APPENDIX A

QUALITY ASSURANCE AND QUALITY CONTROL REVIEW AND SUMMARY FOR SURFACE WATER AND INSTREAM SEDIMENT

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QUALITY ASSURANCE AND QUALITY CONTROL REVIEW AND SUMMARY FOR SURFACE WATER AND INSTREAM SEDIMENT

A.1 REVIEW

Specific quality assurance and quality control (QA/QC) requirements for field measurements, sample collection, laboratory analysis, and the reporting of resulting data are described by protocols contained in a quality assurance project plan (QAPP) which is accompanied by a project sampling and analysis plan (SAP). The quality control checklist (see Section A.2) is a component of the Montana Department of Environmental Quality standard QA/QC protocols and an initial step in the review and validation of water chemistry and related data generated under this monitoring program. The checklist provides an outline for reviewing and assessing those factors which may infringe upon data quality and assists in identifying data that may be inaccurate.

A.2 CHECKLIST

_+_ Condition of samples upon receipt.

_+_ Cooler and sample temperature.

- All water and instream sediment samples collected in 2014 were within the required range (4.0 ±2.0 ºC) when received by the laboratory.

_+_ Proper collection containers.

_+_ All containers intact.

_-_ pH of acidified samples <2.

- The common ion field sample (0.5 mL) from SS-25 on May 15, 2014 was mistakenly preserved with acid

_+_ All field documentation complete.

- Minor discrepancies in the sample identification codes or sample times were noted between the labels on the sample bottles and the chain-of-custody forms at the time samples were delivered to the laboratory. All discrepancies were resolved and documented in Energy Labs work order receipt checklists for each quarterly data report.

_+_ Holding times met.

_+_ Field duplicates collected at the proper frequency as specified in the project sampling and analysis plan.

_+_ Field blanks collected at the proper frequency as specified in the project sampling and analysis plan.

_+_ All sample identifications matched those identified the project sampling and analysis plan. Field duplicates were clearly marked on samples and noted as duplicates in lab results.

_+_ Analyses carried out as described within the SAP (e.g. analytical methods, photo documentation, field protocols)

_+_ Reporting limits met the project required reporting limit.

_-_ All blanks were less than the analytical reporting limit. The following field blanks had analyte concentrations at or above the reporting limit:

- In the first quarter (Q1):
  - One field blank had a dissolved zinc concentration of 0.017 mg/L (reporting limit [RL] = 0.008 mg/L).
  - One field blank had a chloride concentration of 7 mg/L (RL = 1 mg/L).
- In the second quarter during the rising limb of the spring snowmelt hydrograph (Q2-Rising):
  - One field blank had a dissolved organic carbon (DOC) concentration of 0.4 mg/L (RL = 0.1 mg/L) and the other field blank had a concentration of 0.5 mg/L.
  - One field blank had a total nitrogen concentration of 0.07 mg/L (RL = 0.05 mg/L).
  - One field blank had a dissolved zinc concentration of 0.019 mg/L (RL = 0.008 mg/L) and the other field blank had a concentration of 0.011 mg/L.
  - One field blank had a total suspended sediment (TSS) concentration of 3 mg/L (RL = 1 mg/L).
- In the second quarter during the peak of the spring snowmelt hydrograph (Q2-Peak):
  - One field blank had a total suspended sediment concentration of 3 mg/L (RL = 1 mg/L).
  - One field blank had a dissolved organic carbon concentration of 0.4 mg/L (RL = 0.1 mg/L) and the other field blank had a concentration of 0.3 mg/L.
  - One field blank had a dissolved zinc concentration of 0.014 mg/L (RL = 0.008 mg/L).
- In the second quarter during the falling limb of the spring snowmelt hydrograph (Q2-Falling):

    - One field blank had a dissolved organic carbon concentration of 0.5 mg/L (RL = 0.5 mg/L).
    - One field blank had a dissolved zinc concentration of 0.009 mg/L (RL = 0.008 mg/L) and the other field blank had a concentration of 0.012 mg/L.
- In the third quarter (Q3):
    - One field blank had a dissolved zinc concentration of 0.014 mg/L (RL = 0.08 mg/L) and the other had a concentration of 0.012 mg/L.
- In the fourth quarter (Q4):
    - One field blank had a dissolved organic carbon concentration of 0.5 mg/L (RL = 0.5 mg/L).
    - One field blank had a dissolved zinc concentration of 0.009 mg/L (RL = 0.008 mg/L).
    - One field blank had a total nitrogen concentration of 0.11 mg/L (RL = 0.05 mg/L).
    - One field blank had a total phosphorus concentration of 0.05 mg/L (RL = 0.05 mg/L).

_+_ If any blanks exceeded the project-required detection limit, associated data is "B-flagged" in the database. The Montana Department of Environmental Quality (MDEQ) project manager will set the criteria for determining associated data. Based on project precedents, we recommend B-flagging the following samples:

- In Q1, all samples with chloride concentrations <70 mg/L and all dissolved zinc concentrations <0.17 mg/L.
- In Q2-Rising, all total suspended sediment concentrations <30 mg/L, all dissolved organic carbon concentrations <5 mg/L, all total nitrogen values <0.7 mg/L, and all dissolved zinc concentrations <0.19 mg/L.
- In Q2-Peak, all total suspended sediment concentration <30 mg/L, all dissolved organic carbon concentrations <4 mg/L, and all dissolved zinc concentrations <0.14 mg/L.
- In Q2-Falling, all dissolved organic carbon concentrations <5 mg/L and all dissolved zinc concentrations <0.12 mg/L.
- In Q3, all dissolved zinc concentrations <0.14 mg/L.
- In Q4, all dissolved organic carbon concentrations <5 mg/L, all total nitrogen concentrations <1.1 mg/L, all total phosphorus concentrations <0.5 mg/L, and all dissolved zinc concentrations <0.09 mg/L.

_+_ Laboratory blanks, duplicates, matrix spikes, and laboratory control samples were analyzed at a 10% frequency.

_+_ Laboratory blanks, duplicates, matrix spikes, and laboratory control samples were all within the required control limits defined within the SAP.

_+_ Project data quality objectives (DQOs) and data quality indicators (DQIs) were met as described in SAP.

+ Completed summary of quality control and quality analysis results, summary of issues encountered, and description of how issues were addressed was conducted.

A.3 SUMMARY

Summarized in this appendix are quality control measures performed on field and laboratory data generated from surface water and instream sediment in 2014 from the CFROU. Assessed under the MDEQ standard quality assurance and quality control protocols are data quality objectives (DQOs) which include "representativeness", "comparability and completeness". In addition, data quality indicators (DQI) were assessed including DQIs for "sensitivity", "lab precision", "overall precision", and "bias and accuracy".

Overall, DQOs and DQIs were met at all surface water monitoring sites in the CFROU in 2014. Water samples were collected and analyzed for total suspended sediment, nutrients, dissolved and total recoverable metals, total mercury and methylmercury, dissolved organic concentration, and common ion concentrations. Samples were collected during six sample periods. Instream sediment samples were collected and analyzed for total metals on two occasions in 2014 and DQOs and DQIs were achieved.

A.3.1 Representativeness

All surface water sites sampled in the CFROU during 2014 met stated objectives for spatial representativeness. Samples were collected at bridge crossings and road access points specified in the CFROU SAP. Instream sediments and biological samples were collected as close as possible to the surface water sampling locations, with suitable sites generally found within 100 yards of the water sampling locations.

To meet temporal objectives specified in the CFROU SAP, surface water monitoring was conducted once during Q1, Q3 and Q4, and three times during Q2 of 2014. Within the quarterly framework, water samples and field data were collected during specific hydrologic conditions: prior to the spring snowmelt runoff during approximately base streamflow conditions (Q1), during the rising limb (Q2-Rising), peak (Q2-Peak), and falling limb (Q2-Falling) of the spring snowmelt hydrograph, during late summer base streamflow conditions (Q3), and during late fall base streamflow conditions (Q4). Instream sediment samples were collected under base streamflow conditions in Q1 and Q3 of 2014.

A.3.2 Comparability

Comparability is the applicability of the project's data to the project's decision rule. The project decision rules are identified in the project SAP. Data collected in this 2014 monitoring program are highly applicable to the project's decision rule. All methods conformed to the requirements of applicable criteria identified as decision rules in the project SAP.

A.3.3 Completeness

Completeness is the amount of useable data actually collected compared to the amount prescribed in the SAP, as a percent. Data completeness for the 2014 CFROU monitoring during each of the quarterly monitoring events was very near 100% for all parameters sampled. This level of completeness exceeds the project goal for completeness (85%) and precludes the need to prepare a completeness evaluation table per MDEQ guidelines.

A.3.4 Sensitivity

The method detection limit (MDL) established by Energy Laboratories through laboratory blank analyses is an expression of sensitivity. The MDL documented in the QA/QC summary reports that accompany each set of laboratory analytical reports was less than the project-required reporting limit (RL), and was often below detection, for all analytical methods pertaining to CFROU monitoring (Appendix B).

Sensitivity of field methods was determined through field blank analyses, at a frequency of at least 10% of field samples collected, as specified in the SAP. During Q1, two field blank samples were collected and analyzed for all surface water parameters (except total mercury, methylmercury, and dissolved organic carbon) for a frequency of >10% of the sites monitored. One field blank was collected for these parameters. Additional field blanks were prepared during Q1 for total mercury, methylmercury, and dissolved organic carbon for a frequency of 50% of the sites monitored for those parameters. During Q2, two field blank samples were prepared during each of the three monitoring events and analyzed for the complete list of parameters, for an actual frequency of 12.5%. During Q3 and Q4, two deionized water field blank samples were prepared and analyzed for the complete list of parameters, for an actual frequency of 16.7% of site monitored. Results of field blank analyses for all analytes are presented in Table A1 through Table A6. The field blanks with concentrations at or above the RL are displayed in the Checklist section of this Appendix (Section A.2).

A.3.5 Precision

A.3.5.1 Laboratory

Laboratory precision was assessed by calculating the relative percent difference (RPD) between laboratory samples and laboratory duplicate samples for each parameter measured in the CFROU. Established MDEQ criteria allow a maximum RPD of 20% for water sample results (>5 times the RL) and 35% for sediment samples (>5 times the RL). No laboratory sample and duplicate pairs had RPDs exceeding these criteria. Therefore, no data was qualified (i.e., “flagged”) in the project database, and no corrective actions were required. Laboratory analysis results are presented in Appendix B.

A.3.5.2 Overall

Overall precision was assessed by calculating the RPD of field sample and field duplicate pairs. Established MDEQ criteria allow a maximum RPD of 25% for water samples (>5 times the RL) and 40% for sediment samples (>5 times the RL). Co-located surface water field duplicate samples were collected during each monitoring event. RPD results are presented in Table A7 through Table A21. Duplicate surface water sample results with RPD values >25% and sample concentrations >5 times the RL included:

- In Q1, one field sample and field duplicate pair had an RPD for dissolved copper of 40%. Associated dissolved copper concentrations will be J-flagged.
- In Q2-Peak, one field sample and field duplicate pair had an RPD for total suspended sediment exceeding 25%. Associated total suspended sediment concentrations will be J-flagged.
- In Q2-Falling, one field sample and field duplicate pair had an RPD for total suspended sediment >25 %. Associated total suspended sediment concentrations will be J-flagged.
- In Q3, one field sample and field duplicate pair had an RPD for total suspended sediment of 28.6%. Associated total suspended sediment concentrations will be J-flagged.
- In Q4, one field sample and field duplicate pair had RPDs for total suspended sediment and total nitrogen >25 %. Associated total suspended sediment and total nitrogen concentrations will be J-flagged.

All field sample and field duplicate sample pairs for instream sediment in 2014 had RPD >40%. Therefore, no sediment concentrations will be J-flagged in the project database.

A.3.1 Bias and Accuracy

Bias is defined as directional error from the true value of a measurement. For field measurements (water temperature, pH, specific conductance, dissolved oxygen [DO] concentration, DO percent saturation, and turbidity), bias was minimized by frequent calibration of field instruments. Each instrument calibration was documented in calibration logs. For water chemistry and sediment results, bias was minimized through adherence to approved field procedures for sample collection and handling, and cleaning and use of sampling equipment.

Accuracy is the combination of high precision and low bias. Accuracy of laboratory results was assessed by reviewing the analytical method controls (i.e., lab control sample, continuing calibration verification, lab fortified blank, standard reference material) and analytical batch controls (i.e., matrix spike and matrix spike duplicate). Limits established by the laboratory through control charting of each method's performance served as assessment criteria. None of the analytical method controls or analytical batch controls had values outside of the acceptable recovery range, as detailed in the summary reports (Appendix B).

Table A1. Analyte concentrations in the first quarter (March 18-19, 2014) surface water field blanks from the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Field blank (concentration; mg/L)	
		H14030285-002	H14030285-013
Total Suspended Sediment	1	ND	ND
Total Alkalinity	4	ND	ND
Bicarbonate Alkalinity	4	ND	ND
Sulfate	1	ND	ND
Chloride	1	ND	7
Hardness	1	ND	ND
Organic Carbon, Dissolved	0.5	ND	ND
Ammonia Nitrogen	0.05	ND	ND
Nitrate plus Nitrite Nitrogen	0.05	ND	ND
Total Nitrogen	0.05	ND	ND
Total Phosphorus	0.005	ND	ND
Arsenic, Dissolved	0.001	ND	ND
Cadmium, Dissolved	0.00003	ND	ND
Copper, Dissolved	0.001	ND	ND
Lead, Dissolved	0.0003	ND	ND
Zinc, Dissolved	0.008	0.017	ND
Arsenic, Total Recoverable	0.001	ND	ND
Cadmium, Total Recoverable	0.00003	ND	ND
Calcium, Total Recoverable	1	ND	ND
Copper, Total Recoverable	0.001	ND	ND
Lead, Total Recoverable	0.0003	ND	ND
Magnesium, Total Recoverable	1	ND	ND
Zinc, Total Recoverable	0.008	ND	ND
Mercury, Total	0.000005	ND	-
Mercury, Methyl	0.00000005	ND	-

ND — Not detected at analytical reporting limit.

Field blank concentration exceeds reporting limit. We recommend "B-flagging" all analyte concentrations (which are <10 times the blank value) from this sample period in the project database.

Table A2. Analyte concentrations in the second quarter during the rising limb of the spring snowmelt (May 13-14, 2014) surface water field blanks from the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Field blank (concentration; mg/L)	
		H14050278-017	H14050278-013
Total Suspended Sediment	1	ND	3
Total Alkalinity	4	ND	ND
Bicarbonate Alkalinity	4	ND	ND
Sulfate	1	ND	ND
Chloride	1	ND	ND
Hardness	1	ND	ND
Organic Carbon, Dissolved	0.1	0.4	0.5
Ammonia Nitrogen	0.05	ND	ND
Nitrate plus Nitrite Nitrogen	0.05	ND	ND
Total Nitrogen	0.05	ND	0.08
Total Phosphorus	0.005	ND	ND
Arsenic, Dissolved	0.001	ND	ND
Cadmium, Dissolved	0.00003	ND	ND
Copper, Dissolved	0.001	ND	ND
Lead, Dissolved	0.0003	ND	ND
Zinc, Dissolved	0.008	0.019	0.011
Arsenic, Total Recoverable	0.001	ND	ND
Cadmium, Total Recoverable	0.00003	ND	ND
Calcium, Total Recoverable	1	ND	ND
Copper, Total Recoverable	0.001	ND	ND
Lead, Total Recoverable	0.0003	ND	ND
Magnesium, Total Recoverable	1	ND	ND
Zinc, Total Recoverable	0.008	ND	ND
Mercury, Total	0.000005	ND	-
Mercury, Methyl	0.00000005	ND	-

ND — Not detected at analytical reporting limit.

Field blank concentration exceeds reporting limit. We recommend "B-flagging" all analyte concentrations (which are <10 times the blank value) from this sample period in the project database.

Table A3. Analyte concentrations in the second quarter during the peak of the spring snowmelt (June 10-11, 2014) surface water field blanks from the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Field blank (concentration; mg/L)	
		H14060255-017	H14060255-013
Total Suspended Sediment	1	3	ND
Total Alkalinity	4	ND	ND
Bicarbonate Alkalinity	4	ND	ND
Sulfate	1	ND	ND
Chloride	1	ND	ND
Hardness	1	ND	ND
Organic Carbon, Dissolved	0.1	0.4	0.3
Ammonia Nitrogen	0.05	ND	ND
Nitrate plus Nitrite Nitrogen	0.05	ND	ND
Total Nitrogen	0.05	ND	ND
Total Phosphorus	0.005	ND	ND
Arsenic, Dissolved	0.001	ND	ND
Cadmium, Dissolved	0.00003	ND	ND
Copper, Dissolved	0.001	ND	ND
Lead, Dissolved	0.0003	ND	ND
Zinc, Dissolved	0.008	0.014	ND
Arsenic, Total Recoverable	0.001	ND	ND
Cadmium, Total Recoverable	0.00003	ND	ND
Calcium, Total Recoverable	1	ND	ND
Copper, Total Recoverable	0.001	ND	ND
Lead, Total Recoverable	0.0003	ND	ND
Magnesium, Total Recoverable	1	ND	ND
Zinc, Total Recoverable	0.008	ND	ND
Mercury, Total	0.000005	ND	-
Mercury, Methyl	0.00000005	ND	-

ND	Not detected at analytical reporting limit.
	Field blank concentration exceeds reporting limit. We recommend "B-flagging" all analyte concentrations (which are <10 times the blank value) from this sample period in the project database.

Table A4. Analyte concentrations in the second quarter during the falling limb of the spring snowmelt (June 24-25, 2014) surface water field blanks from the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Field blank (concentration; mg/L)	
		H14060541-017	H14060541-013
Total Suspended Sediment	1	ND	ND
Total Alkalinity	4	ND	ND
Bicarbonate Alkalinity	4	ND	ND
Sulfate	1	ND	ND
Chloride	1	ND	ND
Hardness	1	ND	ND
Organic Carbon, Dissolved	0.1	0.5	ND
Ammonia Nitrogen	0.05	ND	ND
Nitrate plus Nitrite Nitrogen	0.05	ND	ND
Total Nitrogen	0.05	ND	ND
Total Phosphorus	0.005	ND	ND
Arsenic, Dissolved	0.001	ND	ND
Cadmium, Dissolved	0.00003	ND	ND
Copper, Dissolved	0.001	ND	ND
Lead, Dissolved	0.0003	ND	ND
Zinc, Dissolved	0.008	0.009	0.012
Arsenic, Total Recoverable	0.001	ND	ND
Cadmium, Total Recoverable	0.00003	ND	ND
Calcium, Total Recoverable	1	ND	ND
Copper, Total Recoverable	0.001	ND	ND
Lead, Total Recoverable	0.0003	ND	ND
Magnesium, Total Recoverable	1	ND	ND
Zinc, Total Recoverable	0.008	ND	ND
Mercury, Total	0.000005	ND	-
Mercury, Methyl	0.00000005	ND	-

ND — Not detected at analytical reporting limit.

Field blank concentration exceeds reporting limit. We recommend "B-flagging" all analyte concentrations (which are <10 times the blank value) from this sample period in the project database.

Table A5. Analyte concentrations in the third quarter (September 16-17, 2014) surface water field blanks from the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Field blank (concentration; mg/L)	
		H14090349-002	H14090349-013
Total Suspended Sediment	1	ND	ND
Total Alkalinity	4	ND	ND
Bicarbonate Alkalinity	4	ND	ND
Sulfate	1	ND	ND
Chloride	1	ND	ND
Hardness	1	ND	ND
Organic Carbon, Dissolved	0.1	ND	ND
Ammonia Nitrogen	0.05	ND	ND
Nitrate plus Nitrite Nitrogen	0.05	ND	ND
Total Nitrogen	0.05	ND	ND
Total Phosphorus	0.005	ND	ND
Arsenic, Dissolved	0.001	ND	ND
Cadmium, Dissolved	0.00003	ND	ND
Copper, Dissolved	0.001	ND	ND
Lead, Dissolved	0.0003	ND	ND
Zinc, Dissolved	0.008	0.014	0.012
Arsenic, Total Recoverable	0.001	ND	ND
Cadmium, Total Recoverable	0.00003	ND	ND
Calcium, Total Recoverable	1	ND	ND
Copper, Total Recoverable	0.001	ND	ND
Lead, Total Recoverable	0.0003	ND	ND
Magnesium, Total Recoverable	1	ND	ND
Zinc, Total Recoverable	0.008	ND	ND
Mercury, Total	0.000005	ND	ND
Mercury, Methyl	0.00000005	ND	ND

ND	Not detected at analytical reporting limit.
	Field blank concentration exceeds reporting limit. We recommend "B-flagging" all analyte concentrations (which are <10 times the blank value) from this sample period in the project database.

Table A6. Analyte concentrations in the fourth quarter (December 1-2, 2014) surface water field blanks from the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Field blank (concentration; mg/L)	
		H14120106-002	H14120106-013
Total Suspended Sediment	1	ND	ND
Total Alkalinity	4	ND	ND
Bicarbonate Alkalinity	4	ND	ND
Sulfate	1	ND	ND
Chloride	1	ND	ND
Hardness	1	ND	ND
Organic Carbon, Dissolved	0.1	0.5	ND
Ammonia Nitrogen	0.05	ND	ND
Nitrate plus Nitrite Nitrogen	0.05	ND	ND
Total Nitrogen	0.05	ND	0.11
Total Phosphorus	0.005	ND	0.005
Arsenic, Dissolved	0.001	ND	ND
Cadmium, Dissolved	0.00003	ND	ND
Copper, Dissolved	0.001	ND	ND
Lead, Dissolved	0.0003	ND	ND
Zinc, Dissolved	0.008	0.009	ND
Arsenic, Total Recoverable	0.001	ND	ND
Cadmium, Total Recoverable	0.00003	ND	ND
Calcium, Total Recoverable	1	ND	ND
Copper, Total Recoverable	0.001	ND	ND
Lead, Total Recoverable	0.0003	ND	ND
Magnesium, Total Recoverable	1	ND	ND
Zinc, Total Recoverable	0.008	ND	ND
Mercury, Total	0.000005	ND	-
Mercury, Methyl	0.00000005	ND	-

ND	Not detected at analytical reporting limit.
	Field blank concentration exceeds reporting limit. We recommend "B-flagging" all analyte concentrations (which are <10 times the blank value) from this sample period in the project database.

