E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓		

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1810	A	CC24F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1400	AA
✓	A8M5-1810	B	CC24F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1810	C	CC24F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1811	A	CC24G	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1811	B	CC24G	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1811	C	CC24G	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1812	A	CC25	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	9:15	AA
✓	A8M5-1812	B	CC25	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1812	C	CC25	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1813	D	CC25	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1814	E	CC25	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1815	A	CC25B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	9:45	AA
✓	A8M5-1815	B	CC25B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1815	C	CC25B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1816	D	CC25B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1817	E	CC25B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1818	A	CC25C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	915	KLB
✓	A8M5-1818	B	CC25C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1818	C	CC25C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1819	A	CC26	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1620	AA
✓	A8M5-1819	B	CC26	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1819	C	CC26	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1820	D	CC26	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1821	E	CC26	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1822	A	CC27	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1510	KB
✓	A8M5-1822	B	CC27	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1822	C	CC27	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1823	D	CC27	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1824	E	CC27	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-1825	A	CC28	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1825	B	CC28	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1825	C	CC28	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1826	D	CC28	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1827	E	CC28	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1828	A	CC28C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1828	B	CC28C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1828	C	CC28C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1829	D	CC28C	Sediment	TRM_Hg_Soil	4oz glass jar			

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1620						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1830	E	CC28C	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1831	A	CC29	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1831	B	CC29	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1831	C	CC29	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1832	D	CC29	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1833	E	CC29	Soil	TRM_Hg_Soil	4oz glass jar			
	A8M5-1834	A	CC29B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1834	B	CC29B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1834	C	CC29B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1835	A	CC29D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1835	B	CC29D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1835	C	CC29D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1836	D	CC29D	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1837	E	CC29D	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1838	A	CC33	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/23/16	14:00	AA
✓	A8M5-1838	B	CC33	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1838	C	CC33	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1839	D	CC33	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
	A8M5-1840	E	CC33	Soil	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED →		