Table A7. Analyte concentrations in the first quarter (March 18, 2014) surface water field sample (H14030285-003) and field duplicate (H14030285-004) from site FC-CFR in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14030285-003	H14030285-004	
Total Suspended Sediment	1	23	22	4.3
Total Alkalinity	4	140	140	0.0
Bicarbonate Alkalinity	4	170	170	0.0
Sulfate	1	17	17	0.0
Chloride	1	6	6	0.0
Hardness	1	133	128	3.8
Organic Carbon, Dissolved	0.5	5.3	5.2	1.9
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	0.19	0.19	0.0
Total Nitrogen	0.05	0.84	0.84	0.0
Total Phosphorus	0.005	0.144	0.146	1.4
Arsenic, Dissolved	0.001	0.008	0.008	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.001	0.002	100.0
Lead, Dissolved	0.0003	0.0005	0.0005	0.0
Zinc, Dissolved	0.008	0.013	0.011	15.4
Arsenic, Total Recoverable	0.001	0.013	0.013	0.0
Cadmium, Total Recoverable	0.00003	0.00008	0.00008	0.0
Calcium, Total Recoverable	1	35	34	2.9
Copper, Total Recoverable	0.001	0.004	0.004	0.0
Lead, Total Recoverable	0.0003	0.0087	0.0088	1.1
Magnesium, Total Recoverable	1	11	11	0.0
Zinc, Total Recoverable	0.008	0.029	0.032	10.3
Mercury, Total	0.000005	0.000400	0.000350	12.5
Mercury, Methyl	0.00000005	0.00000114	0.00000134	17.5

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A8. Analyte concentrations in the first quarter (March 19, 2014) surface water field sample (H14030285-014) and field duplicate (H14030285-015) from site MCWC-MWB in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14030285-014	H14030285-015	
Total Suspended Sediment	1	6	8	28.6
Total Alkalinity	4	96	96	0.0
Bicarbonate Alkalinity	4	120	120	0.0
Sulfate	1	38	36	5.4
Chloride	1	2	2	0.0
Hardness	1	107	107	0.0
Organic Carbon, Dissolved	0.5	2	2	0.0
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	0.07	0.07	0.0
Total Nitrogen	0.05	0.16	0.18	11.8
Total Phosphorus	0.005	0.031	0.03	3.3
Arsenic, Dissolved	0.001	0.019	0.019	0.0
Cadmium, Dissolved	0.00003	0.00005	0.00005	0.0
Copper, Dissolved	0.001	0.003	0.003	0.0
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	0.014	0.016	13.3
Arsenic, Total Recoverable	0.001	0.022	0.022	0.0
Cadmium, Total Recoverable	0.00003	0.00013	0.00013	0.0
Calcium, Total Recoverable	1	30	30	0.0
Copper, Total Recoverable	0.001	0.008	0.009	11.8
Lead, Total Recoverable	0.0003	0.002	0.0022	9.5
Magnesium, Total Recoverable	1	8	8	0.0
Zinc, Total Recoverable	0.008	0.021	0.022	4.7

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A9. Analyte concentrations in the second quarter during the rising limb of the spring snowmelt (May 13, 2014) surface water field sample (H14050278-018) and field duplicate (H14050278-019) from site FC-CFR in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14050278-018	H14050278-019	
Total Suspended Sediment	1	16	16	0.0
Total Alkalinity	4	100	100	0.0
Bicarbonate Alkalinity	4	120	120	0.0
Sulfate	1	9	9	0.0
Chloride	1	3	3	0.0
Hardness	1	103	115	11.0
Organic Carbon, Dissolved	0.5	4.8	4.9	2.1
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.39	0.46	16.5
Total Phosphorus	0.005	0.045	0.044	2.2
Arsenic, Dissolved	0.001	0.006	0.006	0.0
Cadmium, Dissolved	0.00003	0.00004	ND	-
Copper, Dissolved	0.001	0.003	0.003	0.0
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	0.019	0.013	37.5
Arsenic, Total Recoverable	0.001	0.009	0.009	0.0
Cadmium, Total Recoverable	0.00003	0.00006	0.00006	0.0
Calcium, Total Recoverable	1	28	31	10.2
Copper, Total Recoverable	0.001	0.005	0.006	18.2
Lead, Total Recoverable	0.0003	0.0042	0.0042	0.0
Magnesium, Total Recoverable	1	8	9	11.8
Zinc, Total Recoverable	0.008	0.016	0.015	6.5
Mercury, Total	0.000005	0.000230	0.000400	54.0
Mercury, Methyl	0.00000005	0.00000081	0.00000084	3.9

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A10. Analyte concentrations in the second quarter during the rising limb of the spring snowmelt (May 14, 2014) surface water field sample (H14050278-014) and field duplicate (H14050278-015) from site MCWC-MWB in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14050278-014	H14050278-015	
Total Suspended Sediment	1	5	3	50.0
Total Alkalinity	4	56	55	1.8
Bicarbonate Alkalinity	4	67	67	0.0
Sulfate	1	12	12	0.0
Chloride	1	ND	ND	-
Hardness	1	59	58	1.7
Organic Carbon, Dissolved	0.5	3.9	4	2.5
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.24	0.26	8.0
Total Phosphorus	0.005	0.032	0.031	3.2
Arsenic, Dissolved	0.001	0.025	0.025	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.005	0.005	0.0
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	ND	0.012	-
Arsenic, Total Recoverable	0.001	0.027	0.027	0.0
Cadmium, Total Recoverable	0.00003	0.00009	0.00008	11.8
Calcium, Total Recoverable	1	17	17	0.0
Copper, Total Recoverable	0.001	0.008	0.008	0.0
Lead, Total Recoverable	0.0003	0.0012	0.0012	0.0
Magnesium, Total Recoverable	1	4	4	0.0
Zinc, Total Recoverable	0.008	ND	0.008	-

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A11. Analyte concentrations in the second quarter during the peak of the spring snowmelt (June 10, 2014) surface water field sample (H14060255-018) and field duplicate (H14060255-019) from site FC-CFR in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14060255-018	H14060255-019	
Total Suspended Sediment	1	18	15	18.2
Total Alkalinity	4	110	110	0.0
Bicarbonate Alkalinity	4	130	130	0.0
Sulfate	1	7	7	0.0
Chloride	1	2	2	0.0
Hardness	1	104	108	3.8
Organic Carbon, Dissolved	0.5	3.9	3.9	0.0
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.35	0.48	31.3
Total Phosphorus	0.005	0.046	0.045	2.2
Arsenic, Dissolved	0.001	0.008	0.008	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.001	0.001	0.0
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	0.011	0.01	9.5
Arsenic, Total Recoverable	0.001	0.012	0.011	8.7
Cadmium, Total Recoverable	0.00003	0.00006	0.00006	0.0
Calcium, Total Recoverable	1	29	31	6.7
Copper, Total Recoverable	0.001	0.003	0.003	0.0
Lead, Total Recoverable	0.0003	0.0051	0.0052	1.9
Magnesium, Total Recoverable	1	7	8	13.3
Zinc, Total Recoverable	0.008	0.017	0.016	6.1
Mercury, Total	0.000005	0.000360	0.000300	18.2
Mercury, Methyl	0.00000005	0.00000119	0.00000072	49.7

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A12. Analyte concentrations in the second quarter during the peak of the spring snowmelt (June 11, 2014) surface water field sample (H14060255-014) and field duplicate (H14060255-015) from site MCWC-MWB in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14060255-014	H14060255-015	
Total Suspended Sediment	1	8	8	0.0
Total Alkalinity	4	48	48	0.0
Bicarbonate Alkalinity	4	58	57	1.7
Sulfate	1	5	6	18.2
Chloride	1	ND	ND	-
Hardness	1	46	47	2.2
Organic Carbon, Dissolved	0.5	2.8	2.9	3.5
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.15	0.21	33.3
Total Phosphorus	0.005	0.026	0.026	0.0
Arsenic, Dissolved	0.001	0.019	0.019	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.003	0.003	0.0
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	0.010	0.022	75.0
Arsenic, Total Recoverable	0.001	0.021	0.021	0.0
Cadmium, Total Recoverable	0.00003	0.0001	0.0001	0.0
Calcium, Total Recoverable	1	13	13	0.0
Copper, Total Recoverable	0.001	0.007	0.007	0.0
Lead, Total Recoverable	0.0003	0.0014	0.0016	13.3
Magnesium, Total Recoverable	1	3	3	0.0
Zinc, Total Recoverable	0.008	ND	ND	-

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A13. Analyte concentrations in the second quarter during the falling limb of the spring snowmelt (June 24, 2014) surface water field sample (H14060541-018) and field duplicate (H14060541-019) from site FC-CFR in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14060541-018	H14060541-019	
Total Suspended Sediment	1	13	ND	>146
Total Alkalinity	4	140	140	0.0
Bicarbonate Alkalinity	4	160	170	6.1
Sulfate	1	8	8	0.0
Chloride	1	3	3	0.0
Hardness	1	129	122	5.6
Organic Carbon, Dissolved	0.5	4.7	4.9	4.2
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.34	0.21	47.3
Total Phosphorus	0.005	0.048	0.049	2.1
Arsenic, Dissolved	0.001	0.009	0.009	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.001	0.002	66.7
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	0.014	0.014	0.0
Arsenic, Total Recoverable	0.001	0.012	0.012	0.0
Cadmium, Total Recoverable	0.00003	0.00006	0.00005	18.2
Calcium, Total Recoverable	1	36	34	5.7
Copper, Total Recoverable	0.001	0.003	0.003	0.0
Lead, Total Recoverable	0.0003	0.0048	0.0039	20.7
Magnesium, Total Recoverable	1	9	9	0.0
Zinc, Total Recoverable	0.008	0.015	0.014	6.9
Mercury, Total	0.000005	0.000220	0.000190	14.6
Mercury, Methyl	0.00000005	0.00000099	0.00000103	4.0

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A14. Analyte concentrations in the second quarter during the falling limb of the spring snowmelt (June 25, 2014) surface water field sample (H14060541-011) and field duplicate (H14060541-015) from site MCWC-MWB in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14060541-011	H14060541-015	
Total Suspended Sediment	1	10	18	57.1
Total Alkalinity	4	60	51	16.2
Bicarbonate Alkalinity	4	72	61	16.5
Sulfate	1	25	6	122.6
Chloride	1	1	ND	-
Hardness	1	75	47	45.9
Organic Carbon, Dissolved	0.5	3.4	3.7	8.5
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.21	0.19	10.0
Total Phosphorus	0.005	0.028	0.034	19.4
Arsenic, Dissolved	0.001	0.024	0.025	4.1
Cadmium, Dissolved	0.00003	0.00003	0.00004	28.6
Copper, Dissolved	0.001	0.004	0.005	22.2
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	0.011	0.012	8.7
Arsenic, Total Recoverable	0.001	0.026	0.028	7.4
Cadmium, Total Recoverable	0.00003	0.00011	0.00016	37.0
Calcium, Total Recoverable	1	22	14	44.4
Copper, Total Recoverable	0.001	0.008	0.011	31.6
Lead, Total Recoverable	0.0003	0.0016	0.0026	47.6
Magnesium, Total Recoverable	1	5	3	50.0
Zinc, Total Recoverable	0.008	0.01	0.015	40.0

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A15. Analyte concentrations in the third quarter (September 16, 2014) surface water field sample (H14090349-003) and field duplicate (H14090349-004) from site FC-CFR in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14090349-003	H14090349-004	
Total Suspended Sediment	1	4	5	22.2
Total Alkalinity	4	190	190	0.0
Bicarbonate Alkalinity	4	220	220	0.0
Sulfate	1	19	19	0.0
Chloride	1	4	4	0.0
Hardness	1	195	192	1.6
Organic Carbon, Dissolved	0.5	2.9	2.9	0.0
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	0.28	0.08	111.1
Total Phosphorus	0.005	0.046	0.046	0.0
Arsenic, Dissolved	0.001	0.008	0.008	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	ND	ND	-
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	ND	ND	-
Arsenic, Total Recoverable	0.001	0.008	0.008	0.0
Cadmium, Total Recoverable	0.00003	ND	ND	-
Calcium, Total Recoverable	1	52	51	1.9
Copper, Total Recoverable	0.001	0.002	0.002	0.0
Lead, Total Recoverable	0.0003	0.0009	0.0009	0.0
Magnesium, Total Recoverable	1	16	16	0.0
Zinc, Total Recoverable	0.008	ND	ND	-
Mercury, Total	0.000005	0.000058	0.000038	41.7
Mercury, Methyl	0.00000005	0.00000046	0.00000062	30.4

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A16. Analyte concentrations in the third quarter (September 17, 2014) surface water field sample (H14090349-014) and field duplicate (H14090349-015) from site MCWC-MWB in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14090349-014	H14090349-015	
Total Suspended Sediment	1	2	2	0.0
Total Alkalinity	4	83	84	1.2
Bicarbonate Alkalinity	4	100	100	0.0
Sulfate	1	15	15	0.0
Chloride	1	1	1	0.0
Hardness	1	94	93	1.1
Organic Carbon, Dissolved	0.5	1.9	1.8	5.4
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	ND	ND	-
Total Nitrogen	0.05	ND	ND	-
Total Phosphorus	0.005	0.018	0.017	5.7
Arsenic, Dissolved	0.001	0.019	0.018	5.4
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.002	0.002	0.0
Lead, Dissolved	0.0003	0.0003	0.0003	0.0
Zinc, Dissolved	0.008	ND	ND	-
Arsenic, Total Recoverable	0.001	0.02	0.02	0.0
Cadmium, Total Recoverable	0.00003	0.00004	0.00005	22.2
Calcium, Total Recoverable	1	26	26	0.0
Copper, Total Recoverable	0.001	0.004	0.003	28.6
Lead, Total Recoverable	0.0003	0.0008	0.0008	0.0
Magnesium, Total Recoverable	1	7	7	0.0
Zinc, Total Recoverable	0.008	ND	ND	-

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A17. Analyte concentrations in the fourth quarter (December 1, 2014) surface water field sample (H14120106-003) and field duplicate (H14120106-004) from site FC-CFR in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14120106-003	H14120106-004	
Total Suspended Sediment	1	8	8	0.0
Total Alkalinity	4	180	180	0.0
Bicarbonate Alkalinity	4	220	210	4.7
Sulfate	1	16	16	0.0
Chloride	1	4	4	0.0
Hardness	1	170	169	0.6
Organic Carbon, Dissolved	0.5	2.3	2.3	0.0
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	0.21	0.2	4.9
Total Nitrogen	0.05	0.5	0.4	22.2
Total Phosphorus	0.005	0.046	0.048	4.3
Arsenic, Dissolved	0.001	0.006	0.006	0.0
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	ND	ND	-
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	ND	ND	-
Arsenic, Total Recoverable	0.001	0.007	0.007	0.0
Cadmium, Total Recoverable	0.00003	ND	ND	-
Calcium, Total Recoverable	1	46	45	2.2
Copper, Total Recoverable	0.001	0.002	0.007	111.1
Lead, Total Recoverable	0.0003	0.002	0.0016	22.2
Magnesium, Total Recoverable	1	14	14	0.0
Zinc, Total Recoverable	0.008	ND	0.009	-
Mercury, Total	0.000005	0.000190	0.000120	45.2
Mercury, Methyl	0.00000005	0.00000055	0.00000054	1.5

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A18. Analyte concentrations in the fourth quarter (December 2, 2014) surface water field sample (H14120106-014) and field duplicate (H14120106-015) from site MCWC-MWB in the Clark Fork River Operable Unit.

Analyte	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
		H14120106-014	H14120106-015	
Total Suspended Sediment	1	37	35	5.6
Total Alkalinity	4	98	99	1.0
Bicarbonate Alkalinity	4	120	120	0.0
Sulfate	1	24	24	0.0
Chloride	1	2	2	0.0
Hardness	1	108	108	0.0
Organic Carbon, Dissolved	0.5	1.7	1.7	0.0
Ammonia Nitrogen	0.05	ND	ND	-
Nitrate plus Nitrite Nitrogen	0.05	0.12	0.11	8.7
Total Nitrogen	0.05	0.42	0.45	6.9
Total Phosphorus	0.005	0.059	0.058	1.7
Arsenic, Dissolved	0.001	0.011	0.012	8.7
Cadmium, Dissolved	0.00003	ND	ND	-
Copper, Dissolved	0.001	0.001	0.001	0.0
Lead, Dissolved	0.0003	ND	ND	-
Zinc, Dissolved	0.008	ND	ND	-
Arsenic, Total Recoverable	0.001	0.019	0.02	5.1
Cadmium, Total Recoverable	0.00003	0.00034	0.00035	2.9
Calcium, Total Recoverable	1	30	31	3.3
Copper, Total Recoverable	0.001	0.034	0.034	0.0
Lead, Total Recoverable	0.0003	0.0112	0.0112	0.0
Magnesium, Total Recoverable	1	8	8	0.0
Zinc, Total Recoverable	0.008	0.054	0.055	1.8

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (25%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A19. Analyte concentrations in the first quarter (March 19, 2014) instream sediment field sample (H14030285-030) and field duplicate (H14030285-031) from site MCWC-MWB in the Streamside Tailings Operable Unit.

Analyte	Size fraction (mm)	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
			H14030285-030	H14030285-031	
Arsenic, Total	<0.065 mm	5	100	102	2.0
Cadmium, Total	<0.065 mm	0.2	6.6	6.9	4.4
Copper, Total	<0.065 mm	5	323	358	10.3
Lead, Total	<0.065 mm	9	157	156	0.6
Zinc, Total	<0.065 mm	5	519	570	9.4

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (40%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (40%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A20. Analyte concentrations in the third quarter (September 16, 2014) instream sediment field sample (H14090349-019) and field duplicate (H14090349-020) from site FC-CFR in the Streamside Tailings Operable Unit.

Analyte	Size fraction (mm)	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
			H14090349-019	H14090349-020	
Arsenic, Total	<0.065 mm	1	116	112	3.5
Cadmium, Total	<0.065 mm	0.5	2.7	2.6	3.8
Copper, Total	<0.065 mm	5	87	87	0.0
Lead, Total	<0.065 mm	5	266	262	1.5
Zinc, Total	<0.065 mm	10	785	770	1.9

ND Not detected at analytical reporting limit.

\- Relative percent difference unknown because one or both of the concentrations was unknown.

Relative percent difference of sample and duplicate pair exceeds project goal (40%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.

Relative percent difference of sample and duplicate pair exceeds project goal (40%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

Table A21. Analyte concentrations in the third quarter (September 17, 2014) instream sediment field sample (H14090349-029) and field duplicate (H14090349-030) from site MCWC-MWB in the Streamside Tailings Operable Unit.

Analyte	Size fraction (mm)	Reporting limit (mg/L)	Concentration (mg/L)		Relative percent difference (%)
			H14090349-019	H14090349-020	
Arsenic, Total	<0.065 mm	1	141	118	17.8
Cadmium, Total	<0.065 mm	0.4	9.6	8.5	12.2
Copper, Total	<0.065 mm	5	405	377	7.2
Lead, Total	<0.065 mm	5	204	189	7.6
Zinc, Total	<0.065 mm	10	640	625	2.4

ND	Not detected at analytical reporting limit.
-	Relative percent difference unknown because one or both of the concentrations was unknown.
	Relative percent difference of sample and duplicate pair exceeds project goal (40%). We recommend "J-flagging" all analyte concentrations (which are >5 times the reporting limit) from this sample period in the project database.
	Relative percent difference of sample and duplicate pair exceeds project goal (40%). However, because both of the concentrations were <5 times the reporting limit we do not recommend "J-flagging" any analytes in the project database.

APPENDIX B

ANALYTICAL LABORATORY RESULTS

APPENDIX B1

ANALYTICAL LABORATORY RESULTS
1ST QUARTER MONITORING

ANALYTICAL SUMMARY REPORT

May 16, 2014

MT DEQ-Federal Superfund
PO Box 200901
Helena, MT 59620-0901

Work Order: H14030285 Quote ID: H958

Project Name: CFR Monitoring-474374

Energy Laboratories Inc Helena MT received the following 33 samples for MT DEQ-Federal Superfund on 3/20/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H14030285-001	CFR-116A	03/18/14 9:00	03/20/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14030285-002	Field Blank #1	03/18/14 12:30	03/20/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Mercury, Total Recoverable Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Mercury by CVAA Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14030285-003	FC-CFR	03/18/14 13:30	03/20/14	Aqueous	Same As Above
H14030285-004	FC-CFR Duplicate	03/18/14 13:30	03/20/14	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

H14030285-005	LBR-CFR	03/18/14 15:00	03/20/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14030285-006	CFR-27H	03/18/14 16:30	03/20/14	Aqueous	Same As Above
H14030285-007	CFR-11F	03/18/14 17:45	03/20/14	Aqueous	Same As Above
H14030285-008	CFR-07D	03/19/14 8:45	03/20/14	Aqueous	Same As Above
H14030285-009	CFR-03A	03/19/14 10:00	03/20/14	Aqueous	Same As Above
H14030285-010	WSC-SBC	03/19/14 11:00	03/20/14	Aqueous	Same As Above
H14030285-011	SS-25	03/19/14 12:00	03/20/14	Aqueous	Same As Above
H14030285-012	MWB-SBC	03/19/14 13:30	03/20/14	Aqueous	Same As Above
H14030285-013	Field Blank #2	03/19/14 14:15	03/20/14	Aqueous	Same As Above
H14030285-014	MCWC-MWB	03/19/14 15:00	03/20/14	Aqueous	Same As Above
H14030285-015	MCWC-MWB Duplicate	03/19/14 15:00	03/20/14	Aqueous	Same As Above
H14030285-016	CFR-84F	03/18/14 11:00	03/20/14	Aqueous	Mercury, Total Recoverable Digestion, Mercury by CVAA Subcontracted, Analytics
H14030285-017	Field Blank #1	03/18/14 12:30	03/20/14	Aqueous	
H14030285-018	FC-CFR	03/18/14 13:30	03/20/14	Aqueous	
H14030285-019	FC-CFR Duplicate	03/18/14 13:30	03/20/14	Aqueous	
H14030285-020	TB 14-0034 3/7/14	03/18/14 9:00	03/20/14	Trip Blank	
H14030285-021	CFR-116A Sediment Sieve <0.065mm	03/18/14 9:00	03/20/14	Sediment	Metals by ICP/ICPMS, Total Percent Moisture Digestion, Total Metals Sieves Soil Preparation
H14030285-022	LBR-CFR Sediment Sieve <0.065mm	03/18/14 15:00	03/20/14	Sediment	Metals by ICP/ICPMS, Total Percent Moisture Digestion, Total Metals Sieves
H14030285-023	CFR-27H Sediment Sieve <0.065mm	03/18/14 16:30	03/20/14	Sediment	Same As Above
H14030285-024	CFR-11F Sediment Sieve <0.065mm	03/18/14 17:45	03/20/14	Sediment	Same As Above
H14030285-025	CFR-07D Sediment Sieve <0.065mm	03/19/14 8:45	03/20/14	Sediment	Same As Above
H14030285-026	CFR-03A Sediment Sieve <0.065mm	03/19/14 10:00	03/20/14	Sediment	Same As Above

ANALYTICAL SUMMARY REPORT

H14030285-027	WSC-SBC Sediment Sieve <0.065mm	03/19/14 11:00	03/20/14	Sediment	Same As Above
H14030285-028	SS-25 Sediment Sieve <0.065mm	03/19/14 12:00	03/20/14	Sediment	Same As Above
H14030285-029	MWB-SBC Sediment Sieve <0.065mm	03/19/14 13:30	03/20/14	Sediment	Same As Above
H14030285-030	MCWC-MWB Sediment Sieve <0.065mm	03/19/14 15:00	03/20/14	Sediment	Same As Above
H14030285-031	MCWC-MWB Duplicate Sediment Sieve <0.065mm	03/19/14 15:00	03/20/14	Sediment	Same As Above
H14030285-032	LC-7.5 Sediment Sieve <0.065mm	03/19/14 16:00	03/20/14	Sediment	Same As Above
H14030285-033	RTC-1.5 Sediment Sieve <0.065mm	03/19/14 16:45	03/20/14	Sediment	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Work Order: H14030285

Revised Date: 05/16/14
Report Date: 04/17/14

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Samples 016 through 020 were submitted to BrooksRandLabs for analysis of Methyl Mercury analysis, attached is the final report. Wj 4/16/14

Per client request, the TSS reporting limit was lowered to 1.0 mg/L, Copper to 0.001mg/L and Cadmium for the aqueous samples the reporting limit was changed to 0.00003 mg/L. abb 5/16/14