Special Instructions:	**SAMPLES TRANSFERRED FROM**
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	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1841	A	CC37	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	9:55	AA
✓	A8M5-1841	B	CC37	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1841	C	CC37	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1842	A	CC38	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	8:45	AA
✓	A8M5-1842	B	CC38	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1842	C	CC38	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1843	D	CC38	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1844	E	CC38	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1845	A	CC38B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	11:10	KB
✓	A8M5-1845	B	CC38B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
	A8M5-1845	C	CC38B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
✓	A8M5-1846	A	CC38C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1140	KB
✓	A8M5-1846	B	CC38C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1846	C	CC38C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1847	D	CC38C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1848	E	CC38C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1849	A	CC38D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1040	KB
✓	A8M5-1849	B	CC38D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1849	C	CC38D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/3/16	[illegible]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1850	D	CC38D	Sediment	TRM_Hg_Soil	4oz glass jar	9/28/16	1040	KB
✓	A8M5-1851	E	CC38D	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	
✓	A8M5-1852	A	CC39	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1600	AA
✓	A8M5-1852	B	CC39	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1852	C	CC39	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1853	D	CC39	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1854	E	CC39	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1855	A	CC39B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1300	KB
✓	A8M5-1855	B	CC39B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1855	C	CC39B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1856	D	CC39B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1857	E	CC39B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1858	A	CC41	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	16:15	~~AA~~ JM KB 9/27/16
✓	A8M5-1858	B	CC41	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1858	C	CC41	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1859	D	CC41	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1860	E	CC41	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1861	A	CC42	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1440	AA
✓	A8M5-1861	B	CC42	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1861	C	CC42	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/27/16	1440	AA
✓	A8M5-1862	D	CC42	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1863	E	CC42	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1864	A	CC42F	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1510	AA
✓	A8M5-1864	B	CC42F	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1864	C	CC42F	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1865	D	CC42F	Sediment	TRM_Hg_Soil	4oz glass jar			
	A8M5-1866	E	CC42F	Soil	TRM_Hg_Soil	4oz glass jar	NOT COLLECTED →		
✓	A8M5-1867	A	CC42C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	~~1440~~ 1715	AA
✓	A8M5-1867	B	CC42C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓ KB 9/27/16	↓
	A8M5-1867	C	CC42C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	NOT COLLECTED →		
	A8M5-1868	A	CC43D	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	DRY →		
	A8M5-1868	B	CC43D	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓		
	A8M5-1868	C	CC43D	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1869	D	CC43D	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1870	E	CC43D	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	1720	KB
✓	A8M5-1871	A	CC43E	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1320	KB
✓	A8M5-1871	B	CC43E	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1871	C	CC43E	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1872	D	CC43E	Sediment	TRM_Hg_Soil	4oz glass jar	9/27/16	13:20	KB
✓	A8M5-1873	E	CC43E	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1874	A	CC46B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	12:30	AA
✓	A8M5-1874	B	CC46B	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1874	C	CC46B	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1875	D	CC46B	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1876	E	CC46B	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1877	A	CC47C	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	11:25	KB
✓	A8M5-1877	B	CC47C	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1877	C	CC47C	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1878	D	CC47C	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1879	E	CC47C	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1880	A	CC48	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	9:35	AA
✓	A8M5-1880	B	CC48	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1880	C	CC48	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1881	D	CC48	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1882	E	CC48	Soil	TRM_Hg_Soil	4oz glass jar	9/27/16	↓	↓
✓	A8M5-1883	A	Dup-12	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1800	AA
✓	A8M5-1883	B	Dup-12	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[redacted]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1883	C	Dup-12	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	9/27/16	1800	AA
✓	A8M5-1884	D	Dup-12	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1885	E	Dup-12	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1886	A	Dup-13	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/27/16	1630	BS
✓	A8M5-1886	B	Dup-13	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1886	C	Dup-13	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1887	D	Dup-13	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1888	E	Dup-13	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1889	A	Dup-14	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1300	KB
✓	A8M5-1889	B	Dup-14	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1889	C	Dup-14	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1890	D	Dup-14	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1891	E	Dup-14	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1892	A	Dup-15	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/28/16	1750	BES
✓	A8M5-1892	B	Dup-15	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1892	C	Dup-15	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1893	D	Dup-15	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1894	E	Dup-15	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1895	A	Dup-16	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1440	AA

Special Instructions:	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1895	B	Dup-16	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	9/29/16	1440	AA
✓	A8M5-1895	C	Dup-16	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1896	D	Dup-16	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1897	E	Dup-16	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1898	A	Dup-17	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1600	KB
✓	A8M5-1898	B	Dup-17	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1898	C	Dup-17	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1899	D	Dup-17	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1900	E	Dup-17	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1901	A	Dup-18	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/29/16	1730	BCS
✓	A8M5-1901	B	Dup-18	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1901	C	Dup-18	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1902	D	Dup-18	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1903	E	Dup-18	Soil	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1904	A	Dup-19	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	950	AA
✓	A8M5-1904	B	Dup-19	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
✓	A8M5-1904	C	Dup-19	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓	A8M5-1905	D	Dup-19	Sediment	TRM_Hg_Soil	4oz glass jar			
✓	A8M5-1906	E	Dup-19	Soil	TRM_Hg_Soil	4oz glass jar			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/3/16	[illegible]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
✓	A8M5-1907	A	Dup-20	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1600	JM
✓	A8M5-1907	B	Dup-20	Surface Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1907	C	Dup-20	Surface Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
✓	A8M5-1908	D	Dup-20	Sediment	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1909	E	Dup-20	Soil	TRM_Hg_Soil	4oz glass jar	↓	↓	↓
✓	A8M5-1910	A	FB-07	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3	9/30/16	1800	KB
✓	A8M5-1910	B	FB-07	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45	↓	↓	↓
✓	A8M5-1910	C	FB-07	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C	↓	↓	↓
	A8M5-1911	A	FB-08	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1911	B	FB-08	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1911	C	FB-08	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1912	A	FB-09	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1912	B	FB-09	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1912	C	FB-09	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1913	A	FB-10	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1913	B	FB-10	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			
	A8M5-1913	C	FB-10	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
	A8M5-1914	A	FB-11	Water	Total Recoverable Metals	TR_Plastic pH<2 w HNO3			
	A8M5-1914	B	FB-11	Water	Dissolved Metals + Hardness	DM_pH<2 w/ HNO3 filt 0.45			

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	10/3/16	[signature]	10/3/16	1200						

USEPA
DateShipped:
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: A85M
Contact Name: ESAT
Contact Phone: 303-312-7726

No: BP_SEP2016_Cement
Cooler #:
Lab: ESAT Region 8 Laboratory
Lab Phone: 303-312-7726

Lab #	Sample #	Tag	Location	Matrix	Analyses	Preservative	Start_Date	Sample Time	Sampler
	A8M5-1914	C	FB-11	Water	WC - Anions + Alk	WC_Plastic Cool to 4 C			
✓		A	CC-01B	Surface Water	Total Recoverable Metals	TR_Plastic pH<2 w/ HNO3	9/27/16	950	KLB
✓		B	CC-01B		Dissolved Metals+Hardness	DM_pH<2 w/HNO3 filt 0.45	9/27/16	950	KLB

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	10/3/16	[illegible]	10/3/16	1200						

TechLaw
Quality & Integrity

Sample Receipt Form - TLF-51.01

Project: Bonita Peak **TDF #:** A-119

Date Received: 9/3/16 **Time Received:** 12:00 **By:** Jessica Boyles

1	Airbill/shipping documents present?	Drop Off	Yes	No
2	Custody seals on **shipping** containers present and intact?	None	Yes	No
3	Custody seals on **sample** containers present and intact?	None	Yes	No
4	Chain of Custody (COC) present?		Yes	No
5	COC and sample container information agree?		Yes	No
6	Aqueous samples preserved correctly, if required?	N/A	Yes	No
7	Samples received within holding times for requested analyses?		Yes	No
8	Sufficient sample volume for requested analyses?		Yes	No
9	Sample containers intact and not leaking?		Yes	No
10	Sample containers appropriate for requested analyses?		Yes	No
11	Samples shipped on ice?		Yes	No
12	Cooler temperature(s) ≤ 6.0 °C?	N/A	Yes	No

Cooler #:	1	2	3	4	5
Temperature (°C):	4.9	3.2	5.9	3.6	4.8

pH Strip Lot #: HC123184

Preservation Name and Lot #: NA

Comments and Additional Information: NA

Client notified of anomalies, if necessary?	N/A	Yes	No
Anomalies noted in case narrative and data qualified, if necessary ?	N/A	Yes	No

C161005

ESAT Technical Direction Form

Contract No. EPW13028
EPA Region 8

Site ID: A8M5 ***Date Issued:*** 6/15/2016 ***Date Closed By:***
TDF ID: A-119 ***Date Updated:*** 7/26/2016

Name: Bonita Peak District 2016 Analytical Support Oct

Details: The Contractor shall analyze several surface water samples that will be collected over three separate sampling events at the Bonita Peak Mining District Superfund site. The water samples will be analyzed for dissolved (including hardness calculation) and total recoverable metals by 200.7/200.8, alkalinity and anions as indicated below in the Analytical Information Section.

Approximately 50 soil samples will be collected in the late-July sampling event that will require acid-base accounting (ABA). Additionally, ESAT will also analyze approximately 25 soil/mine samples for bioaccessibility of lead and arsenic. The samples that will be selected for bioaccessibility should cover the low to high concentration range of the soils analyzed previously by EPA Method 200.8 (As/Pb).

The three sampling events (and approximate number of samples) are expected to take place as follows:

Event 1: June-July 2016 (high flow) - 300 waters (ESAT)
Event 2: Late-July/early-August 2016 - 162 soils (CLP), 50 soils for acid-base accounting and 25 soils for bioaccessibility (ESAT)
Event 3: Late-September 2016 (low flow) - 300 waters (ESAT), 250 sediments (CLP), 250 soils (CLP)

Along with the waters, ESAT will also process several soil and sediment samples for the CLP. The soil samples collected at the late-July/early-August sampling event will be analyzed for metals, mercury, and SPLP as indicated per the CLP Laboratory Assignment for Case 46281.