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14030285-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 09:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	39	mg/L		1		A2540 D	03/21/14 08:45 / JRS		I24 (14410200)_140321A	18	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	03/24/14 14:54 / JRS		MAN-TECH_140324A	27	R95766
Bicarbonate as HCO3	140	mg/L		4		A2320 B	03/24/14 14:54 / JRS		MAN-TECH_140324A	27	R95766
Chloride	7	mg/L		1		E300.0	03/24/14 12:53 / JRS		IC102-H_140324A	27	R95784
Sulfate	48	mg/L		1		E300.0	03/24/14 12:53 / JRS		IC102-H_140324A	27	R95784
Hardness as CaCO3	148	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	2	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.2	mg/L		0.5		A5310 C	03/24/14 17:30 / eli-c		SUB-C184755	16	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:01 / cm		FIA203-HE_140326B	21	R95816
Nitrogen, Nitrate+Nitrite as N	0.18	mg/L		0.05		E353.2	03/24/14 12:17 / cm		FIA203-HE_140324B	34	R95737
Nitrogen, Total	0.70	mg/L		0.05		A4500 N-C	03/28/14 13:10 / cm	03/28/14 09:43	FIA203-HE_140328A	13	24004
Phosphorus, Total as P	0.128	mg/L		0.005		E365.1	03/21/14 13:27 / cm	03/21/14 09:46	FIA202-HE_140321A	34	23913
METALS, DISSOLVED											
Arsenic	0.007	mg/L		0.001		E200.8	03/24/14 13:22 / dck		ICPMS204-B_140324A	28	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 13:22 / dck		ICPMS204-B_140324A	28	R95757
Copper	0.007	mg/L		0.001		E200.8	03/24/14 13:22 / dck		ICPMS204-B_140324A	28	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 13:22 / dck		ICPMS204-B_140324A	28	R95757
Zinc	0.015	mg/L		0.008		E200.8	03/24/14 13:22 / dck		ICPMS204-B_140324A	28	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	03/24/14 14:06 / dck	03/21/14 08:02	ICPMS204-B_140324A	38	23919
Cadmium	0.00024	mg/L		0.00003		E200.8	03/24/14 14:06 / dck	03/21/14 08:02	ICPMS204-B_140324A	38	23919
Calcium	42	mg/L		1		E200.7	03/24/14 14:29 / sld	03/21/14 08:02	ICP2-HE_140324B	30	23919
Copper	0.038	mg/L		0.001		E200.8	03/24/14 14:06 / dck	03/21/14 08:02	ICPMS204-B_140324A	38	23919
Lead	0.0079	mg/L		0.0003		E200.8	03/24/14 14:06 / dck	03/21/14 08:02	ICPMS204-B_140324A	38	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14030285-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 09:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	03/24/14 14:29 / sld	03/21/14 08:02	ICP2-HE_140324B	30	23919
Zinc	0.060	mg/L		0.008		E200.8	03/24/14 14:06 / dck	03/21/14 08:02	ICPMS204-B_140324A	38	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14030285-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 12:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	03/21/14 08:45 / JRS		I24 (14410200)_140321A	19	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	03/24/14 14:59 / JRS		MAN-TECH_140324A	28	R95766
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	03/24/14 14:59 / JRS		MAN-TECH_140324A	28	R95766
Chloride	ND	mg/L		1		E300.0	03/24/14 13:23 / JRS		IC102-H_140324A	30	R95784
Sulfate	ND	mg/L		1		E300.0	03/24/14 13:23 / JRS		IC102-H_140324A	30	R95784
Hardness as CaCO3	ND	mg/L		1		A2340 B	03/24/14 14:51 / abb		CALC_140326A	25	R95809
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	ND	mg/L		0.5		A5310 C	03/24/14 17:40 / eli-c		SUB-C184755	17	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:03 / cm		FIA203-HE_140326B	22	R95816
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	03/24/14 12:19 / cm		FIA203-HE_140324B	35	R95737
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	03/28/14 13:13 / cm	03/28/14 09:43	FIA203-HE_140328A	16	24004
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	03/21/14 13:28 / cm	03/21/14 09:46	FIA202-HE_140321A	35	23913
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	03/24/14 14:27 / dck		ICPMS204-B_140324A	43	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 14:27 / dck		ICPMS204-B_140324A	43	R95757
Copper	ND	mg/L		0.001		E200.8	03/24/14 14:27 / dck		ICPMS204-B_140324A	43	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 14:27 / dck		ICPMS204-B_140324A	43	R95757
Zinc	0.017	mg/L		0.008		E200.8	03/24/14 14:27 / dck		ICPMS204-B_140324A	43	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	03/24/14 14:31 / dck	03/21/14 08:02	ICPMS204-B_140324A	44	23919
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 14:31 / dck	03/21/14 08:02	ICPMS204-B_140324A	44	23919
Calcium	ND	mg/L		1		E200.7	03/24/14 14:51 / sld	03/21/14 08:02	ICP2-HE_140324B	36	23919
Copper	ND	mg/L		0.001		E200.8	03/24/14 14:31 / dck	03/21/14 08:02	ICPMS204-B_140324A	44	23919
Lead	ND	mg/L		0.0003		E200.8	03/24/14 14:31 / dck	03/21/14 08:02	ICPMS204-B_140324A	44	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14030285-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 12:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	03/24/14 14:51 / sld	03/21/14 08:02	ICP2-HE_140324B	36	23919
Mercury	ND	mg/L		5E-06		E245.1	03/27/14 12:46 / sbk	03/25/14 10:14	HGCV202-H_140327A	14	23953
Zinc	ND	mg/L		0.008		E200.8	03/24/14 14:31 / dck	03/21/14 08:02	ICPMS204-B_140324A	44	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14030285-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	23	mg/L		1		A2540 D	03/21/14 08:46 / JRS		I24 (14410200)_140321A	20	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	03/24/14 15:11 / JRS		MAN-TECH_140324A	31	R95766
Bicarbonate as HCO3	170	mg/L		4		A2320 B	03/24/14 15:11 / JRS		MAN-TECH_140324A	31	R95766
Chloride	6	mg/L		1		E300.0	03/24/14 13:54 / JRS		IC102-H_140324A	33	R95784
Sulfate	17	mg/L		1		E300.0	03/24/14 13:54 / JRS		IC102-H_140324A	33	R95784
Hardness as CaCO3	133	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	4	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	5.3	mg/L		0.5		A5310 C	03/24/14 17:51 / eli-c		SUB-C184755	18	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:06 / cm		FIA203-HE_140326B	25	R95816
Nitrogen, Nitrate+Nitrite as N	0.19	mg/L		0.05		E353.2	03/24/14 12:22 / cm		FIA203-HE_140324B	38	R95737
Nitrogen, Total	0.84	mg/L		0.05		A4500 N-C	03/28/14 13:14 / cm	03/28/14 09:43	FIA203-HE_140328A	17	24004
Phosphorus, Total as P	0.144	mg/L		0.005		E365.1	03/21/14 13:29 / cm	03/21/14 09:46	FIA202-HE_140321A	36	23913
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	03/24/14 14:36 / dck		ICPMS204-B_140324A	45	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 14:36 / dck		ICPMS204-B_140324A	45	R95757
Copper	0.001	mg/L		0.001		E200.8	03/24/14 14:36 / dck		ICPMS204-B_140324A	45	R95757
Lead	0.0005	mg/L		0.0003		E200.8	03/24/14 14:36 / dck		ICPMS204-B_140324A	45	R95757
Zinc	0.013	mg/L		0.008		E200.8	03/24/14 14:36 / dck		ICPMS204-B_140324A	45	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.013	mg/L		0.001		E200.8	03/24/14 14:40 / dck	03/21/14 08:02	ICPMS204-B_140324A	46	23919
Cadmium	0.00008	mg/L		0.00003		E200.8	03/24/14 14:40 / dck	03/21/14 08:02	ICPMS204-B_140324A	46	23919
Calcium	35	mg/L		1		E200.7	03/24/14 14:54 / sld	03/21/14 08:02	ICP2-HE_140324B	37	23919
Copper	0.004	mg/L		0.001		E200.8	03/24/14 14:40 / dck	03/21/14 08:02	ICPMS204-B_140324A	46	23919
Lead	0.0087	mg/L		0.0003		E200.8	03/24/14 14:40 / dck	03/21/14 08:02	ICPMS204-B_140324A	46	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14030285-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	03/24/14 14:54 / sld	03/21/14 08:02	ICP2-HE_140324B	37	23919
Mercury	0.00040	mg/L		5E-06		E245.1	03/27/14 12:50 / sbk	03/25/14 10:14	HGCV202-H_140327A	15	23953
Zinc	0.029	mg/L		0.008		E200.8	03/24/14 14:40 / dck	03/21/14 08:02	ICPMS204-B_140324A	46	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14030285-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	22	mg/L		1		A2540 D	03/21/14 08:46 / JRS		I24 (14410200)_140321A	21	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	03/24/14 15:18 / JRS		MAN-TECH_140324A	32	R95766
Bicarbonate as HCO3	170	mg/L		4		A2320 B	03/24/14 15:18 / JRS		MAN-TECH_140324A	32	R95766
Chloride	6	mg/L		1		E300.0	03/24/14 14:04 / JRS		IC102-H_140324A	34	R95784
Sulfate	17	mg/L		1		E300.0	03/24/14 14:04 / JRS		IC102-H_140324A	34	R95784
Hardness as CaCO3	128	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	5	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	5.2	mg/L		0.5		A5310 C	03/24/14 18:02 / eli-c		SUB-C184755	19	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:10 / cm		FIA203-HE_140326B	28	R95816
Nitrogen, Nitrate+Nitrite as N	0.19	mg/L		0.05		E353.2	03/24/14 12:26 / cm		FIA203-HE_140324B	41	R95737
Nitrogen, Total	0.84	mg/L		0.05		A4500 N-C	03/28/14 13:16 / cm	03/28/14 09:43	FIA203-HE_140328A	18	24004
Phosphorus, Total as P	0.146	mg/L		0.005		E365.1	03/21/14 13:30 / cm	03/21/14 09:46	FIA202-HE_140321A	37	23913
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	03/24/14 14:44 / dck		ICPMS204-B_140324A	47	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 14:44 / dck		ICPMS204-B_140324A	47	R95757
Copper	0.002	mg/L		0.001		E200.8	03/24/14 14:44 / dck		ICPMS204-B_140324A	47	R95757
Lead	0.0005	mg/L		0.0003		E200.8	03/24/14 14:44 / dck		ICPMS204-B_140324A	47	R95757
Zinc	0.011	mg/L		0.008		E200.8	03/24/14 14:44 / dck		ICPMS204-B_140324A	47	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.013	mg/L		0.001		E200.8	03/24/14 14:49 / dck	03/21/14 08:02	ICPMS204-B_140324A	48	23919
Cadmium	0.00008	mg/L		0.00003		E200.8	03/24/14 14:49 / dck	03/21/14 08:02	ICPMS204-B_140324A	48	23919
Calcium	34	mg/L		1		E200.7	03/24/14 14:58 / sld	03/21/14 08:02	ICP2-HE_140324B	38	23919
Copper	0.004	mg/L		0.001		E200.8	03/24/14 14:49 / dck	03/21/14 08:02	ICPMS204-B_140324A	48	23919
Lead	0.0088	mg/L		0.0003		E200.8	03/24/14 14:49 / dck	03/21/14 08:02	ICPMS204-B_140324A	48	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14030285-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	03/24/14 14:58 / sld	03/21/14 08:02	ICP2-HE_140324B	38	23919
Mercury	0.00035	mg/L		5E-06		E245.1	03/27/14 12:54 / sbk	03/25/14 10:14	HGCV202-H_140327A	16	23953
Zinc	0.032	mg/L		0.008		E200.8	03/24/14 14:49 / dck	03/21/14 08:02	ICPMS204-B_140324A	48	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR
Lab ID: H14030285-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	03/21/14 08:47 / JRS		I24 (14410200)_140321A	22	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	03/24/14 15:25 / JRS		MAN-TECH_140324A	33	R95766
Bicarbonate as HCO3	130	mg/L		4		A2320 B	03/24/14 15:25 / JRS		MAN-TECH_140324A	33	R95766
Chloride	4	mg/L		1		E300.0	03/24/14 14:14 / JRS		IC102-H_140324A	35	R95784
Sulfate	16	mg/L		1		E300.0	03/24/14 14:14 / JRS		IC102-H_140324A	35	R95784
Hardness as CaCO3	104	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	6	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.5		A5310 C	03/24/14 18:13 / eli-c		SUB-C184755	20	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:11 / cm		FIA203-HE_140326B	29	R95816
Nitrogen, Nitrate+Nitrite as N	0.06	mg/L		0.05		E353.2	03/24/14 12:27 / cm		FIA203-HE_140324B	42	R95737
Nitrogen, Total	0.32	mg/L		0.05		A4500 N-C	03/28/14 13:17 / cm	03/28/14 09:43	FIA203-HE_140328A	19	24004
Phosphorus, Total as P	0.074	mg/L		0.005		E365.1	03/21/14 13:31 / cm	03/21/14 09:46	FIA202-HE_140321A	38	23913
METALS, DISSOLVED											
Arsenic	0.004	mg/L		0.001		E200.8	03/24/14 14:53 / dck		ICPMS204-B_140324A	49	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 14:53 / dck		ICPMS204-B_140324A	49	R95757
Copper	0.001	mg/L		0.001		E200.8	03/24/14 14:53 / dck		ICPMS204-B_140324A	49	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 14:53 / dck		ICPMS204-B_140324A	49	R95757
Zinc	0.009	mg/L		0.008		E200.8	03/24/14 14:53 / dck		ICPMS204-B_140324A	49	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.005	mg/L		0.001		E200.8	03/24/14 15:11 / dck	03/21/14 08:02	ICPMS204-B_140324A	53	23919
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 15:11 / dck	03/21/14 08:02	ICPMS204-B_140324A	53	23919
Calcium	30	mg/L		1		E200.7	03/24/14 15:02 / sld	03/21/14 08:02	ICP2-HE_140324B	39	23919
Copper	0.001	mg/L		0.001		E200.8	03/24/14 15:11 / dck	03/21/14 08:02	ICPMS204-B_140324A	53	23919
Lead	0.0003	mg/L		0.0003		E200.8	03/24/14 15:11 / dck	03/21/14 08:02	ICPMS204-B_140324A	53	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR
Lab ID: H14030285-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	03/24/14 15:02 / sld	03/21/14 08:02	ICP2-HE_140324B	39	23919
Zinc	ND	mg/L		0.008		E200.8	03/24/14 15:11 / dck	03/21/14 08:02	ICPMS204-B_140324A	53	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14030285-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 16:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	45	mg/L		1		A2540 D	03/21/14 08:47 / JRS		I24 (14410200)_140321A	23	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	150	mg/L		4		A2320 B	03/24/14 15:32 / JRS		MAN-TECH_140324A	34	R95766
Bicarbonate as HCO3	180	mg/L		4		A2320 B	03/24/14 15:32 / JRS		MAN-TECH_140324A	34	R95766
Chloride	17	mg/L		1		E300.0	03/24/14 14:24 / JRS		IC102-H_140324A	36	R95784
Sulfate	110	mg/L		1		E300.0	03/24/14 14:24 / JRS		IC102-H_140324A	36	R95784
Hardness as CaCO3	221	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	7	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.1	mg/L		0.5		A5310 C	03/24/14 19:32 / eli-c		SUB-C184755	24	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	0.06	mg/L		0.05		E350.1	03/26/14 15:12 / cm		FIA203-HE_140326B	30	R95816
Nitrogen, Nitrate+Nitrite as N	0.41	mg/L		0.05		E353.2	03/24/14 12:28 / cm		FIA203-HE_140324B	43	R95737
Nitrogen, Total	0.94	mg/L		0.05		A4500 N-C	03/28/14 13:18 / cm	03/28/14 09:43	FIA203-HE_140328A	20	24004
Phosphorus, Total as P	0.091	mg/L		0.005		E365.1	03/21/14 13:36 / cm	03/21/14 09:47	FIA202-HE_140321A	43	23924
METALS, DISSOLVED											
Arsenic	0.014	mg/L		0.001		E200.8	03/24/14 15:15 / dck		ICPMS204-B_140324A	54	R95757
Cadmium	0.00007	mg/L		0.00003		E200.8	03/24/14 15:15 / dck		ICPMS204-B_140324A	54	R95757
Copper	0.010	mg/L		0.001		E200.8	03/24/14 15:15 / dck		ICPMS204-B_140324A	54	R95757
Lead	0.0003	mg/L		0.0003		E200.8	03/24/14 15:15 / dck		ICPMS204-B_140324A	54	R95757
Zinc	0.017	mg/L		0.008		E200.8	03/24/14 15:15 / dck		ICPMS204-B_140324A	54	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.023	mg/L		0.001		E200.8	03/24/14 15:19 / dck	03/21/14 08:02	ICPMS204-B_140324A	55	23919
Cadmium	0.00038	mg/L		0.00003		E200.8	03/24/14 15:19 / dck	03/21/14 08:02	ICPMS204-B_140324A	55	23919
Calcium	65	mg/L		1		E200.7	03/24/14 15:06 / sld	03/21/14 08:02	ICP2-HE_140324B	40	23919
Copper	0.083	mg/L		0.001		E200.8	03/24/14 15:19 / dck	03/21/14 08:02	ICPMS204-B_140324A	55	23919
Lead	0.0122	mg/L		0.0003		E200.8	03/24/14 15:19 / dck	03/21/14 08:02	ICPMS204-B_140324A	55	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14030285-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 16:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	14	mg/L		1		E200.7	03/24/14 15:06 / sld	03/21/14 08:02	ICP2-HE_140324B	40	23919
Zinc	0.075	mg/L		0.008		E200.8	03/24/14 15:19 / dck	03/21/14 08:02	ICPMS204-B_140324A	55	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14030285-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 17:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	19	mg/L		1		A2540 D	03/21/14 08:48 / JRS		I24 (14410200)_140321A	24	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	150	mg/L		4		A2320 B	03/24/14 15:40 / JRS		MAN-TECH_140324A	35	R95766
Bicarbonate as HCO3	180	mg/L		4		A2320 B	03/24/14 15:40 / JRS		MAN-TECH_140324A	35	R95766
Chloride	19	mg/L		1		E300.0	03/24/14 14:34 / JRS		IC102-H_140324A	37	R95784
Sulfate	130	mg/L		1		E300.0	03/24/14 14:34 / JRS		IC102-H_140324A	37	R95784
Hardness as CaCO3	244	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	8	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.5	mg/L		0.5		A5310 C	03/24/14 19:44 / eli-c		SUB-C184755	25	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	0.06	mg/L		0.05		E350.1	03/26/14 15:13 / cm		FIA203-HE_140326B	31	R95816
Nitrogen, Nitrate+Nitrite as N	0.38	mg/L		0.05		E353.2	03/24/14 12:29 / cm		FIA203-HE_140324B	44	R95737
Nitrogen, Total	0.88	mg/L		0.05		A4500 N-C	03/28/14 13:19 / cm	03/28/14 09:43	FIA203-HE_140328A	21	24004
Phosphorus, Total as P	0.064	mg/L		0.005		E365.1	03/21/14 13:39 / cm	03/21/14 09:47	FIA202-HE_140321A	46	23924
METALS, DISSOLVED											
Arsenic	0.015	mg/L		0.001		E200.8	03/24/14 15:24 / dck		ICPMS204-B_140324A	56	R95757
Cadmium	0.00006	mg/L		0.00003		E200.8	03/24/14 15:24 / dck		ICPMS204-B_140324A	56	R95757
Copper	0.008	mg/L		0.001		E200.8	03/24/14 15:24 / dck		ICPMS204-B_140324A	56	R95757
Lead	0.0003	mg/L		0.0003		E200.8	03/24/14 15:24 / dck		ICPMS204-B_140324A	56	R95757
Zinc	0.014	mg/L		0.008		E200.8	03/24/14 15:24 / dck		ICPMS204-B_140324A	56	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	03/24/14 15:28 / dck	03/21/14 08:02	ICPMS204-B_140324A	57	23919
Cadmium	0.00020	mg/L		0.00003		E200.8	03/24/14 15:28 / dck	03/21/14 08:02	ICPMS204-B_140324A	57	23919
Calcium	71	mg/L		1		E200.7	03/24/14 15:09 / sld	03/21/14 08:02	ICP2-HE_140324B	41	23919
Copper	0.036	mg/L		0.001		E200.8	03/24/14 15:28 / dck	03/21/14 08:02	ICPMS204-B_140324A	57	23919
Lead	0.0060	mg/L		0.0003		E200.8	03/24/14 15:28 / dck	03/21/14 08:02	ICPMS204-B_140324A	57	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14030285-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 17:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	16	mg/L		1		E200.7	03/24/14 15:09 / sld	03/21/14 08:02	ICP2-HE_140324B	41	23919
Zinc	0.041	mg/L		0.008		E200.8	03/24/14 15:28 / dck	03/21/14 08:02	ICPMS204-B_140324A	57	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14030285-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 08:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	13	mg/L		1		A2540 D	03/21/14 08:49 / JRS		I24 (14410200)_140321A	27	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	03/24/14 15:47 / JRS		MAN-TECH_140324A	36	R95766
Bicarbonate as HCO3	170	mg/L		4		A2320 B	03/24/14 15:47 / JRS		MAN-TECH_140324A	36	R95766
Chloride	20	mg/L		1		E300.0	03/24/14 14:44 / JRS		IC102-H_140324A	38	R95784
Sulfate	130	mg/L		1		E300.0	03/24/14 14:44 / JRS		IC102-H_140324A	38	R95784
Hardness as CaCO3	233	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	9	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.5		A5310 C	03/24/14 19:57 / eli-c		SUB-C184755	26	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:14 / cm		FIA203-HE_140326B	32	R95816
Nitrogen, Nitrate+Nitrite as N	0.38	mg/L		0.05		E353.2	03/24/14 12:30 / cm		FIA203-HE_140324B	45	R95737
Nitrogen, Total	0.86	mg/L		0.05		A4500 N-C	03/28/14 13:20 / cm	03/28/14 09:43	FIA203-HE_140328A	22	24004
Phosphorus, Total as P	0.067	mg/L		0.005		E365.1	03/21/14 13:40 / cm	03/21/14 09:47	FIA202-HE_140321A	47	23924
METALS, DISSOLVED											
Arsenic	0.015	mg/L		0.001		E200.8	03/24/14 15:32 / dck		ICPMS204-B_140324A	58	R95757
Cadmium	0.00005	mg/L		0.00003		E200.8	03/24/14 15:32 / dck		ICPMS204-B_140324A	58	R95757
Copper	0.008	mg/L		0.001		E200.8	03/24/14 15:32 / dck		ICPMS204-B_140324A	58	R95757
Lead	0.0004	mg/L		0.0003		E200.8	03/24/14 15:32 / dck		ICPMS204-B_140324A	58	R95757
Zinc	0.014	mg/L		0.008		E200.8	03/24/14 15:32 / dck		ICPMS204-B_140324A	58	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.018	mg/L		0.001		E200.8	03/24/14 15:37 / dck	03/21/14 08:02	ICPMS204-B_140324A	59	23919
Cadmium	0.00019	mg/L		0.00003		E200.8	03/24/14 15:37 / dck	03/21/14 08:02	ICPMS204-B_140324A	59	23919
Calcium	68	mg/L		1		E200.7	03/24/14 15:13 / sld	03/21/14 08:02	ICP2-HE_140324B	42	23919
Copper	0.028	mg/L		0.001		E200.8	03/24/14 15:37 / dck	03/21/14 08:02	ICPMS204-B_140324A	59	23919
Lead	0.0054	mg/L		0.0003		E200.8	03/24/14 15:37 / dck	03/21/14 08:02	ICPMS204-B_140324A	59	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14030285-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 08:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	15	mg/L		1		E200.7	03/24/14 15:13 / sld	03/21/14 08:02	ICP2-HE_140324B	42	23919
Zinc	0.036	mg/L		0.008		E200.8	03/24/14 15:37 / dck	03/21/14 08:02	ICPMS204-B_140324A	59	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14030285-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 10:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	5	mg/L		1		A2540 D	03/21/14 08:49 / JRS		I24 (14410200)_140321A	29	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	03/24/14 15:54 / JRS		MAN-TECH_140324A	37	R95766
Bicarbonate as HCO3	150	mg/L		4		A2320 B	03/24/14 15:54 / JRS		MAN-TECH_140324A	37	R95766
Chloride	25	mg/L		1		E300.0	03/24/14 14:54 / JRS		IC102-H_140324A	39	R95784
Sulfate	120	mg/L		1		E300.0	03/24/14 14:54 / JRS		IC102-H_140324A	39	R95784
Hardness as CaCO3	203	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	10	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.4	mg/L		0.5		A5310 C	03/24/14 20:09 / eli-c		SUB-C184755	27	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	0.11	mg/L		0.05		E350.1	03/26/14 15:16 / cm		FIA203-HE_140326B	33	R95816
Nitrogen, Nitrate+Nitrite as N	0.37	mg/L		0.05		E353.2	03/24/14 12:32 / cm		FIA203-HE_140324B	46	R95737
Nitrogen, Total	0.92	mg/L		0.05		A4500 N-C	03/27/14 14:47 / cm	03/24/14 09:30	FIA203-HE_140327B	41	23939
Phosphorus, Total as P	0.080	mg/L		0.005		E365.1	03/21/14 13:41 / cm	03/21/14 09:47	FIA202-HE_140321A	48	23924
METALS, DISSOLVED											
Arsenic	0.013	mg/L		0.001		E200.8	03/24/14 15:41 / dck		ICPMS204-B_140324A	60	R95757
Cadmium	0.00007	mg/L		0.00003		E200.8	03/24/14 15:41 / dck		ICPMS204-B_140324A	60	R95757
Copper	0.010	mg/L		0.001		E200.8	03/24/14 15:41 / dck		ICPMS204-B_140324A	60	R95757
Lead	0.0004	mg/L		0.0003		E200.8	03/24/14 15:41 / dck		ICPMS204-B_140324A	60	R95757
Zinc	0.014	mg/L		0.008		E200.8	03/24/14 15:41 / dck		ICPMS204-B_140324A	60	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.016	mg/L		0.001		E200.8	03/24/14 15:45 / dck	03/21/14 08:02	ICPMS204-B_140324A	61	23919
Cadmium	0.00018	mg/L		0.00003		E200.8	03/24/14 15:45 / dck	03/21/14 08:02	ICPMS204-B_140324A	61	23919
Calcium	60	mg/L		1		E200.7	03/24/14 15:24 / sld	03/21/14 08:02	ICP2-HE_140324B	45	23919
Copper	0.023	mg/L		0.001		E200.8	03/24/14 15:45 / dck	03/21/14 08:02	ICPMS204-B_140324A	61	23919
Lead	0.0051	mg/L		0.0003		E200.8	03/24/14 15:45 / dck	03/21/14 08:02	ICPMS204-B_140324A	61	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14030285-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 10:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	13	mg/L		1		E200.7	03/24/14 15:24 / sld	03/21/14 08:02	ICP2-HE_140324B	45	23919
Zinc	0.037	mg/L		0.008		E200.8	03/24/14 15:45 / dck	03/21/14 08:02	ICPMS204-B_140324A	61	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14030285-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 11:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	03/21/14 08:50 / JRS		I24 (14410200)_140321A	30	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	150	mg/L		4		A2320 B	03/24/14 16:01 / JRS		MAN-TECH_140324A	38	R95766
Bicarbonate as HCO3	190	mg/L		4		A2320 B	03/24/14 16:01 / JRS		MAN-TECH_140324A	38	R95766
Chloride	3	mg/L		1		E300.0	03/24/14 15:04 / JRS		IC102-H_140324A	40	R95784
Sulfate	84	mg/L		1		E300.0	03/24/14 15:04 / JRS		IC102-H_140324A	40	R95784
Hardness as CaCO3	217	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	11	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.4	mg/L		0.5		A5310 C	03/24/14 20:19 / eli-c		SUB-C184755	28	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:17 / cm		FIA203-HE_140326B	34	R95816
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	03/24/14 12:33 / cm		FIA203-HE_140324B	47	R95737
Nitrogen, Total	0.06	mg/L		0.05		A4500 N-C	03/27/14 14:51 / cm	03/24/14 09:30	FIA203-HE_140327B	44	23939
Phosphorus, Total as P	0.008	mg/L		0.005		E365.1	03/21/14 13:42 / cm	03/21/14 09:47	FIA202-HE_140321A	49	23924
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	03/24/14 15:50 / dck		ICPMS204-B_140324A	62	R95757
Cadmium	0.00004	mg/L		0.00003		E200.8	03/24/14 15:50 / dck		ICPMS204-B_140324A	62	R95757
Copper	0.003	mg/L		0.001		E200.8	03/24/14 15:50 / dck		ICPMS204-B_140324A	62	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 15:50 / dck		ICPMS204-B_140324A	62	R95757
Zinc	ND	mg/L		0.008		E200.8	03/24/14 15:50 / dck		ICPMS204-B_140324A	62	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.008	mg/L		0.001		E200.8	03/24/14 16:07 / dck	03/21/14 08:02	ICPMS204-B_140324A	66	23919
Cadmium	0.00008	mg/L		0.00003		E200.8	03/24/14 16:07 / dck	03/21/14 08:02	ICPMS204-B_140324A	66	23919
Calcium	65	mg/L		1		E200.7	03/24/14 15:28 / sld	03/21/14 08:02	ICP2-HE_140324B	46	23919
Copper	0.008	mg/L		0.001		E200.8	03/24/14 16:07 / dck	03/21/14 08:02	ICPMS204-B_140324A	66	23919
Lead	0.0005	mg/L		0.0003		E200.8	03/24/14 16:07 / dck	03/21/14 08:02	ICPMS204-B_140324A	66	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14030285-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 11:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	13	mg/L		1		E200.7	03/24/14 15:28 / sld	03/21/14 08:02	ICP2-HE_140324B	46	23919
Zinc	0.009	mg/L		0.008		E200.8	03/24/14 16:07 / dck	03/21/14 08:02	ICPMS204-B_140324A	66	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14030285-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 12:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	7	mg/L		1		A2540 D	03/21/14 08:50 / JRS		I24 (14410200)_140321A	31	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	03/24/14 16:08 / JRS		MAN-TECH_140324A	39	R95766
Bicarbonate as HCO3	130	mg/L		4		A2320 B	03/24/14 16:08 / JRS		MAN-TECH_140324A	39	R95766
Chloride	30	mg/L		1		E300.0	03/24/14 15:14 / JRS		IC102-H_140324A	41	R95784
Sulfate	110	mg/L		1		E300.0	03/24/14 15:14 / JRS		IC102-H_140324A	41	R95784
Hardness as CaCO3	193	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	12	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	5.0	mg/L		0.5		A5310 C	03/24/14 20:31 / eli-c		SUB-C184755	29	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	1.08	mg/L		0.05		E350.1	03/26/14 15:18 / cm		FIA203-HE_140326B	35	R95816
Nitrogen, Nitrate+Nitrite as N	0.44	mg/L		0.05		E353.2	03/24/14 12:34 / cm		FIA203-HE_140324B	48	R95737
Nitrogen, Total	1.08	mg/L		0.05		A4500 N-C	03/27/14 14:52 / cm	03/24/14 09:30	FIA203-HE_140327B	45	23939
Phosphorus, Total as P	0.113	mg/L		0.005		E365.1	03/21/14 13:43 / cm	03/21/14 09:47	FIA202-HE_140321A	50	23924
METALS, DISSOLVED											
Arsenic	0.014	mg/L		0.001		E200.8	03/24/14 16:11 / dck		ICPMS204-B_140324A	67	R95757
Cadmium	0.00008	mg/L		0.00003		E200.8	03/24/14 16:11 / dck		ICPMS204-B_140324A	67	R95757
Copper	0.011	mg/L		0.001		E200.8	03/24/14 16:11 / dck		ICPMS204-B_140324A	67	R95757
Lead	0.0005	mg/L		0.0003		E200.8	03/24/14 16:11 / dck		ICPMS204-B_140324A	67	R95757
Zinc	0.012	mg/L		0.008		E200.8	03/24/14 16:11 / dck		ICPMS204-B_140324A	67	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.016	mg/L		0.001		E200.8	03/24/14 16:29 / dck	03/21/14 08:02	ICPMS204-B_140324A	71	23919
Cadmium	0.00019	mg/L		0.00003		E200.8	03/24/14 16:29 / dck	03/21/14 08:02	ICPMS204-B_140324A	71	23919
Calcium	57	mg/L		1		E200.7	03/24/14 15:32 / sld	03/21/14 08:02	ICP2-HE_140324B	47	23919
Copper	0.022	mg/L		0.001		E200.8	03/24/14 16:29 / dck	03/21/14 08:02	ICPMS204-B_140324A	71	23919
Lead	0.0056	mg/L		0.0003		E200.8	03/24/14 16:29 / dck	03/21/14 08:02	ICPMS204-B_140324A	71	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14030285-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 12:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	13	mg/L		1		E200.7	03/24/14 15:32 / sld	03/21/14 08:02	ICP2-HE_140324B	47	23919
Zinc	0.041	mg/L		0.008		E200.8	03/24/14 16:29 / dck	03/21/14 08:02	ICPMS204-B_140324A	71	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14030285-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	4	mg/L		1		A2540 D	03/21/14 08:51 / JRS		I24 (14410200)_140321A	32	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	03/24/14 16:32 / JRS		MAN-TECH_140324A	45	R95766
Bicarbonate as HCO3	140	mg/L		4		A2320 B	03/24/14 16:32 / JRS		MAN-TECH_140324A	45	R95766
Chloride	7	mg/L		1		E300.0	03/24/14 15:45 / JRS		IC102-H_140324A	44	R95784
Sulfate	160	mg/L		1		E300.0	03/24/14 15:45 / JRS		IC102-H_140324A	44	R95784
Hardness as CaCO3	239	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	13	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.4	mg/L		0.5		A5310 C	03/24/14 20:42 / eli-c		SUB-C184755	30	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/26/14 15:19 / cm		FIA203-HE_140326B	36	R95816
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	03/24/14 12:35 / cm		FIA203-HE_140324B	49	R95737
Nitrogen, Total	0.19	mg/L		0.05		A4500 N-C	03/27/14 14:53 / cm	03/24/14 09:30	FIA203-HE_140327B	46	23939
Phosphorus, Total as P	0.027	mg/L		0.005		E365.1	03/21/14 13:44 / cm	03/21/14 09:47	FIA202-HE_140321A	51	23924
METALS, DISSOLVED											
Arsenic	0.018	mg/L		0.001		E200.8	03/24/14 16:50 / dck		ICPMS204-B_140324A	76	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 16:50 / dck		ICPMS204-B_140324A	76	R95757
Copper	0.002	mg/L		0.001		E200.8	03/24/14 16:50 / dck		ICPMS204-B_140324A	76	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 16:50 / dck		ICPMS204-B_140324A	76	R95757
Zinc	0.011	mg/L		0.008		E200.8	03/24/14 16:50 / dck		ICPMS204-B_140324A	76	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	03/24/14 16:54 / dck	03/21/14 08:02	ICPMS204-B_140324A	77	23919
Cadmium	0.00009	mg/L		0.00003		E200.8	03/24/14 16:54 / dck	03/21/14 08:02	ICPMS204-B_140324A	77	23919
Calcium	69	mg/L		1		E200.7	03/24/14 15:47 / sld	03/21/14 08:02	ICP2-HE_140324B	51	23919
Copper	0.006	mg/L		0.001		E200.8	03/24/14 16:54 / dck	03/21/14 08:02	ICPMS204-B_140324A	77	23919
Lead	0.0015	mg/L		0.0003		E200.8	03/24/14 16:54 / dck	03/21/14 08:02	ICPMS204-B_140324A	77	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14030285-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	16	mg/L		1		E200.7	03/24/14 15:47 / sld	03/21/14 08:02	ICP2-HE_140324B	51	23919
Zinc	0.017	mg/L		0.008		E200.8	03/24/14 16:54 / dck	03/21/14 08:02	ICPMS204-B_140324A	77	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14030285-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 14:15
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	03/21/14 08:51 / JRS		I24 (14410200)_140321A	33	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	03/24/14 16:42 / JRS		MAN-TECH_140324A	48	R95766
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	03/24/14 16:42 / JRS		MAN-TECH_140324A	48	R95766
Chloride	7	mg/L		1		E300.0	03/24/14 16:15 / JRS		IC102-H_140324A	47	R95784
Sulfate	ND	mg/L		1		E300.0	03/24/14 16:15 / JRS		IC102-H_140324A	47	R95784
Hardness as CaCO3	ND	mg/L		1		A2340 B	03/24/14 15:50 / abb		CALC_140402A	256	R95976
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	ND	mg/L		0.5		A5310 C	03/24/14 20:52 / eli-c		SUB-C184755	31	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/31/14 09:25 / cm		FIA203-HE_140331A	11	R95894
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	03/24/14 13:10 / cm		FIA203-HE_140324C	14	R95743
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	03/27/14 14:54 / cm	03/24/14 09:30	FIA203-HE_140327B	47	23939
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	03/21/14 13:45 / cm	03/21/14 09:47	FIA202-HE_140321A	52	23924
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	03/24/14 16:59 / dck		ICPMS204-B_140324A	78	R95757
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 16:59 / dck		ICPMS204-B_140324A	78	R95757
Copper	ND	mg/L		0.001		E200.8	03/24/14 16:59 / dck		ICPMS204-B_140324A	78	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 16:59 / dck		ICPMS204-B_140324A	78	R95757
Zinc	ND	mg/L		0.008		E200.8	03/24/14 16:59 / dck		ICPMS204-B_140324A	78	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	03/24/14 17:16 / dck	03/21/14 08:02	ICPMS204-B_140324A	82	23919
Cadmium	ND	mg/L		0.00003		E200.8	03/24/14 17:16 / dck	03/21/14 08:02	ICPMS204-B_140324A	82	23919
Calcium	ND	mg/L		1		E200.7	03/24/14 15:50 / sld	03/21/14 08:02	ICP2-HE_140324B	52	23919
Copper	ND	mg/L		0.001		E200.8	03/24/14 17:16 / dck	03/21/14 08:02	ICPMS204-B_140324A	82	23919
Lead	ND	mg/L		0.0003		E200.8	03/24/14 17:16 / dck	03/21/14 08:02	ICPMS204-B_140324A	82	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14030285-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 14:15
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	03/24/14 15:50 / sld	03/21/14 08:02	ICP2-HE_140324B	52	23919
Zinc	ND	mg/L		0.008		E200.8	03/24/14 17:16 / dck	03/21/14 08:02	ICPMS204-B_140324A	82	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14030285-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	6	mg/L		1		A2540 D	03/21/14 08:51 / JRS		I24 (14410200)_140321A	34	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	96	mg/L		4		A2320 B	03/24/14 16:58 / JRS		MAN-TECH_140324A	51	R95766
Bicarbonate as HCO3	120	mg/L		4		A2320 B	03/24/14 16:58 / JRS		MAN-TECH_140324A	51	R95766
Chloride	2	mg/L		1		E300.0	03/24/14 16:25 / JRS		IC102-H_140324A	48	R95784
Sulfate	38	mg/L		1		E300.0	03/24/14 16:25 / JRS		IC102-H_140324A	48	R95784
Hardness as CaCO3	107	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	15	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.0	mg/L		0.5		A5310 C	03/24/14 21:02 / eli-c		SUB-C184755	32	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/31/14 09:29 / cm		FIA203-HE_140331A	14	R95894
Nitrogen, Nitrate+Nitrite as N	0.07	mg/L		0.05		E353.2	03/24/14 13:14 / cm		FIA203-HE_140324C	17	R95743
Nitrogen, Total	0.16	mg/L		0.05		A4500 N-C	03/27/14 14:55 / cm	03/24/14 09:30	FIA203-HE_140327B	48	23939
Phosphorus, Total as P	0.031	mg/L		0.005		E365.1	03/21/14 13:46 / cm	03/21/14 09:47	FIA202-HE_140321A	53	23924
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	03/24/14 17:21 / dck		ICPMS204-B_140324A	83	R95757
Cadmium	0.00005	mg/L		0.00003		E200.8	03/24/14 17:21 / dck		ICPMS204-B_140324A	83	R95757
Copper	0.003	mg/L		0.001		E200.8	03/24/14 17:21 / dck		ICPMS204-B_140324A	83	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 17:21 / dck		ICPMS204-B_140324A	83	R95757
Zinc	0.014	mg/L		0.008		E200.8	03/24/14 17:21 / dck		ICPMS204-B_140324A	83	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.022	mg/L		0.001		E200.8	03/24/14 17:25 / dck	03/21/14 08:02	ICPMS204-B_140324A	84	23919
Cadmium	0.00013	mg/L		0.00003		E200.8	03/24/14 17:25 / dck	03/21/14 08:02	ICPMS204-B_140324A	84	23919
Calcium	30	mg/L		1		E200.7	03/24/14 15:54 / sld	03/21/14 08:02	ICP2-HE_140324B	53	23919
Copper	0.008	mg/L		0.001		E200.8	03/24/14 17:25 / dck	03/21/14 08:02	ICPMS204-B_140324A	84	23919
Lead	0.0020	mg/L		0.0003		E200.8	03/24/14 17:25 / dck	03/21/14 08:02	ICPMS204-B_140324A	84	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14030285-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	03/24/14 15:54 / sld	03/21/14 08:02	ICP2-HE_140324B	53	23919
Zinc	0.021	mg/L		0.008		E200.8	03/24/14 17:25 / dck	03/21/14 08:02	ICPMS204-B_140324A	84	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14030285-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	03/21/14 08:52 / JRS		I24 (14410200)_140321A	35	TSS140321A
INORGANICS											
Alkalinity, Total as CaCO3	96	mg/L		4		A2320 B	03/24/14 17:05 / JRS		MAN-TECH_140324A	52	R95766
Bicarbonate as HCO3	120	mg/L		4		A2320 B	03/24/14 17:05 / JRS		MAN-TECH_140324A	52	R95766
Chloride	2	mg/L		1		E300.0	03/24/14 16:35 / JRS		IC102-H_140324A	49	R95784
Sulfate	36	mg/L		1		E300.0	04/01/14 12:49 / abb		IC102-H_140401A	25	R95949
Hardness as CaCO3	107	mg/L		1		A2340 B	03/25/14 16:10 / sld		WATERCALC_140325B	16	R95778
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.0	mg/L		0.5		A5310 C	03/24/14 21:13 / eli-c		SUB-C184755	33	C_40890
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	03/31/14 09:30 / cm		FIA203-HE_140331A	15	R95894
Nitrogen, Nitrate+Nitrite as N	0.07	mg/L		0.05		E353.2	03/24/14 13:15 / cm		FIA203-HE_140324C	18	R95743
Nitrogen, Total	0.18	mg/L		0.05		A4500 N-C	03/27/14 14:57 / cm	03/24/14 09:30	FIA203-HE_140327B	49	23939
Phosphorus, Total as P	0.030	mg/L		0.005		E365.1	03/21/14 13:47 / cm	03/21/14 09:47	FIA202-HE_140321A	54	23924
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	03/24/14 17:30 / dck		ICPMS204-B_140324A	85	R95757
Cadmium	0.00005	mg/L		0.00003		E200.8	03/24/14 17:30 / dck		ICPMS204-B_140324A	85	R95757
Copper	0.003	mg/L		0.001		E200.8	03/24/14 17:30 / dck		ICPMS204-B_140324A	85	R95757
Lead	ND	mg/L		0.0003		E200.8	03/24/14 17:30 / dck		ICPMS204-B_140324A	85	R95757
Zinc	0.016	mg/L		0.008		E200.8	03/24/14 17:30 / dck		ICPMS204-B_140324A	85	R95757
METALS, TOTAL RECOVERABLE											
Arsenic	0.022	mg/L		0.001		E200.8	03/24/14 17:34 / dck	03/21/14 08:02	ICPMS204-B_140324A	86	23919
Cadmium	0.00013	mg/L		0.00003		E200.8	03/24/14 17:34 / dck	03/21/14 08:02	ICPMS204-B_140324A	86	23919
Calcium	30	mg/L		1		E200.7	03/24/14 15:58 / sld	03/21/14 08:02	ICP2-HE_140324B	54	23919
Copper	0.009	mg/L		0.001		E200.8	03/24/14 17:34 / dck	03/21/14 08:02	ICPMS204-B_140324A	86	23919
Lead	0.0022	mg/L		0.0003		E200.8	03/24/14 17:34 / dck	03/21/14 08:02	ICPMS204-B_140324A	86	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14030285-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/19/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	03/24/14 15:58 / sld	03/21/14 08:02	ICP2-HE_140324B	: 54	23919
Zinc	0.022	mg/L		0.008		E200.8	03/24/14 17:34 / dck	03/21/14 08:02	ICPMS204-B_140324A	: 86	23919

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14030285-016
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 03/18/14 11:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Mercury	0.00016	mg/L		5E-06		E245.1	03/25/14 16:10 / sbk	03/24/14 08:39	HGCV202-H_140325A	: 18	23935

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A Sediment Sieve <0.065mm
Lab ID: H14030285-021
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/18/14 09:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	41.4	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324E	1	R95865
PHYSICAL CHARACTERISTICS											
Moisture	68.0	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401B	1	R95975
3050 EXTRACTABLE METALS											
Arsenic	15	mg/kg	D	2		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	33	23973
Cadmium	1.3	mg/kg		0.2		SW6020	03/31/14 14:04 / dck	03/26/14 14:04	ICPMS204-B_140331B	29	23973
Copper	159	mg/kg		5		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	33	23973
Lead	30	mg/kg		5		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	33	23973
Zinc	254	mg/kg		5		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	33	23973
METAL, DRY WEIGHT											
Arsenic	48	mg/kg-dry	D	6		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	139	23973
Cadmium	4.1	mg/kg-dry		0.2		SW6020	03/31/14 14:04 / dck	03/26/14 14:04	ICPMS204-B_140331B	138	23973
Copper	497	mg/kg-dry		5		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	139	23973
Lead	94	mg/kg-dry		10		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	139	23973
Zinc	795	mg/kg-dry		5		SW6010B	03/31/14 16:54 / sld	03/26/14 14:04	ICP2-HE_140331B	139	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR Sediment Sieve <0.065mm
Lab ID: H14030285-022
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/18/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	8.4	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 2	R95865
PHYSICAL CHARACTERISTICS											
Moisture	59.2	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 3	R95975
3050 EXTRACTABLE METALS											
Arsenic	9	mg/kg		1		SW6020	03/31/14 14:26 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 34	23973
Cadmium	0.5	mg/kg		0.2		SW6020	03/31/14 14:26 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 34	23973
Copper	17	mg/kg		5		SW6010B	03/31/14 17:20 / sld	03/26/14 14:04	ICP2-HE_140331	B : 40	23973
Lead	24	mg/kg		5		SW6010B	04/01/14 18:55 / sld	03/26/14 14:04	ICP2-HE_140401	B : 29	23973
Zinc	55	mg/kg		5		SW6010B	03/31/14 17:20 / sld	03/26/14 14:04	ICP2-HE_140331	B : 40	23973
METAL, DRY WEIGHT											
Arsenic	22	mg/kg-dry		1		SW6020	03/31/14 14:26 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 143	23973
Cadmium	1.1	mg/kg-dry		0.2		SW6020	03/31/14 14:26 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 143	23973
Copper	41	mg/kg-dry		5		SW6010B	03/31/14 17:20 / sld	03/26/14 14:04	ICP2-HE_140331	B : 146	23973
Lead	59	mg/kg-dry		8		SW6010B	04/01/14 18:55 / sld	03/26/14 14:04	ICP2-HE_140401	B : 110	23973
Zinc	134	mg/kg-dry		5		SW6010B	03/31/14 17:20 / sld	03/26/14 14:04	ICP2-HE_140331	B : 146	23973

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H Sediment Sieve <0.065mm
Lab ID: H14030285-023
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/18/14 16:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	33.4	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324E	: 3	R95865
PHYSICAL CHARACTERISTICS											
Moisture	66.1	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401B	: 4	R95975
3050 EXTRACTABLE METALS											
Arsenic	55	mg/kg	D	2		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 41	23973
Cadmium	2.2	mg/kg		0.2		SW6020	03/31/14 14:31 / dck	03/26/14 14:04	ICPMS204-B_140331B	: 35	23973
Copper	533	mg/kg		5		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 41	23973
Lead	71	mg/kg		5		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 41	23973
Zinc	363	mg/kg		5		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 41	23973
METAL, DRY WEIGHT											
Arsenic	163	mg/kg-dry	D	5		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 147	23973
Cadmium	6.3	mg/kg-dry		0.2		SW6020	03/31/14 14:31 / dck	03/26/14 14:04	ICPMS204-B_140331B	: 144	23973
Copper	1570	mg/kg-dry		5		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 147	23973
Lead	209	mg/kg-dry		9		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 147	23973
Zinc	1070	mg/kg-dry		5		SW6010B	03/31/14 17:24 / sld	03/26/14 14:04	ICP2-HE_140331B	: 147	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F Sediment Sieve <0.065mm
Lab ID: H14030285-024
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/18/14 17:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	6.2	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324E	4	R95865
PHYSICAL CHARACTERISTICS											
Moisture	61.5	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401B	5	R95975
3050 EXTRACTABLE METALS											
Arsenic	50	mg/kg	D	2		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	42	23973
Cadmium	2.4	mg/kg		0.2		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	42	23973
Copper	451	mg/kg		5		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	42	23973
Lead	66	mg/kg		5		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	42	23973
Zinc	411	mg/kg		5		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	42	23973
METAL, DRY WEIGHT											
Arsenic	131	mg/kg-dry	D	4		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	148	23973
Cadmium	6.2	mg/kg-dry		0.2		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	148	23973
Copper	1170	mg/kg-dry		5		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	148	23973
Lead	171	mg/kg-dry		8		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	148	23973
Zinc	1070	mg/kg-dry		5		SW6010B	03/31/14 17:27 / sld	03/26/14 14:04	ICP2-HE_140331B	148	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D Sediment Sieve <0.065mm
Lab ID: H14030285-025
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 08:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	15.7	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324E	: 5	R95865
PHYSICAL CHARACTERISTICS											
Moisture	55.0	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401B	: 6	R95975
3050 EXTRACTABLE METALS											
Arsenic	60	mg/kg	D	2		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 43	23973
Cadmium	2.0	mg/kg		0.2		SW6020	03/31/14 14:53 / dck	03/26/14 14:04	ICPMS204-B_140331B	: 40	23973
Copper	548	mg/kg		5		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 43	23973
Lead	80	mg/kg		5		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 43	23973
Zinc	411	mg/kg		5		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 43	23973
METAL, DRY WEIGHT											
Arsenic	133	mg/kg-dry	D	4		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 149	23973
Cadmium	4.4	mg/kg-dry		0.2		SW6020	03/31/14 14:53 / dck	03/26/14 14:04	ICPMS204-B_140331B	: 149	23973
Copper	1220	mg/kg-dry		5		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 149	23973
Lead	178	mg/kg-dry		7		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 149	23973
Zinc	912	mg/kg-dry		5		SW6010B	03/31/14 17:31 / sld	03/26/14 14:04	ICP2-HE_140331B	: 149	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A Sediment Sieve <0.065mm
Lab ID: H14030285-026
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 10:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	31.8	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 6	R95865
PHYSICAL CHARACTERISTICS											
Moisture	81.1	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 7	R95975
3050 EXTRACTABLE METALS											
Arsenic	42	mg/kg	D	2		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 44	23973
Cadmium	1.9	mg/kg		0.2		SW6020	03/31/14 14:57 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 41	23973
Copper	324	mg/kg		5		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 44	23973
Lead	49	mg/kg		5		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 44	23973
Zinc	293	mg/kg		5		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 44	23973
METAL, DRY WEIGHT											
Arsenic	222	mg/kg-dry	D	9		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 150	23973
Cadmium	9.9	mg/kg-dry		0.3		SW6020	03/31/14 14:57 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 150	23973
Copper	1720	mg/kg-dry		6		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 150	23973
Lead	259	mg/kg-dry		20		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 150	23973
Zinc	1550	mg/kg-dry		5		SW6010B	03/31/14 17:34 / sld	03/26/14 14:04	ICP2-HE_140331	B : 150	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC Sediment Sieve <0.065mm
Lab ID: H14030285-027
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 11:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	2.9	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 7	R95865
PHYSICAL CHARACTERISTICS											
Moisture	61.4	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 9	R95975
3050 EXTRACTABLE METALS											
Arsenic	33	mg/kg	D	2		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 45	23973
Cadmium	1.6	mg/kg		0.2		SW6020	03/31/14 15:01 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 42	23973
Copper	297	mg/kg		5		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 45	23973
Lead	43	mg/kg		5		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 45	23973
Zinc	132	mg/kg		5		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 45	23973
METAL, DRY WEIGHT											
Arsenic	86	mg/kg-dry	D	5		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 151	23973
Cadmium	4.2	mg/kg-dry		0.2		SW6020	03/31/14 15:01 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 151	23973
Copper	771	mg/kg-dry		5		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 151	23973
Lead	111	mg/kg-dry		8		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 151	23973
Zinc	343	mg/kg-dry		5		SW6010B	03/31/14 17:38 / sld	03/26/14 14:04	ICP2-HE_140331	B : 151	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25 Sediment Sieve <0.065mm
Lab ID: H14030285-028
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 12:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	2.3	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 8	R95865
PHYSICAL CHARACTERISTICS											
Moisture	73.6	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 10	R95975
3050 EXTRACTABLE METALS											
Arsenic	47	mg/kg	D	2		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 46	23973
Cadmium	2.9	mg/kg		0.2		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 46	23973
Copper	131	mg/kg		5		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 46	23973
Lead	74	mg/kg		5		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 46	23973
Zinc	412	mg/kg		5		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 46	23973
METAL, DRY WEIGHT											
Arsenic	177	mg/kg-dry	D	7		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 152	23973
Cadmium	10.9	mg/kg-dry		0.2		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 152	23973
Copper	497	mg/kg-dry		5		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 152	23973
Lead	280	mg/kg-dry		10		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 152	23973
Zinc	1560	mg/kg-dry		5		SW6010B	03/31/14 17:42 / sld	03/26/14 14:04	ICP2-HE_140331	B : 152	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC Sediment Sieve <0.065mm
Lab ID: H14030285-029
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 13:30
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	2.0	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 9	R95865
PHYSICAL CHARACTERISTICS											
Moisture	68.6	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 11	R95975
3050 EXTRACTABLE METALS											
Arsenic	60	mg/kg	D	2		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 49	23973
Cadmium	2.7	mg/kg		0.2		SW6020	03/31/14 15:10 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 44	23973
Copper	106	mg/kg		5		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 49	23973
Lead	82	mg/kg		5		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 49	23973
Zinc	319	mg/kg		5		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 49	23973
METAL, DRY WEIGHT											
Arsenic	191	mg/kg-dry	D	5		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 155	23973
Cadmium	8.5	mg/kg-dry		0.2		SW6020	03/31/14 15:10 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 153	23973
Copper	337	mg/kg-dry		5		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 155	23973
Lead	262	mg/kg-dry		10		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 155	23973
Zinc	1020	mg/kg-dry		5		SW6010B	03/31/14 17:53 / sld	03/26/14 14:04	ICP2-HE_140331	B : 155	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Sediment Sieve <0.065mm
Lab ID: H14030285-030
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	3.6	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324E	: 10	R95865
PHYSICAL CHARACTERISTICS											
Moisture	66.5	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401B	: 12	R95975
3050 EXTRACTABLE METALS											
Arsenic	34	mg/kg	D	2		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 50	23973
Cadmium	2.2	mg/kg		0.2		SW6020	03/31/14 15:15 / dck	03/26/14 14:04	ICPMS204-B_140331B	: 45	23973
Copper	108	mg/kg		5		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 50	23973
Lead	53	mg/kg		5		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 50	23973
Zinc	174	mg/kg		5		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 50	23973
METAL, DRY WEIGHT											
Arsenic	100	mg/kg-dry	D	5		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 156	23973
Cadmium	6.6	mg/kg-dry		0.2		SW6020	03/31/14 15:15 / dck	03/26/14 14:04	ICPMS204-B_140331B	: 154	23973
Copper	323	mg/kg-dry		5		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 156	23973
Lead	157	mg/kg-dry		9		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 156	23973
Zinc	519	mg/kg-dry		5		SW6010B	03/31/14 17:56 / sld	03/26/14 14:04	ICP2-HE_140331B	: 156	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate Sediment Sieve <0.065mm
Lab ID: H14030285-031
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 15:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	3.8	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 11	R95865
PHYSICAL CHARACTERISTICS											
Moisture	66.0	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 13	R95975
3050 EXTRACTABLE METALS											
Arsenic	35	mg/kg	D	2		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 51	23973
Cadmium	2.3	mg/kg		0.2		SW6020	03/31/14 15:19 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 46	23973
Copper	122	mg/kg		5		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 51	23973
Lead	53	mg/kg		5		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 51	23973
Zinc	194	mg/kg		5		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 51	23973
METAL, DRY WEIGHT											
Arsenic	102	mg/kg-dry	D	5		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 157	23973
Cadmium	6.9	mg/kg-dry		0.2		SW6020	03/31/14 15:19 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 155	23973
Copper	358	mg/kg-dry		5		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 157	23973
Lead	156	mg/kg-dry		9		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 157	23973
Zinc	570	mg/kg-dry		5		SW6010B	03/31/14 18:00 / sld	03/26/14 14:04	ICP2-HE_140331	B : 157	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LC-7.5 Sediment Sieve <0.065mm
Lab ID: H14030285-032
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 16:00
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	11.6	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 12	R95865
PHYSICAL CHARACTERISTICS											
Moisture	59.5	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 14	R95975
3050 EXTRACTABLE METALS											
Arsenic	25	mg/kg	D	2		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 52	23973
Cadmium	1.4	mg/kg		0.2		SW6020	03/31/14 15:23 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 47	23973
Copper	113	mg/kg		5		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 52	23973
Lead	68	mg/kg		5		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 52	23973
Zinc	188	mg/kg		5		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 52	23973
METAL, DRY WEIGHT											
Arsenic	62	mg/kg-dry	D	4		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 158	23973
Cadmium	3.4	mg/kg-dry		0.2		SW6020	03/31/14 15:23 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 156	23973
Copper	279	mg/kg-dry		5		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 158	23973
Lead	167	mg/kg-dry		8		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 158	23973
Zinc	464	mg/kg-dry		5		SW6010B	03/31/14 18:04 / sld	03/26/14 14:04	ICP2-HE_140331	B : 158	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: RTC-1.5 Sediment Sieve <0.065mm
Lab ID: H14030285-033
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 03/19/14 16:45
DateReceived: 03/20/14
Report Date: 04/17/14
Revised Date: 05/16/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	0.6	wt% retained		0.1		ASA15-2	03/24/14 12:14 / raw		MISC SOILS_140324	E : 13	R95865
PHYSICAL CHARACTERISTICS											
Moisture	62.6	wt%		0.2		D2974	04/02/14 13:53 / raw		EXTRACT OV 2_140401	B : 15	R95975
3050 EXTRACTABLE METALS											
Arsenic	29	mg/kg	D	2		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 53	23973
Cadmium	0.8	mg/kg		0.2		SW6020	03/31/14 15:28 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 48	23973
Copper	34	mg/kg		5		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 53	23973
Lead	101	mg/kg		5		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 53	23973
Zinc	72	mg/kg		5		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 53	23973
METAL, DRY WEIGHT											
Arsenic	76	mg/kg-dry	D	5		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 159	23973
Cadmium	2.1	mg/kg-dry		0.2		SW6020	03/31/14 15:28 / dck	03/26/14 14:04	ICPMS204-B_140331	B : 157	23973
Copper	92	mg/kg-dry		5		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 159	23973
Lead	271	mg/kg-dry		8		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 159	23973
Zinc	191	mg/kg-dry		5		SW6010B	03/31/14 18:07 / sld	03/26/14 14:04	ICP2-HE_140331	B : 159	23973

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140325wa

Date: *17-Apr-14*

Run ID :Run Order: **HGCV202-H_140325A: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **03/25/14 14:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00019	0.00010	0.0002		97	90	110				

Associated samples: **H14030285-016B**

Run ID :Run Order: **HGCV202-H_140325A: 2** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **03/25/14 15:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002		101	95	105				

Associated samples: **H14030285-016B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140327wa

Date: *17-Apr-14*

Run ID :Run Order: **HGCV202-H_140327A: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **03/27/14 11:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00019	0.00010	0.0002		96	90	110				

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C**

Run ID :Run Order: **HGCV202-H_140327A: 2** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **03/27/14 11:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002		102	95	105				

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23913

Date: *17-Apr-14*

Run ID :Run Order: **FIA202-HE_140321A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-23913** Method: **E365.1**
Analysis Date: **03/21/14 13:03** Units: **mg/L** **Prep Info:** Prep Date: **3/20/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.205	0.010	0.2		102	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Run ID :Run Order: **FIA202-HE_140321A: 12** SampType: **Method Blank** Lab ID: **MB-23913** Method: **E365.1**
Analysis Date: **03/21/14 13:04** Units: **mg/L** **Prep Info:** Prep Date: **3/20/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Run ID :Run Order: **FIA202-HE_140321A: 20** SampType: **Sample Matrix Spike** Lab ID: **H14030259-001AMS** Method: **E365.1**
Analysis Date: **03/21/14 13:12** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.161	0.010	0.1	0.06394	97	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Run ID :Run Order: **FIA202-HE_140321A: 21** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030259-001AMSD** Method: **E365.1**
Analysis Date: **03/21/14 13:13** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.166	0.010	0.1	0.06394	102	90	110	0.1612	2.6	20	

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Run ID :Run Order: **FIA202-HE_140321A: 28** SampType: **Sample Matrix Spike** Lab ID: **H14030278-002CMS** Method: **E365.1**
Analysis Date: **03/21/14 13:20** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.107	0.010	0.1	0.00523	102	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23913

Date: *17-Apr-14*

Run ID :Run Order: **FIA202-HE_140321A: 29** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030278-002CMSD** Method: **E365.1**

Analysis Date: **03/21/14 13:21** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.107	0.010	0.1	0.00523	**102**	90	110	0.1071	**0.3**	20	

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23919

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140324B: 28** SampType: **Method Blank** Lab ID: **MB-23919** Method: **E200.7**
Analysis Date: **03/24/14 14:21** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.04	0.03									
Magnesium	ND	0.01									

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 29** SampType: **Laboratory Control Sample** Lab ID: **LCS-23919** Method: **E200.7**
Analysis Date: **03/24/14 14:25** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.2	1.0	25	0.04273	97	85	115				
Magnesium	23.8	1.0	25		95	85	115				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 33** SampType: **Serial Dilution** Lab ID: **H14030285-001CDIL** Method: **E200.7**
Analysis Date: **03/24/14 14:40** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	42.4	1.0				0	0	41.94	1.0	10	
Magnesium	10.9	1.0				0	0	10.58	3.1	10	

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 34** SampType: **Sample Matrix Spike** Lab ID: **H14030285-001CMS3** Method: **E200.7**
Analysis Date: **03/24/14 14:43** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	68.0	1.0	25	41.94	104	70	130				
Magnesium	35.6	1.0	25	10.58	100	70	130				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 35** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-001CMSD3** Method: **E200.7**
Analysis Date: **03/24/14 14:47** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	65.4	1.0	25	41.94	94	70	130	68	4.0	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23919

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140324B: 35** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-001CMSD3** Method: **E200.7**
Analysis Date: **03/24/14 14:47** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	34.2	1.0	25	10.58	95	70	130	35.62	4.1	20	

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 48** SampType: **Serial Dilution** Lab ID: **H14030285-011CDIL** Method: **E200.7**
Analysis Date: **03/24/14 15:36** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	57.3	1.0				0	0	56.54	1.4	10	
Magnesium	13.1	1.0				0	0	12.64	3.7	10	

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 49** SampType: **Sample Matrix Spike** Lab ID: **H14030285-011CMS3** Method: **E200.7**
Analysis Date: **03/24/14 15:39** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	81.9	1.0	25	56.54	102	70	130				
Magnesium	37.4	1.0	25	12.64	99	70	130				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 50** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-011CMSD3** Method: **E200.7**
Analysis Date: **03/24/14 15:43** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	81.4	1.0	25	56.54	99	70	130	81.93	0.6	20	
Magnesium	37.1	1.0	25	12.64	98	70	130	37.44	1.0	20	

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23919

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140324A: 34** SampType: **Method Blank** Lab ID: **MB-23919** Method: **E200.8**
Analysis Date: **03/24/14 13:49** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	7E-05	6E-05									
Cadmium	ND	3E-05									
Copper	ND	0.0003									
Lead	ND	3E-05									
Zinc	0.005	0.001									

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 35** SampType: **Laboratory Control Sample** Lab ID: **LCS-23919** Method: **E200.8**
Analysis Date: **03/24/14 13:53** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.510	0.0010	0.5	0.0000727	102	85	115				
Cadmium	0.214	0.0010	0.25		86	85	115				
Copper	0.436	0.0050	0.5		87	85	115				
Lead	0.466	0.0010	0.5		93	85	115				
Zinc	0.508	0.010	0.5	0.005476	100	85	115				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 39** SampType: **Sample Matrix Spike** Lab ID: **H14030285-001CMS3** Method: **E200.8**
Analysis Date: **03/24/14 14:10** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.518	0.0010	0.5	0.01222	101	70	130				
Cadmium	0.209	0.0010	0.25	0.0002394	83	70	130				
Copper	0.460	0.0050	0.5	0.03807	84	70	130				
Lead	0.467	0.0010	0.5	0.007889	92	70	130				
Zinc	0.536	0.010	0.5	0.05988	95	70	130				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23919

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140324A: 40** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-001CMSD3** Method: **E200.8**
Analysis Date: **03/24/14 14:14** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.518	0.0010	0.5	0.01222	101	70	130	0.518	0.0	20	
Cadmium	0.213	0.0010	0.25	0.0002394	85	70	130	0.2086	2.1	20	
Copper	0.460	0.0050	0.5	0.03807	84	70	130	0.4597	0.1	20	
Lead	0.474	0.0010	0.5	0.007889	93	70	130	0.4666	1.6	20	
Zinc	0.537	0.010	0.5	0.05988	95	70	130	0.5355	0.3	20	

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 72** SampType: **Sample Matrix Spike** Lab ID: **H14030285-011CMS3** Method: **E200.8**
Analysis Date: **03/24/14 16:33** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.513	0.0010	0.5	0.0162	99	70	130				
Cadmium	0.209	0.0010	0.25	0.0001928	83	70	130				
Copper	0.437	0.0050	0.5	0.02232	83	70	130				
Lead	0.476	0.0010	0.5	0.005562	94	70	130				
Zinc	0.511	0.010	0.5	0.04113	94	70	130				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 73** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-011CMSD3** Method: **E200.8**
Analysis Date: **03/24/14 16:37** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.0010	0.5	0.0162	100	70	130	0.5128	0.5	20	
Cadmium	0.210	0.0010	0.25	0.0001928	84	70	130	0.2089	0.6	20	
Copper	0.436	0.0050	0.5	0.02232	83	70	130	0.4372	0.3	20	
Lead	0.470	0.0010	0.5	0.005562	93	70	130	0.4759	1.2	20	
Zinc	0.513	0.010	0.5	0.04113	94	70	130	0.5107	0.5	20	

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23924

Date: *17-Apr-14*

Run ID :Run Order: **FIA202-HE_140321A: 41** SampType: **Laboratory Control Sample** Lab ID: **LCS-23924** Method: **E365.1**
Analysis Date: **03/21/14 13:34** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.207	0.010	0.2		104	90	110				

Associated samples: **H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA202-HE_140321A: 42** SampType: **Method Blank** Lab ID: **MB-23924** Method: **E365.1**
Analysis Date: **03/21/14 13:35** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA202-HE_140321A: 44** SampType: **Sample Matrix Spike** Lab ID: **H14030285-006DMS** Method: **E365.1**
Analysis Date: **03/21/14 13:37** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.179	0.010	0.1	0.09122	88	90	110				S

Associated samples: **H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA202-HE_140321A: 45** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-006DMSD** Method: **E365.1**
Analysis Date: **03/21/14 13:38** Units: **mg/L** **Prep Info:** Prep Date: **3/21/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.183	0.010	0.1	0.09122	91	90	110	0.1788	2.1	20	

Associated samples: **H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23935

Date: *17-Apr-14*

Run ID :Run Order: **HGCV202-H_140325A: 4** SampType: **Method Blank** Lab ID: **MB-23935** Method: **E245.1**
Analysis Date: **03/25/14 15:11** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	3E-06									

Associated samples: **H14030285-016B**

Run ID :Run Order: **HGCV202-H_140325A: 6** SampType: **Laboratory Control Sample** Lab ID: **LCS-23935** Method: **E245.1**
Analysis Date: **03/25/14 15:20** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015		97	90	110				

Associated samples: **H14030285-016B**

Run ID :Run Order: **HGCV202-H_140325A: 13** SampType: **Sample Matrix Spike** Lab ID: **H14030278-004EMS** Method: **E245.1**
Analysis Date: **03/25/14 15:49** Units: **mg/L** **Prep Info:** Prep Date: **3/25/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015		105	70	130				

Associated samples: **H14030285-016B**

Run ID :Run Order: **HGCV202-H_140325A: 14** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030278-004EMSD** Method: **E245.1**
Analysis Date: **03/25/14 15:53** Units: **mg/L** **Prep Info:** Prep Date: **3/25/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00015	0.00010	0.00015		101	70	130	0.0001573	4.1	20	

Associated samples: **H14030285-016B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23939

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140327B: 26** SampType: **Sample Matrix Spike** Lab ID: **H14030278-004Ams** Method: **A4500 N-C**
Analysis Date: **03/27/14 14:29** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.03	0.10	1		103	90	110				

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **FIA203-HE_140327B: 27** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030278-004Amsd** Method: **A4500 N-C**
Analysis Date: **03/27/14 14:30** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.04	0.10	1		104	90	110	1.029	0.9	20	

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **FIA203-HE_140327B: 39** SampType: **Laboratory Control Sample** Lab ID: **LCS-23939** Method: **A4500 N-C**
Analysis Date: **03/27/14 14:45** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	18.6	0.30	18.7		99	90	110				

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **FIA203-HE_140327B: 40** SampType: **Method Blank** Lab ID: **MB-23939** Method: **A4500 N-C**
Analysis Date: **03/27/14 14:46** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **FIA203-HE_140327B: 42** SampType: **Sample Matrix Spike** Lab ID: **H14030285-009Ams** Method: **A4500 N-C**
Analysis Date: **03/27/14 14:48** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.81	0.10	1	0.9219	88	90	110				S

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23939

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140327B: 43** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-009Amsd** Method: **A4500 N-C**

Analysis Date: **03/27/14 14:50** Units: **mg/L** **Prep Info:** Prep Date: **3/24/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.83	0.10	1	0.9219	**91**	90	110	1.806	**1.3**	20	

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23953

Date: *17-Apr-14*

Run ID :Run Order: **HGCV202-H_140327A: 4** SampType: **Method Blank** Lab ID: **MB-23953** Method: **E245.1**
Analysis Date: **03/27/14 12:04** Units: **mg/L** **Prep Info:** Prep Date: **3/25/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	3E-06									

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C**

Run ID :Run Order: **HGCV202-H_140327A: 5** SampType: **Laboratory Control Sample** Lab ID: **LCS-23953** Method: **E245.1**
Analysis Date: **03/27/14 12:08** Units: **mg/L** **Prep Info:** Prep Date: **3/25/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015		95	90	110				

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C**

Run ID :Run Order: **HGCV202-H_140327A: 8** SampType: **Sample Matrix Spike** Lab ID: **H14030299-025BMS** Method: **E245.1**
Analysis Date: **03/27/14 12:20** Units: **mg/L** **Prep Info:** Prep Date: **3/25/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000867	101	70	130				

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C**

Run ID :Run Order: **HGCV202-H_140327A: 9** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030299-025BMSD** Method: **E245.1**
Analysis Date: **03/27/14 12:25** Units: **mg/L** **Prep Info:** Prep Date: **3/25/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000867	101	70	130	0.0001604	0.4	20	

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23973

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140331B: 30** SampType: **Method Blank** Lab ID: **MB-23973** Method: **SW6010B**
Analysis Date: **03/31/14 16:43** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.4									
Cadmium	ND	0.01									
Copper	ND	0.2									
Lead	ND	0.6									
Zinc	0.3	0.09									

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140331B: 31** SampType: **Laboratory Fortified Blank** Lab ID: **LFB-23973** Method: **SW6010B**
Analysis Date: **03/31/14 16:47** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	47.2	1.0	50		94	80	120				
Cadmium	22.6	1.0	25		90	80	120				
Copper	47.5	1.0	50		95	80	120				
Lead	45.7	1.0	50		91	80	120				
Zinc	47.3	1.0	50	0.2515	94	80	120				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140331B: 32** SampType: **Laboratory Control Sample** Lab ID: **LCS-23973** Method: **SW6010B**
Analysis Date: **03/31/14 16:51** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	257	1.8	343		75	72.3	106.4				
Cadmium	107	1.0	137		78	73	105.1				
Copper	234	1.1	280		83	77.5	109.6				
Lead	155	3.2	187		83	75.9	108.6				
Zinc	172	1.0	213	0.2515	81	74.2	109.9				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23973

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140331B: 38** SampType: **Sample Matrix Spike** Lab ID: **H14030285-021AMS** Method: **SW6010B**
Analysis Date: **03/31/14 17:13** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	61.1	1.8	49.5	15.22	93	75	125				
Cadmium	23.0	1.0	24.75	0.9675	89	75	125				
Copper	209	1.1	49.5	159.1	101	75	125				
Lead	75.5	3.2	49.5	30.22	91	75	125				
Zinc	291	1.0	49.5	254.4		75	125				A

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140331B: 39** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-021AMSD** Method: **SW6010B**
Analysis Date: **03/31/14 17:16** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	63.6	1.8	50	15.22	97	75	125	61.11	4.0	20	
Cadmium	23.3	1.0	25	0.9675	89	75	125	23.03	1.3	20	
Copper	212	1.1	50	159.1	106	75	125	209.2	1.3	20	
Lead	77.1	3.2	50	30.22	94	75	125	75.45	2.2	20	
Zinc	294	1.0	50	254.4		75	125	291	1.0	20	A

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140331B: 144** SampType: **Sample Matrix Spike** Lab ID: **H14030285-021BMS** Method: **SW6010B**
Analysis Date: **03/31/14 17:13** Units: **mg/kg-dry** **Prep Info:** Prep Date: **3/26/2014** Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	191	5.6	154.7	47.56	93	75	125				
Cadmium	72.0	1.0	77.36	3.024	89	75	125				
Copper	654	3.4	154.7	497.4	101	75	125				
Lead	236	9.8	154.7	94.44	91	75	125				
Zinc	909	1.4	154.7	795		75	125				A

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23973

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140331B: 145** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-021BMSD** Method: **SW6010B**

Analysis Date: **03/31/14 17:16** Units: **mg/kg-dry** **Prep Info:** Prep Date: **3/26/2014** Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	199	5.6	156.3	47.56	**97**	75	125	191	**4.0**	20	
Cadmium	72.9	1.0	78.13	3.024	**89**	75	125	71.98	**1.3**	20	
Copper	662	3.4	156.3	497.4	**106**	75	125	653.8	**1.3**	20	
Lead	241	9.9	156.3	94.44	**94**	75	125	235.8	**2.2**	20	
Zinc	918	1.5	156.3	795		75	125	909.4	**1.0**	20	A

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140401B: 28** SampType: **Method Blank** Lab ID: **MB-23973** Method: **SW6010B**

Analysis Date: **04/01/14 18:51** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.4									
Cadmium	0.01	0.01									
Copper	ND	0.2									
Lead	ND	0.6									
Zinc	0.3	0.09									

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23973

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140331B: 25** SampType: **Method Blank** Lab ID: **MB-23973** Method: **SW6020**
Analysis Date: **03/31/14 13:47** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.1									
Cadmium	0.08	0.06									

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 26** SampType: **Laboratory Control Sample** Lab ID: **LCS-23973** Method: **SW6020**
Analysis Date: **03/31/14 13:51** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	318	1.0	343		93	72.3	106.4				
Cadmium	126	1.0	137	0.0758	92	73	105.1				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 27** SampType: **Laboratory Fortified Blank** Lab ID: **LFB-23973** Method: **SW6020**
Analysis Date: **03/31/14 13:55** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	53.8	1.0	50		108	80	120				
Cadmium	27.2	1.0	25	0.0758	109	80	120				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 31** SampType: **Sample Matrix Spike** Lab ID: **H14030285-021AMS** Method: **SW6020**
Analysis Date: **03/31/14 14:13** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	71.2	1.0	49.5	17.78	108	75	125				
Cadmium	26.9	1.0	24.75	1.319	104	75	125				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 23973

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140331B: 32** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-021AMSD** Method: **SW6020**
Analysis Date: **03/31/14 14:17** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	73.3	1.0	50	17.78	111	75	125	71.25	2.9	20	
Cadmium	27.1	1.0	25	1.319	103	75	125	26.94	0.6	20	

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 136** SampType: **Laboratory Fortified Blank** Lab ID: **LFB-23973** Method: **SW6020**
Analysis Date: **03/31/14 13:55** Units: **mg/kg** **Prep Info:** Prep Date: **3/26/2014** Prep Method: **SW3050 B**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	53.8	1.0	50		108	80	120				
Cadmium	27.2	1.0	25	0.0758	109	80	120				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 140** SampType: **Sample Matrix Spike** Lab ID: **H14030285-021BMS** Method: **SW6020**
Analysis Date: **03/31/14 14:13** Units: **mg/kg-dry** **Prep Info:** Prep Date: **3/26/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	186	1.0	128.9	55.57	101	75	125				
Cadmium	70.2	1.0	64.46	4.122	102	75	125				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 141** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-021BMSD** Method: **SW6020**
Analysis Date: **03/31/14 14:17** Units: **mg/kg-dry** **Prep Info:** Prep Date: **3/26/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	191	1.0	130.2	55.57	104	75	125	185.6	2.9	20	
Cadmium	70.6	1.0	65.11	4.122	102	75	125	70.16	0.6	20	

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24004

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140328A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-24004** Method: **A4500 N-C**
Analysis Date: **03/28/14 13:07** Units: **mg/L** **Prep Info:** Prep Date: **3/28/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	17.0	0.30	18.7		91	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A**

Run ID :Run Order: **FIA203-HE_140328A: 12** SampType: **Method Blank** Lab ID: **MB-24004** Method: **A4500 N-C**
Analysis Date: **03/28/14 13:09** Units: **mg/L** **Prep Info:** Prep Date: **3/28/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A**

Run ID :Run Order: **FIA203-HE_140328A: 14** SampType: **Sample Matrix Spike** Lab ID: **H14030285-001AMS** Method: **A4500 N-C**
Analysis Date: **03/28/14 13:11** Units: **mg/L** **Prep Info:** Prep Date: **3/28/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.65	0.10	1	0.6969	96	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A**

Run ID :Run Order: **FIA203-HE_140328A: 15** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-001AMSD** Method: **A4500 N-C**
Analysis Date: **03/28/14 13:12** Units: **mg/L** **Prep Info:** Prep Date: **3/28/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.77	0.10	1	0.6969	107	90	110	1.653	6.7	20	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_40890

Date: *17-Apr-14*

Run ID :Run Order: **SUB-C184755: 14** SampType: **Method Blank** Lab ID: **MB-40890** Method: **A5310 C**
Analysis Date: **03/24/14 16:04** Units: **mg/L** **Prep Info:** Prep Date: **3/19/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	0.1	0.07									

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Run ID :Run Order: **SUB-C184755: 15** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-40890** Method: **A5310 C**
Analysis Date: **03/24/14 16:24** Units: **mg/L** **Prep Info:** Prep Date: **3/19/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.2	0.50	10		102	90	110				

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Run ID :Run Order: **SUB-C184755: 21** SampType: **Sample Matrix Spike** Lab ID: **C14030518-002CMS** Method: **A5310 C**
Analysis Date: **03/24/14 18:25** Units: **mg/L** **Prep Info:** Prep Date: **3/19/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.17	0.50	5	2.039	103	85	115				

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Run ID :Run Order: **SUB-C184755: 22** SampType: **Sample Matrix Spike Duplicate** Lab ID: **C14030518-002CMSD** Method: **A5310 C**
Analysis Date: **03/24/14 18:36** Units: **mg/L** **Prep Info:** Prep Date: **3/19/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.16	0.50	5	2.039	102	85	115	7.172	0.2	10	

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Run ID :Run Order: **SUB-C184755: 23** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-40890** Method: **A5310 C**
Analysis Date: **03/24/14 18:48** Units: **mg/L** **Prep Info:** Prep Date: **3/19/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	10		101	90	110				

Associated samples: **H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_40890

Date: *17-Apr-14*

Run ID :Run Order: **SUB-C184755: 34** SampType: **Sample Matrix Spike** Lab ID: **H14030285-006E** Method: **A5310 C**

Analysis Date: **03/24/14 21:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.10	0.50	5	3.068	101	85	115				

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Run ID :Run Order: **SUB-C184755: 35** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-006E** Method: **A5310 C**

Analysis Date: **03/24/14 21:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.14	0.50	5	3.068	101	85	115	8.098	0.5	10	

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Run ID :Run Order: **SUB-C184755: 36** SampType: **Laboratory Control Sample** Lab ID: **LCS-40890** Method: **A5310 C**

Analysis Date: **03/24/14 21:50** Units: **mg/L** **Prep Info:** Prep Date: **3/19/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	10	0.1397	100	90	110				

Associated samples: **H14030285-001E; H14030285-002E; H14030285-003E; H14030285-004E; H14030285-005E; H14030285-006E; H14030285-007E; H14030285-008E; H14030285-009E; H14030285-010E; H14030285-011E; H14030285-012E; H14030285-013E; H14030285-014E; H14030285-015E**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95705

Date: *17-Apr-14*

Run ID :Run Order: **FIA202-HE_140321A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**

Analysis Date: **03/21/14 13:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.254	0.010	0.25		101	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA202-HE_140321A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E365.1**

Analysis Date: **03/21/14 13:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.000390	0.010				0	0				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA202-HE_140321A: 26** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**

Analysis Date: **03/21/14 13:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0957	0.010	0.1		96	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D**

Run ID :Run Order: **FIA202-HE_140321A: 39** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**

Analysis Date: **03/21/14 13:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0958	0.010	0.1		96	90	110				

Associated samples: **H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D; H14030285-013D; H14030285-014D; H14030285-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95737

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140324B: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **03/24/14 11:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.977	0.010	1		98	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **03/24/14 11:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.952	0.011	1		95	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **03/24/14 11:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	-0.0231	0.010				0	0				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **03/24/14 11:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	ND	0.001									

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 27** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **03/24/14 12:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.503	0.010	0.5		101	90	110				

Associated samples: **H14030285-001D; H14030285-002D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95737

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140324B: 29** SampType: **Sample Matrix Spike** Lab ID: **H14030278-003CMS** Method: **E353.2**
Analysis Date: **03/24/14 12:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.944	0.011	1	0.03533	91	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030278-003CMSD** Method: **E353.2**
Analysis Date: **03/24/14 12:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.966	0.011	1	0.03533	93	90	110	0.9442	2.2	20	

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 37** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **03/24/14 12:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.498	0.010	0.5		100	90	110				

Associated samples: **H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 39** SampType: **Sample Matrix Spike** Lab ID: **H14030285-003DMS** Method: **E353.2**
Analysis Date: **03/24/14 12:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.09	0.011	1	0.1856	90	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140324B: 40** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-003DMSD** Method: **E353.2**
Analysis Date: **03/24/14 12:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.11	0.011	1	0.1856	92	90	110	1.09	1.8	20	

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95743

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140324C: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **03/24/14 13:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.926	0.010	1		93	90	110				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140324C: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **03/24/14 13:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.911	0.011	1		91	90	110				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140324C: 10** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **03/24/14 13:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.511	0.010	0.5		102	90	110				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140324C: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **03/24/14 13:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	-0.0145	0.010				0	0				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140324C: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **03/24/14 13:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	ND	0.001									

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95743

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140324C: 15** SampType: **Sample Matrix Spike** Lab ID: **H14030285-013DMS** Method: **E353.2**

Analysis Date: **03/24/14 13:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.870	0.011	1		87	90	110				S

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140324C: 16** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-013DMSD** Method: **E353.2**

Analysis Date: **03/24/14 13:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.886	0.011	1		89	90	110	0.8703	1.8	20	S

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95753

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140324B: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **03/24/14 12:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	41.4	1.0	40		103	95	105				
Magnesium	41.2	1.0	40		103	95	105				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **03/24/14 13:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.2	1.0	25		101	95	105				
Magnesium	24.9	1.0	25		100	95	105				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **03/24/14 13:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	467	1.0	500		93	80	120				
Magnesium	497	1.0	500		99	80	120				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **03/24/14 13:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	472	1.0	500		94	80	120				
Magnesium	499	1.0	500		100	80	120				

Associated samples: **H14030285-001C; H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C; H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Run ID :Run Order: **ICP2-HE_140324B: 19** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **03/24/14 13:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.4	1.0	25		102	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95753

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140324B: 19** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **03/24/14 13:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	24.0	1.0	25		96	90	110				

Associated samples: **H14030285-001C**

Run ID :Run Order: **ICP2-HE_140324B: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **03/24/14 14:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.1	1.0	25		100	90	110				
Magnesium	24.4	1.0	25		98	90	110				

Associated samples: **H14030285-002C; H14030285-003C; H14030285-004C; H14030285-005C; H14030285-006C; H14030285-007C; H14030285-008C**

Run ID :Run Order: **ICP2-HE_140324B: 43** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **03/24/14 15:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.8	1.0	25		95	90	110				
Magnesium	23.2	1.0	25		93	90	110				

Associated samples: **H14030285-009C; H14030285-010C; H14030285-011C; H14030285-012C; H14030285-013C; H14030285-014C; H14030285-015C**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95757

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140324A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **03/24/14 12:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0609	0.0050	0.06		102	90	110				
Cadmium	0.0318	0.0010	0.03		106	90	110				
Copper	0.0638	0.010	0.06		106	90	110				
Lead	0.0607	0.010	0.06		101	90	110				
Zinc	0.0626	0.010	0.06		104	90	110				

Associated samples: **H14030285-001B; H14030285-001C; H14030285-002B; H14030285-002C; H14030285-003B; H14030285-003C; H14030285-004B; H14030285-004C; H14030285-005B; H14030285-005C; H14030285-006B; H14030285-006C; H14030285-007B; H14030285-007C; H14030285-008B; H14030285-008C; H14030285-009B; H14030285-009C; H14030285-010B; H14030285-010C; H14030285-011B; H14030285-011C; H14030285-012B; H14030285-012C; H14030285-013B; H14030285-013C; H14030285-014B; H14030285-014C; H14030285-015B; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **03/24/14 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000194	0.0050									
Cadmium	0.000688	0.0010									
Copper	0.000429	0.010									
Lead	0.000289	0.010									
Zinc	0.00163	0.010									

Associated samples: **H14030285-001B; H14030285-001C; H14030285-002B; H14030285-002C; H14030285-003B; H14030285-003C; H14030285-004B; H14030285-004C; H14030285-005B; H14030285-005C; H14030285-006B; H14030285-006C; H14030285-007B; H14030285-007C; H14030285-008B; H14030285-008C; H14030285-009B; H14030285-009C; H14030285-010B; H14030285-010C; H14030285-011B; H14030285-011C; H14030285-012B; H14030285-012C; H14030285-013B; H14030285-013C; H14030285-014B; H14030285-014C; H14030285-015B; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/24/14 12:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0105	0.0050	0.01		105	70	130				
Cadmium	0.0100	0.0010	0.01		100	70	130				
Copper	0.0208	0.010	0.02		104	70	130				
Lead	0.000304	0.010				0	0				
Zinc	0.0118	0.010	0.01		118	70	130				

Associated samples: **H14030285-001B; H14030285-001C; H14030285-002B; H14030285-002C; H14030285-003B; H14030285-003C; H14030285-004B; H14030285-004C; H14030285-005B; H14030285-005C; H14030285-006B; H14030285-006C; H14030285-007B; H14030285-007C; H14030285-008B; H14030285-008C; H14030285-009B; H14030285-009C; H14030285-010B; H14030285-010C; H14030285-011B; H14030285-011C; H14030285-012B; H14030285-012C; H14030285-013B; H14030285-013C; H14030285-014B; H14030285-014C; H14030285-015B; H14030285-015C**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95757

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140324A: 17** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**

Analysis Date: **03/24/14 12:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5E-05	3E-05									
Cadmium	ND	6E-06									
Copper	ND	3E-05									
Lead	1E-05	8E-06									
Zinc	ND	0.0003									

Associated samples: **H14030285-001B; H14030285-002B; H14030285-003B; H14030285-004B; H14030285-005B; H14030285-006B; H14030285-007B; H14030285-008B; H14030285-009B; H14030285-010B; H14030285-011B; H14030285-012B; H14030285-013B; H14030285-014B; H14030285-015B**

Run ID :Run Order: **ICPMS204-B_140324A: 18** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**

Analysis Date: **03/24/14 12:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0508	0.0050	0.05	0.0000454	101	85	115				
Cadmium	0.0518	0.0010	0.05		104	85	115				
Copper	0.0531	0.010	0.05		106	85	115				
Lead	0.0537	0.010	0.05	0.0000119	107	85	115				
Zinc	0.0543	0.010	0.05		109	85	115				

Associated samples: **H14030285-001B; H14030285-002B; H14030285-003B; H14030285-004B; H14030285-005B; H14030285-006B; H14030285-007B; H14030285-008B; H14030285-009B; H14030285-010B; H14030285-011B; H14030285-012B; H14030285-013B; H14030285-014B; H14030285-015B**

Run ID :Run Order: **ICPMS204-B_140324A: 29** SampType: **Sample Matrix Spike** Lab ID: **H14030285-001BMS** Method: **E200.8**

Analysis Date: **03/24/14 13:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0616	0.0010	0.05	0.007396	108	70	130				
Cadmium	0.0497	0.0010	0.05	0.000028	99	70	130				
Copper	0.0586	0.0050	0.05	0.006834	104	70	130				
Lead	0.0542	0.0010	0.05	0.000222	108	70	130				
Zinc	0.0682	0.010	0.05	0.01476	107	70	130				

Associated samples: **H14030285-001B; H14030285-002B; H14030285-003B; H14030285-004B; H14030285-005B; H14030285-006B; H14030285-007B; H14030285-008B; H14030285-009B; H14030285-010B; H14030285-011B; H14030285-012B; H14030285-013B; H14030285-014B; H14030285-015B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95757

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140324A: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-001BMSD** Method: **E200.8**

Analysis Date: **03/24/14 13:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0609	0.0010	0.05	0.007396	107	70	130	0.06156	1.1	20	
Cadmium	0.0493	0.0010	0.05	0.000028	99	70	130	0.04974	0.9	20	
Copper	0.0585	0.0050	0.05	0.006834	103	70	130	0.05859	0.2	20	
Lead	0.0528	0.0010	0.05	0.000222	105	70	130	0.05422	2.7	20	
Zinc	0.0673	0.010	0.05	0.01476	105	70	130	0.06816	1.3	20	

Associated samples: **H14030285-001B; H14030285-002B; H14030285-003B; H14030285-004B; H14030285-005B; H14030285-006B; H14030285-007B; H14030285-008B; H14030285-009B; H14030285-010B; H14030285-011B; H14030285-012B; H14030285-013B; H14030285-014B; H14030285-015B**

Run ID :Run Order: **ICPMS204-B_140324A: 68** SampType: **Sample Matrix Spike** Lab ID: **H14030285-011BMS** Method: **E200.8**

Analysis Date: **03/24/14 16:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0670	0.0010	0.05	0.01361	107	70	130				
Cadmium	0.0495	0.0010	0.05	0.0000811	99	70	130				
Copper	0.0620	0.0050	0.05	0.01128	101	70	130				
Lead	0.0557	0.0010	0.05	0.0005442	110	70	130				
Zinc	0.0628	0.010	0.05	0.01239	101	70	130				

Associated samples: **H14030285-001B; H14030285-002B; H14030285-003B; H14030285-004B; H14030285-005B; H14030285-006B; H14030285-007B; H14030285-008B; H14030285-009B; H14030285-010B; H14030285-011B; H14030285-012B; H14030285-013B; H14030285-014B; H14030285-015B**

Run ID :Run Order: **ICPMS204-B_140324A: 69** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-011BMSD** Method: **E200.8**

Analysis Date: **03/24/14 16:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0662	0.0010	0.05	0.01361	105	70	130	0.06696	1.1	20	
Cadmium	0.0486	0.0010	0.05	0.0000811	97	70	130	0.0495	1.8	20	
Copper	0.0614	0.0050	0.05	0.01128	100	70	130	0.06195	0.8	20	
Lead	0.0539	0.0010	0.05	0.0005442	107	70	130	0.0557	3.2	20	
Zinc	0.0623	0.010	0.05	0.01239	100	70	130	0.06283	0.9	20	

Associated samples: **H14030285-001B; H14030285-002B; H14030285-003B; H14030285-004B; H14030285-005B; H14030285-006B; H14030285-007B; H14030285-008B; H14030285-009B; H14030285-010B; H14030285-011B; H14030285-012B; H14030285-013B; H14030285-014B; H14030285-015B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95757

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140324A: 100** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **03/24/14 20:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0609	0.0050	0.06		101	90	110				
Cadmium	0.0321	0.0010	0.03		107	90	110				
Copper	0.0624	0.010	0.06		104	90	110				
Lead	0.0631	0.010	0.06		105	90	110				
Zinc	0.0634	0.010	0.06		106	90	110				

Associated samples: **H14030285-001B; H14030285-001C; H14030285-002B; H14030285-002C; H14030285-003B; H14030285-003C; H14030285-004B; H14030285-004C; H14030285-005B; H14030285-005C; H14030285-006B; H14030285-006C; H14030285-007B; H14030285-007C; H14030285-008B; H14030285-008C; H14030285-009B; H14030285-009C; H14030285-010B; H14030285-010C; H14030285-011B; H14030285-011C; H14030285-012B; H14030285-012C; H14030285-013B; H14030285-013C; H14030285-014B; H14030285-014C; H14030285-015B; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 101** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **03/24/14 20:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000229	0.0050									
Cadmium	0.000743	0.0010									
Copper	0.000432	0.010									
Lead	0.000271	0.010									
Zinc	0.00158	0.010									

Associated samples: **H14030285-001B; H14030285-001C; H14030285-002B; H14030285-002C; H14030285-003B; H14030285-003C; H14030285-004B; H14030285-004C; H14030285-005B; H14030285-005C; H14030285-006B; H14030285-006C; H14030285-007B; H14030285-007C; H14030285-008B; H14030285-008C; H14030285-009B; H14030285-009C; H14030285-010B; H14030285-010C; H14030285-011B; H14030285-011C; H14030285-012B; H14030285-012C; H14030285-013B; H14030285-013C; H14030285-014B; H14030285-014C; H14030285-015B; H14030285-015C**

Run ID :Run Order: **ICPMS204-B_140324A: 102** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **03/24/14 20:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0108	0.0050	0.01		108	70	130				
Cadmium	0.0106	0.0010	0.01		106	70	130				
Copper	0.0209	0.010	0.02		104	70	130				
Lead	0.000274	0.010				0	0				
Zinc	0.0116	0.010	0.01		116	70	130				

Associated samples: **H14030285-001B; H14030285-001C; H14030285-002B; H14030285-002C; H14030285-003B; H14030285-003C; H14030285-004B; H14030285-004C; H14030285-005B; H14030285-005C; H14030285-006B; H14030285-006C; H14030285-007B; H14030285-007C; H14030285-008B; H14030285-008C; H14030285-009B; H14030285-009C; H14030285-010B; H14030285-010C; H14030285-011B; H14030285-011C; H14030285-012B; H14030285-012C; H14030285-013B; H14030285-013C; H14030285-014B; H14030285-014C; H14030285-015B; H14030285-015C**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95766

Date: *17-Apr-14*

Run ID :Run Order: **MAN-TECH_140324A: 5** SampType: **Method Blank** Lab ID: **MBLK** Method: **A2320 B**
Analysis Date: **03/24/14 13:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	2									

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 7** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **03/24/14 13:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	620	4.0	600		104	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 10** SampType: **Sample Duplicate** Lab ID: **H14030258-001ADUP** Method: **A2320 B**
Analysis Date: **03/24/14 13:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	450	4.0						441.8	1.0	10	
Bicarbonate as HCO3	540	4.0						539	1.0	10	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 13** SampType: **Sample Matrix Spike** Lab ID: **H14030258-002AMS** Method: **A2320 B**
Analysis Date: **03/24/14 13:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	960	4.0	600	413.3	92	80	120				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 29** SampType: **Sample Duplicate** Lab ID: **H14030285-002ADUP** Method: **A2320 B**
Analysis Date: **03/24/14 15:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	4.0								10	
Bicarbonate as HCO3	1.2	4.0						1.3		10	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95766

Date: *17-Apr-14*

Run ID :Run Order: **MAN-TECH_140324A: 41** SampType: **Method Blank** Lab ID: **MBLK** Method: **A2320 B**
Analysis Date: **03/24/14 16:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	4.0									

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 43** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **03/24/14 16:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	630	4.0	600		105	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 46** SampType: **Sample Duplicate** Lab ID: **H14030285-012ADUP** Method: **A2320 B**
Analysis Date: **03/24/14 16:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	120	4.0						114.9	0.3	10	
Bicarbonate as HCO3	140	4.0						140.2	0.3	10	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 49** SampType: **Sample Matrix Spike** Lab ID: **H14030285-013AMS** Method: **A2320 B**
Analysis Date: **03/24/14 16:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	570	4.0	600		96	80	120				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **MAN-TECH_140324A: 61** SampType: **Sample Duplicate** Lab ID: **H14030295-006ADUP** Method: **A2320 B**
Analysis Date: **03/24/14 18:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	300	4.0						303.3	0.5	10	
Bicarbonate as HCO3	370	4.0						370	0.2	10	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95784

Date: *17-Apr-14*

Run ID :Run Order: **IC102-H_140324A: 12** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**
Analysis Date: **03/24/14 10:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				
Sulfate	430	1.0	400		107	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 13** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**
Analysis Date: **03/24/14 10:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.05	0.008									
Sulfate	ND	0.08									

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 14** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**
Analysis Date: **03/24/14 10:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52	1.0	50	0.046	104	90	110				
Sulfate	210	1.0	200		105	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 15** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV032114-1** Method: **E300.0**
Analysis Date: **03/24/14 10:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				
Sulfate	430	1.0	400		107	90	110				

Associated samples: **H14030285-001A**

Run ID :Run Order: **IC102-H_140324A: 28** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV032114-2** Method: **E300.0**
Analysis Date: **03/24/14 13:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95784

Date: *17-Apr-14*

Run ID :Run Order: **IC102-H_140324A: 28** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV032114-2** Method: **E300.0**
Analysis Date: **03/24/14 13:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	430	1.0	400		108	90	110				

Associated samples: **H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A**

Run ID :Run Order: **IC102-H_140324A: 31** SampType: **Sample Matrix Spike** Lab ID: **H14030285-002AMS** Method: **E300.0**
Analysis Date: **03/24/14 13:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53	1.0	50	0.01	106	90	110				
Sulfate	210	1.0	200		107	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 32** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-002AMSD** Method: **E300.0**
Analysis Date: **03/24/14 13:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53	1.0	50	0.01	106	90	110	52.82	0.8	20	
Sulfate	210	1.0	200		107	90	110	213.8	0.0	20	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 42** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV032114-3** Method: **E300.0**
Analysis Date: **03/24/14 15:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		106	90	110				
Sulfate	430	1.0	400		108	90	110				

Associated samples: **H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 45** SampType: **Sample Matrix Spike** Lab ID: **H14030285-012AMS** Method: **E300.0**
Analysis Date: **03/24/14 15:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	59	1.0	50	7.105	104	90	110				
Sulfate	370	1.0	200	162.2	105	90	110				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95784

Date: *17-Apr-14*

Run ID :Run Order: **IC102-H_140324A: 45** SampType: **Sample Matrix Spike** Lab ID: **H14030285-012AMS** Method: **E300.0**

Analysis Date: **03/24/14 15:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **IC102-H_140324A: 46** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-012AMSD** Method: **E300.0**

Analysis Date: **03/24/14 16:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	60	1.0	50	7.105	**105**	90	110	59.03	**0.8**	20	
Sulfate	380	1.0	200	162.2	**107**	90	110	373	**0.9**	20	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95816

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140326B: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **03/26/14 14:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	15.2	0.50	15.2		100	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140326B: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **03/26/14 14:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.974	0.055	1		97	90	110				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140326B: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **03/26/14 14:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.492	0.050	0.5		99	90	110				

Associated samples: **H14030285-001D; H14030285-002D**

Run ID :Run Order: **FIA203-HE_140326B: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **03/26/14 14:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.00351	0.050				0	0				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140326B: 23** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **03/26/14 15:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.463	0.050	0.5		93	90	110				

Associated samples: **H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95816

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140326B: 26** SampType: **Sample Matrix Spike** Lab ID: **H14030285-003DMS** Method: **E350.1**

Analysis Date: **03/26/14 15:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.927	0.055	1	0.04512	88	80	120				

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140326B: 27** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-003DMSD** Method: **E350.1**

Analysis Date: **03/26/14 15:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.900	0.055	1	0.04512	86	80	120	0.9271	2.9	10	

Associated samples: **H14030285-001D; H14030285-002D; H14030285-003D; H14030285-004D; H14030285-005D; H14030285-006D; H14030285-007D; H14030285-008D; H14030285-009D; H14030285-010D; H14030285-011D; H14030285-012D**

Run ID :Run Order: **FIA203-HE_140326B: 37** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**

Analysis Date: **03/26/14 15:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.451	0.050	0.5		90	90	110				

Associated samples:

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95848

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140327B: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **03/27/14 14:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.0466	0.10				0	0				

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **FIA203-HE_140327B: 23** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **03/27/14 14:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.520	0.10	0.5		**104**	90	110				

Associated samples:

Run ID :Run Order: **FIA203-HE_140327B: 37** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **03/27/14 14:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.509	0.10	0.5		**102**	90	110				

Associated samples: **H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95869

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140328A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **03/28/14 13:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.470	0.10	0.5		94	90	110				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A**

Run ID :Run Order: **FIA203-HE_140328A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **03/28/14 13:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.0596	0.10				0	0				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95894

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140331A: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **03/31/14 09:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	15.7	0.50	15.2		103	90	110				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140331A: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **03/31/14 09:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.974	0.055	1		97	90	110				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140331A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **03/31/14 09:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.488	0.050	0.5		98	90	110				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140331A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **03/31/14 09:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	-0.000956	0.050				0	0				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Run ID :Run Order: **FIA203-HE_140331A: 12** SampType: **Sample Matrix Spike** Lab ID: **H14030285-013DMS** Method: **E350.1**
Analysis Date: **03/31/14 09:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.963	0.055	1		96	80	120				

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95894

Date: *17-Apr-14*

Run ID :Run Order: **FIA203-HE_140331A: 13** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030285-013DMSD** Method: **E350.1**

Analysis Date: **03/31/14 09:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.968	0.055	1		**97**	80	120	0.9635	**0.5**	10	

Associated samples: **H14030285-013D; H14030285-014D; H14030285-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95909

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140331B: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**

Analysis Date: **03/31/14 10:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.817	0.0085	0.8		102	90	110				
Cadmium	0.393	0.0010	0.4		98	90	110				
Copper	0.816	0.010	0.8		102	90	110				
Lead	0.799	0.010	0.8		100	90	110				
Zinc	0.808	0.010	0.8		101	90	110				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140331B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**

Analysis Date: **03/31/14 10:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	-0.00487	0.0085				0	0				
Cadmium	0.00106	0.0010				0	0				
Copper	0.000570	0.010				0	0				
Lead	-0.0120	0.010				0	0				
Zinc	-0.00207	0.010				0	0				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICP2-HE_140331B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**

Analysis Date: **03/31/14 10:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.01	0.0085	1		101	80	120				
Cadmium	0.930	0.0010	1		93	80	120				
Copper	0.540	0.010	0.5		108	80	120				
Lead	0.937	0.010	1		94	80	120				
Zinc	1.03	0.010	1		103	80	120				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-024A; H14030285-024B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-028A; H14030285-028B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95927

Date: *17-Apr-14*

Run ID :Run Order: **ICPMS204-B_140331B: 13** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **SW6020**

Analysis Date: **03/31/14 12:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0619	0.0010	0.06		103	90	110				
Cadmium	0.0326	0.0010	0.03		109	90	110				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Run ID :Run Order: **ICPMS204-B_140331B: 100** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **SW6020**

Analysis Date: **03/31/14 19:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0614	0.0010	0.06		102	90	110				
Cadmium	0.0329	0.0010	0.03		110	90	110				

Associated samples: **H14030285-021A; H14030285-021B; H14030285-022A; H14030285-022B; H14030285-023A; H14030285-023B; H14030285-025A; H14030285-025B; H14030285-026A; H14030285-026B; H14030285-027A; H14030285-027B; H14030285-029A; H14030285-029B; H14030285-030A; H14030285-030B; H14030285-031A; H14030285-031B; H14030285-032A; H14030285-032B; H14030285-033A; H14030285-033B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95949

Date: *17-Apr-14*

Run ID :Run Order: **IC102-H_140401A: 13** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**
Analysis Date: **04/01/14 10:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	400	1.0	400		99	90	110				

Associated samples: **H14030285-015A**

Run ID :Run Order: **IC102-H_140401A: 14** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**
Analysis Date: **04/01/14 10:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.08									

Associated samples: **H14030285-015A**

Run ID :Run Order: **IC102-H_140401A: 15** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**
Analysis Date: **04/01/14 11:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	210	1.0	200		104	90	110				

Associated samples: **H14030285-015A**

Run ID :Run Order: **IC102-H_140401A: 16** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E300.0**
Analysis Date: **04/01/14 11:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	410	1.0	400		102	90	110				

Associated samples: **H14030285-015A**

Run ID :Run Order: **IC102-H_140401A: 19** SampType: **Sample Matrix Spike** Lab ID: **H14030401-001AMS** Method: **E300.0**
Analysis Date: **04/01/14 11:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	290	1.0	200	85.79	104	90	110				

Associated samples: **H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95949

Date: *17-Apr-14*

Run ID :Run Order: **IC102-H_140401A: 20** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14030401-001AMSD** Method: **E300.0**

Analysis Date: **04/01/14 11:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	300	1.0	200	85.79	**106**	90	110	293.6	**1.4**	20	

Associated samples: **H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95950

Date: *17-Apr-14*

Run ID :Run Order: **ICP2-HE_140401B: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **04/01/14 09:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.765	0.010	0.8		96	90	110				

Associated samples: **H14030285-022A; H14030285-022B**

Run ID :Run Order: **ICP2-HE_140401B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **04/01/14 09:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	-0.0295	0.010				0	0				

Associated samples: **H14030285-022A; H14030285-022B**

Run ID :Run Order: **ICP2-HE_140401B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **04/01/14 09:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.898	0.010	1		90	80	120				

Associated samples: **H14030285-022A; H14030285-022B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R95975

Date: *17-Apr-14*

Run ID :Run Order: **EXTRACT OV 2_140401B: 2** SampType: **Sample Duplicate** Lab ID: **H14030285-021BDUP** Method: **D2974**

Analysis Date: **04/02/14 13:53** Units: **wt%** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Moisture	61.6	0.20						68			

Associated samples: **H14030285-021B; H14030285-022B; H14030285-023B; H14030285-024B; H14030285-025B; H14030285-026B; H14030285-027B; H14030285-028B; H14030285-029B; H14030285-030B; H14030285-031B; H14030285-032B; H14030285-033B**

Run ID :Run Order: **EXTRACT OV 2_140401B: 8** SampType: **Sample Duplicate** Lab ID: **H14030285-026BDUP** Method: **D2974**

Analysis Date: **04/02/14 13:53** Units: **wt%** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Moisture	72.9	0.20						81.13			

Associated samples: **H14030285-021B; H14030285-022B; H14030285-023B; H14030285-024B; H14030285-025B; H14030285-026B; H14030285-027B; H14030285-028B; H14030285-029B; H14030285-030B; H14030285-031B; H14030285-032B; H14030285-033B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140321A

Date: *17-Apr-14*

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 1** SampType: **Method Blank** Lab ID: **MB-1_140321A** Method: **A2540 D**
Analysis Date: **03/21/14 08:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-2_140321A** Method: **A2540 D**
Analysis Date: **03/21/14 08:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	87.0	10	100		87	80	120				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 4** SampType: **Sample Duplicate** Lab ID: **H14030120-001B DUP** Method: **A2540 D**
Analysis Date: **03/21/14 08:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	52.0	10						34	42	5	R

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 1** SampType: **Sample Duplicate** Lab ID: **H14030278-004A DUP** Method: **A2540 D**
Analysis Date: **03/21/14 08:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	10								5	

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 2** SampType: **Method Blank** Lab ID: **MB-25_140321A** Method: **A2540 D**
Analysis Date: **03/21/14 08:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	4.0									

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14030285
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140321A

Date: *17-Apr-14*

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-26_140321A** Method: **A2540 D**

Analysis Date: **03/21/14 08:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	81.0	10	100		81	80	120				

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140321A: 2** SampType: **Sample Duplicate** Lab ID: **H14030285-008A DUP** Method: **A2540 D**

Analysis Date: **03/21/14 08:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	12.0	10						13	8.0	5	R

Associated samples: **H14030285-001A; H14030285-002A; H14030285-003A; H14030285-004A; H14030285-005A; H14030285-006A; H14030285-007A; H14030285-008A; H14030285-009A; H14030285-010A; H14030285-011A; H14030285-012A; H14030285-013A; H14030285-014A; H14030285-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

April 15, 2014

Energy Laboratories, Inc.
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Helena MT 59604
jhager@energylab.com

RE: Project ENL-HL1201 Client Project: Silver Bow / Clark Fork

Dear Jonathan Dee Hager,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on March 24, 2014. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data is reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12911

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
CRM	certified reference material	**RPD**	relative percent difference
D	dissolved fraction	**RSD**	relative standard deviation
DUP	duplicate	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction
IBL	instrument blank		

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

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Project ID: ENL-HL1201
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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
H14030285-016A	1413002-01	Water	Sample	03/18/2014	03/24/2014
H14030285-017A	1413002-02	Water	Field Blank	03/18/2014	03/24/2014
H14030285-018A	1413002-03	Water	Sample	03/18/2014	03/24/2014
H14030285-019A	1413002-04	Water	Field Duplicate	03/18/2014	03/24/2014
H14030285-020A	1413002-05	DIW	Trip Blank	03/18/2014	03/24/2014

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	03/31/2014	04/02/2014	B140537	1400278

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Project ID: ENL-HL1201
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Client PM: Jonathan Dee Hager
Client PO: H12911

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
H14030285-016A										
1413002-01	MeHg	Water	T	0.615		0.020	0.050	ng/L	B140537	1400278
H14030285-017A										
1413002-02	MeHg	Water	T	0.020	U	0.020	0.050	ng/L	B140537	1400278
H14030285-018A										
1413002-03	MeHg	Water	T	1.14		0.020	0.049	ng/L	B140537	1400278
H14030285-019A										
1413002-04	MeHg	Water	T	1.34		0.020	0.050	ng/L	B140537	1400278
H14030285-020A										
1413002-05	MeHg	DIW	T	0.020	U	0.020	0.050	ng/L	B140537	1400278

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Project ID: ENL-HL1201
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Client PM: Jonathan Dee Hager
Client PO: H12911

Accuracy & Precision Summary

Batch: B140537
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits		RPD & Limits	
B140537-BS1	**Laboratory Fortified Blank (1413016)**								
	MeHg		1.000	1.033	ng/L	103%	67-133		
B140537-BS2	**Laboratory Fortified Blank (1413016)**								
	MeHg		1.000	1.013	ng/L	101%	67-133		
B140537-MS1	**Matrix Spike (1413002-01)**								
	MeHg	0.615	1.000	1.663	ng/L	105%	65-135		
B140537-MSD1	**Matrix Spike Duplicate (1413002-01)**								
	MeHg	0.615	1.000	1.737	ng/L	112%	65-135	4%	35

Method Blanks & Reporting Limits

Batch: B140537
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B140537-BLK1	0.005	ng/L
B140537-BLK2	0.009	ng/L
B140537-BLK3	0.006	ng/L
B140537-BLK4	0.007	ng/L

Average: 0.007 **Standard Deviation:** 0.002 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12911

Sample Containers

Lab ID: 1413002-01 **Report Matrix:** Water **Collected:** 03/18/2014
Sample: H14030285-016A **Sample Type:** Sample **Received:** 03/24/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCL (PP)	1410052	<2	Cooler

Lab ID: 1413002-02 **Report Matrix:** Water **Collected:** 03/18/2014
Sample: H14030285-017A **Sample Type:** Field Blank **Received:** 03/24/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCL (PP)	1410052	<2	Cooler

Lab ID: 1413002-03 **Report Matrix:** Water **Collected:** 03/18/2014
Sample: H14030285-018A **Sample Type:** Sample **Received:** 03/24/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCL (PP)	1410052	<2	Cooler

Lab ID: 1413002-04 **Report Matrix:** Water **Collected:** 03/18/2014
Sample: H14030285-019A **Sample Type:** Field Duplicate **Received:** 03/24/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCL (PP)	1410052	<2	Cooler

Lab ID: 1413002-05 **Report Matrix:** DIW **Collected:** 03/18/2014
Sample: H14030285-020A **Sample Type:** Trip Blank **Received:** 03/24/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCL (PP)	1410052	<2	Cooler

Shipping Containers

Cooler

Received: March 24, 2014 12:00
Tracking No: 1Z37EW970351426858 via UPS
Coolant Type: Ice
Temperature: 1.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

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Energy Laboratories Inc
3161 East Lyndale Avenue
Helena, MT 59601
(406) 442-0711

H14030285

1413002

CHAIN-OF-CUSTODY RECORD

Custody Seal: (Y) N
Intacted: (Y) N
Signature Match: (Y) N

Shipped By: _____
Receipt Temp: 1.4

Subcontractor:
Brooks Rand Labs
3958 6th Ave NW
Seattle, WA 98106
TEL: (206) 632-6206 FAX: (206) 632-6017
Acct #:

Subcontractor's Client:

Rush	Sample ID	Matrix	Collection Date	Bottle Type	SUB-BROOKSRAND	Requested Tests
☐	H14030285-016A	Aqueous	03/18/14 11:00 A	1-CLIENT-SLD	1	
☐	H14030285-017A	Aqueous	03/18/14 12:30 P	1-CLIENT-SLD	1	
☐	H14030285-018A	Aqueous	03/18/14 01:30 P	1-CLIENT-SLD	1	
☐	H14030285-019A	Aqueous	03/18/14 01:30 P	1-CLIENT-SLD	1	
☐	H14030285-020A	Trip Blank	03/18/14 09:00 A	1-TRIP BLANK	1	

Earliest Due Date: 4/3/2014

Comments: PO# H12911

QC Level: **STD**

		Date/Time
Relinquished by:	[signature]	
Relinquished by:	[signature]	3/20/14 14:42
Received by:	[signature]	3/24/14 12:00
Received by:		

Workorder Receipt Checklist

MT DEQ-Federal Superfund

H14030285

Login completed by: Tracy L. Lorash
Date Received: 3/20/2014
Reviewed by: BL2000\sdull
Received by: SRW
Reviewed Date: 3/27/2014
Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	°C See comments		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Sample ID on COC is Field Blank #1 -ID on methyl mercury bottle is Field Blank. Logged in with ID from COC. Cooler 1 was received at 5.0°C, Cooler 2 at 0.6°C, Cooler 3 at 1.4°C. Samples in Cooler 1 were not received on ice and samples in Coolers 2 & 3 were received on wet ice. Tl 3/20/14

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via RESPEC)

Project Name, PWS, Permit, Etc.: CFRON Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): jgriffin@mt.gov. erich.weber@respec.com gary.ingman@respec.com ☐ No Hard Copy Email:

Contact Name: Joe Griffin Phone/Fax: 560-6060 (MTDEQ) Erich Weber 502-1546 Cell: 439-0563

Sampler: (Please Print) J. Naughton E. Weber H. McAdams

Invoice Contact & Phone: Joe Griffin (above)

Purchase Order:

Quote/Bottle Order: H958/14276

Invoice Address (Required): MT DEQ P.O. Box 200901 Helena, MT 59620-0901 ☐ No Hard Copy Email:

Special Report/Formats: ☐ DW ☐ POTW/WWTP ☐ State: ☐ Other: ☐ EDD/EDT (Electronic Data) Format: ☐ LEVEL IV ☐ NELAC

Standard Turnaround (TAT) — RUSH: Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: sieve sediment for <0.063mm fraction only; Total metals as dry weight.

Shipped by: hand

Cooler ID(s): Y

Receipt Temp: C-1: 5.0 C-2: 0.6°C C-3: 1.4 JB

On Ice: (Y) N C-1 C-2 C-3

Custody Seal: On Bottle Y N; On Cooler Y N; Intact Y N; Signature Match Y N

Number of Containers / Sample Type: A W S V B O DW / Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^-, Cl^-	Hardness (TR Ca + Mg)	DOC	Tot. As, Cd, Cu, Pb, Zn (D.W.)	SEE ATTACHED			LABORATORY USE ONLY
C-1 1 3CFR-116A	3-18-2014	0900	SW, IS	x	x	x	x	x	x	x	x	x				H14030285
C-1 2 Field Blank #1	3-18-2014	12:30	SW	x	x	x	x	x	x	x	x					
C-1 3 FC-CFR	3-18-2014	13:30	SW													
C-1 4 FC-CFR Duplicate	3-18-2014	13:30	SW													
C-1 5 3LBR-CFR	3-18-2014	15:00	SW, IS	x	x	x	x	x	x	x	x	x				
C-1 6 3CFR-27H	3-18-2014	16:30	SW, IS													
C-1 7 3CFR-11F	3-18-2014	17:45	SW, IS													
C-1 8 3CFR-07D	3-19-2014	08:45	SW, IS													
C-2 9 3CFR-03A	3-19-2014	10:00	SW, IS													
C-2 10 3WSC-SBC	3-19-2014	11:00	SW, IS													

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 3-20-2014 13:40 Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Scott Wunderlich Date/Time: 3/20/14 1340 Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via RESPEC)	Project Name, PWS, Permit, Etc.: CFROU Monitoring	Sample Origin State: MT	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address (Required): See page 1 ☐ No Hard Copy Email:	Contact Name: See page 1 Phone/Fax:	Cell:	Sampler: (Please Print) J. Naughton E. Weber H. McAdams
	Invoice Contact & Phone: See page 1	Purchase Order:	Quote/Bottle Order: H958/ 14276
Invoice Address (Required): See page 1 ☐ No Hard Copy Email:			

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

Standard Turnaround (TAT) — RUSH: Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: Sieve sediment for <0.063mm fraction only; Total metals as dry weight

Shipped by: hand
Cooler ID(s): Y
Receipt Temp: C-1: 5.0 C-2: 0.6 C-3: 1.4 To B C
On Ice: Y N
Custody Seal: On Bottle Y; On Cooler Y N; Intact Y N; Signature Match Y N

ANALYSIS REQUESTED

Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Matrix (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk, SO_4^-, Cl^-	Hardness (TR Ca & Mg)	DOC	Tot. As, Cd, Cu, Pb, Zn (D.W.)	SEE ATTACHED	Comments
C-1,2,3 1 SS-25	3-19-2014	12:00	SW, IS	X	X	X	X	X	X	X	X	X		
C-1,2,3 2 MWB-SBC	3-19-2014	13:30	SW, IS											
C-2 3 Field Blank #2	3-19-2014	14:15	SW									~~X~~		no sediment
C-2,3 4 MCWC-MWB	3-19-2014	15:00	SW, IS									X		
C-2,3 5 MCWC-MWB Duplicate	3-19-2014	15:00	SW, IS											
C-3 6 LC-7.5	3-19-2014	16:00	IS									X		
C-3 7 RTC-1.5	3-19-2014	16:45	IS									X		
8														
9														
10														

LABORATORY USE ONLY: H14030285

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Erich Weber	3-20-2014 13:40				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Scott Wunderlich	Date/Time: 3/20/14 1340	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via RESPEC)	Project Name, PWS, Permit, Etc.: CFR OU Monitoring	Sample Origin State: MT	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address (Required): see page 1 ❑ No Hard Copy Email:	Contact Name: see page 1 Phone/Fax:	Cell:	Sampler: (Please Print) J. Naughton E. Weber H. McAdams
	Invoice Contact & Phone: see page 1	Purchase Order:	Quote/Bottle Order: H958/14276
Invoice Address (Required): see page 1 ❑ No Hard Copy Email:			

Special Report/Formats:
- ☐ DW
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: hand

Cooler ID(s): 4

Receipt Temp: C-1: 5.3 C-2: 0.6 C-3: 1.4 °C

On Ice: (Y) (N) C-2, C-3 C-1

Custody Seal: On Bottle Y (N); On Cooler Y (N); Intact Y N; Signature Match Y (N)

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	Methyl Hg (Contract)	Total Hg (Low Level)	SEE ATTACHED	Standard Turnaround (TAT)	RUSH	Comments	LABORATORY USE ONLY
C-1	1 CFR-84F	3-18-2014	11:00	2W	X	X				Separate sample for Total Hg	H14030285
C-1	2 Field Blank #1	3-18-2014	12:30	2W	X	X				Total Hg from TR method	
C-1	3 FC-CFR	3-18-2014	13:30	2W	X	X				Total Hg from TR method	
C-1	4 FC-CFR Duplicate	3-18-2014	13:30	2W	X	X				Total Hg from TR method	
	5										
	6										
	7										
	8										
	9										
	10										

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Erich Weber	3-20-2014 13:40				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Scott Wunderlich	Date/Time: 3/20/14 1340	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

APPENDIX B2

ANALYTICAL LABORATORY RESULTS
2ND QUARTER MONITORING

ANALYTICAL SUMMARY REPORT

June 12, 2014

MT DEQ-Federal Superfund
PO Box 200901
Helena, MT 59620-0901

Work Order: H14050278 Quote ID: H958

Project Name: CFR Monitoring-474374

Energy Laboratories Inc Helena MT received the following 20 samples for MT DEQ-Federal Superfund on 5/15/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H14050278-001	CFR-116A	05/13/14 9:30	05/15/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14050278-002	CSC	05/13/14 10:45	05/15/14	Aqueous	Same As Above
H14050278-003	LBR-CFR	05/13/14 15:30	05/15/14	Aqueous	Same As Above
H14050278-004	CFR-42G	05/13/14 17:30	05/15/14	Aqueous	Same As Above
H14050278-005	CFR-27H	05/14/14 8:45	05/15/14	Aqueous	Same As Above
H14050278-006	CFR-11F	05/14/14 9:45	05/15/14	Aqueous	Same As Above
H14050278-007	CFR-07D	05/14/14 10:45	05/15/14	Aqueous	Same As Above
H14050278-008	CFR-03A	05/14/14 11:45	05/15/14	Aqueous	Same As Above
H14050278-009	WSC-SBC	05/14/14 12:45	05/15/14	Aqueous	Same As Above
H14050278-010	SS-25	05/14/14 13:45	05/15/14	Aqueous	Same As Above
H14050278-011	MWB-SBC	05/14/14 14:30	05/15/14	Aqueous	Same As Above
H14050278-012	SBC P2	05/14/14 15:30	05/15/14	Aqueous	Same As Above
H14050278-013	Field Blank #2	05/14/14 16:00	05/15/14	Aqueous	Same As Above
H14050278-014	MCWC-MWB	05/14/14 16:30	05/15/14	Aqueous	Same As Above
H14050278-015	MCWC-MWB Duplicate	05/14/14 16:30	05/15/14	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

H14050278-016	CFR-84F	05/13/14 12:00	05/15/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Mercury, Total Recoverable Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Mercury by CVAA Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended Subcontracted, Analytics
H14050278-017	Field Blank #1	05/13/14 13:15	05/15/14	Aqueous	Same As Above
H14050278-018	FC-CFR	05/13/14 13:45	05/15/14	Aqueous	Same As Above
H14050278-019	FC-CFR Duplicate	05/13/14 13:45	05/15/14	Aqueous	Same As Above
H14050278-020	Trip Blank	05/13/14 9:30	05/15/14	Trip Blank	Subcontracted, Analytics

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Work Order: H14050278

Report Date: 06/12/14

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Samples 016, 017, 018, 019 & 020 were submitted to Brooks Rand Labs for analysis of Methyl Mercury. Attached is the final report. Wj 6/9/14

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14050278-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 09:30 **DateReceived:** 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	18	mg/L		1		A2540 D	05/16/14 11:35 / blm		-124 (14410200)_140516A	9	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	77	mg/L		4		A2320 B	05/19/14 10:11 / SR		PHSC_101-H_140519A	9	R97213
Bicarbonate as HCO3	94	mg/L		4		A2320 B	05/19/14 10:11 / SR		PHSC_101-H_140519A	9	R97213
Chloride	2	mg/L		1		E300.0	05/16/14 15:50 / SR		IC102-H_140516A	17	R97231
Sulfate	20	mg/L		1		E300.0	05/16/14 15:50 / SR		IC102-H_140516A	17	R97231
Hardness as CaCO3	92	mg/L		1		A2340 B	05/19/14 11:30 / abb		CALC_140520A	36	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.3	mg/L		0.1		A5310 C	05/21/14 13:05 / eli-c		SUB-C186784	4	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:34 / cm		FIA203-HE_140519A	49	R97227
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:01 / cm		FIA203-HE_140516B	61	R97143
Nitrogen, Total	0.29	mg/L		0.05		A4500 N-C	05/20/14 16:33 / cm	05/16/14 09:44	FIA203-HE_140520H	23	24571
Phosphorus, Total as P	0.036	mg/L		0.005		E365.1	05/19/14 16:13 / cm	05/19/14 13:11	FIA202-HE_140519B	43	24599
METALS, DISSOLVED											
Arsenic	0.005	mg/L		0.001		E200.8	05/22/14 22:20 / dck		ICPMS204-B_140521A	205	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/22/14 22:20 / dck		ICPMS204-B_140521A	205	R97311
Copper	0.003	mg/L		0.001		E200.8	05/22/14 22:20 / dck		ICPMS204-B_140521A	205	R97311
Lead	ND	mg/L		0.0003		E200.8	05/22/14 22:20 / dck		ICPMS204-B_140521A	205	R97311
Zinc	0.011	mg/L		0.008		E200.8	05/22/14 22:20 / dck		ICPMS204-B_140521A	205	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.006	mg/L		0.001		E200.8	05/22/14 22:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	210	24565
Cadmium	0.00012	mg/L		0.00003		E200.8	05/31/14 05:28 / dck	05/29/14 11:07	ICPMS204-B_140530B	24	24721
Calcium	26	mg/L		1		E200.7	05/19/14 11:30 / sld	05/16/14 08:16	ICP2-HE_140519A	27	24565
Copper	0.017	mg/L		0.001		E200.8	05/22/14 22:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	210	24565
Lead	0.0028	mg/L		0.0003		E200.8	05/22/14 22:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	210	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14050278-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 09:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	05/19/14 11:30 / sld	05/16/14 08:16	ICP2-HE_140519A	27	24565
Zinc	0.027	mg/L		0.008		E200.8	05/31/14 05:28 / dck	05/29/14 11:07	ICPMS204-B_140530B	24	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CSC
Lab ID: H14050278-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 10:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	05/16/14 11:35 / blm		I24 (14410200)_140516A	10	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	05/19/14 10:21 / SR		PHSC_101-H_140519A	13	R97213
Bicarbonate as HCO3	170	mg/L		4		A2320 B	05/19/14 10:21 / SR		PHSC_101-H_140519A	13	R97213
Chloride	3	mg/L		1		E300.0	05/16/14 16:23 / SR		IC102-H_140516A	20	R97231
Sulfate	31	mg/L		1		E300.0	05/16/14 16:23 / SR		IC102-H_140516A	20	R97231
Hardness as CaCO3	153	mg/L		1		A2340 B	05/19/14 11:52 / abb		CALC_140520A	47	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.9	mg/L		0.1		A5310 C	05/21/14 13:15 / eli-c		SUB-C186784	5	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:35 / cm		FIA203-HE_140519A	50	R97227
Nitrogen, Nitrate+Nitrite as N	0.29	mg/L		0.05		E353.2	05/16/14 10:02 / cm		FIA203-HE_140516B	62	R97143
Nitrogen, Total	0.45	mg/L		0.05		A4500 N-C	05/20/14 16:34 / cm	05/16/14 09:44	FIA203-HE_140520H	24	24571
Phosphorus, Total as P	0.012	mg/L		0.005		E365.1	05/19/14 16:16 / cm	05/19/14 13:11	FIA202-HE_140519B	46	24599
METALS, DISSOLVED											
Arsenic	0.002	mg/L		0.001		E200.8	05/22/14 23:13 / dck		ICPMS204-B_140521A	217	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/22/14 23:13 / dck		ICPMS204-B_140521A	217	R97311
Copper	ND	mg/L		0.001		E200.8	05/22/14 23:13 / dck		ICPMS204-B_140521A	217	R97311
Lead	ND	mg/L		0.0003		E200.8	05/22/14 23:13 / dck		ICPMS204-B_140521A	217	R97311
Zinc	0.017	mg/L		0.008		E200.8	05/22/14 23:13 / dck		ICPMS204-B_140521A	217	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.002	mg/L		0.001		E200.8	05/22/14 23:18 / dck	05/16/14 08:16	ICPMS204-B_140521A	218	24565
Cadmium	0.00005	mg/L		0.00003		E200.8	05/31/14 05:32 / dck	05/29/14 11:07	ICPMS204-B_140530B	25	24721
Calcium	45	mg/L		1		E200.7	05/19/14 11:52 / sld	05/16/14 08:16	ICP2-HE_140519A	33	24565
Copper	0.001	mg/L		0.001		E200.8	05/22/14 23:18 / dck	05/16/14 08:16	ICPMS204-B_140521A	218	24565
Lead	ND	mg/L		0.0003		E200.8	05/22/14 23:18 / dck	05/16/14 08:16	ICPMS204-B_140521A	218	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CSC
Lab ID: H14050278-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 10:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	10	mg/L		1		E200.7	05/19/14 11:52 / sld	05/16/14 08:16	ICP2-HE_140519A	33	24565
Zinc	0.010	mg/L		0.008		E200.8	05/28/14 17:41 / dck	05/27/14 13:15	ICPMS204-B_140