The soil and sediment samples that will be collected in late-September 2016 for metals and mercury will be processed per the CLP Laboratory Assignment for Case 46282.

Site RPM is Rebecca Thomas

TO02/Subtask 02b: Inorganic Chemistry

Analytical Information:

MATRIX
☑ Water ☑ Soils ☐ Vegetation ☐ Biota

WET CHEM
☐ TSS ☐ TDS ☐ DOC ☑ Alk ☑ Chloride ☑ Sulfate ☑ Fluoride ☑ Nitrate ☑ Nitrite
Other Report as combined NO2-NO3

METALS
☑ Dissolved ☑ Total Recoverable ☐ Total ☑ Hardness (Calc)

200.7: ☐ Ag ☑ Al ☐ As ☐ Ba ☑ Be ☐ B ☑ Ca ☐ Cd ☐ Co ☐ Cr ☐ Cu ☑ Fe ☐ K ☑ Mg
☑ Mn ☐ Mo ☐ Na ☐ Ni ☐ Pb ☐ Sb ☐ Se ☑ Sr ☐ Ti ☐ Tl ☐ V ☑ Zn ☑ SiO2

200.8: ☑ Ag ☑ Al ☑ As ☐ Ba ☑ Be ☑ Cd ☐ Co ☑ Cr ☑ Cu ☑ Mn ☐ Mo ☑ Ni ☑ Pb ☑ Sb
☑ Se ☐ Th ☑ Tl ☐ U ☐ V ☑ Zn

7470/7471/747 ☐ Hg

FIBERS
☐ PLM ☐ TEM

SV 10/26/16

Deliverables

ID	*Description*	*Due Date*	*Submission Date*
1	Provide final deliverable package to Task Monitor no later than 60 days after delivery of final sample(s). (C160608)	8/15/2016	7/12/2016
2	Provide final deliverable package to Task Monitor no later than 60 days after delivery of final sample(s). (C160609)	8/15/2016	7/14/2016
3	Provide final deliverable package to Task Monitor no later than 60 days after delivery of final sample(s). (C1606010)	8/15/2016	7/13/2016

TLF-07.01	SOP: QAQ-04.00	Eff. Date: 1/17/2007

ESAT Region 8

Final Report Review Form

LIMS: C16/005	Project: Bonita Peak - Water 2 - Oct 2016
TDF: A-119	Due Date: 12/2/2016

QA/QC Review – Level III

Compare TDF to performed analysis / Ensure all analyses are complete	☒ Yes	☐ No
Review each Analytical Data Review form noting discrepancies for narrative	☒ Yes	☐ No
Examine each analytical sequence in LIMS using Data Entry Review application	☒ Yes	☐ No
Generate draft report, print QC section	☒ Yes	☐ No
Confirm presence of each analytical batch, QC samples	☒ Yes	☐ No
Examine analytical results (Form I) for accuracy and completeness	☒ Yes	☐ No
Check spike recoveries of LCSs, matrix spikes and post-digestion spikes	☒ Yes	☐ No
Verify serial dilution %D and duplicate RPD for each metals batch	☒ Yes	☐ No

Narrative Comments

None.

Review By: [signature]	Date: 12/4/2016

ESAT Management Review – Level IV

All analytical data and deliverable review forms present and complete	☐ Yes	☐ No
COC copy, received temp. noted, preservatives noted, signature present, holding times met	☐ Yes	☐ No
Copy of TDF present, Analytical requirements met	☐ Yes	☐ No
Case narrative checked for spelling, grammar, technical content and completeness	☐ Yes	☐ No
10% Validation of raw data to reported data on Form Ones	☐ Yes	☐ No
Standard Traceability COAs and ICP / ICP-MS MDL forms present	☐ Yes	☐ No
Final Report cover letter including DCN present	☐ Yes	☐ No
Deficiencies noted requiring correction before delivery to EPA Project Officer	☐ Yes	☐ No

Manager Review Comments

Review By:	Date:
Corrections By:	Date: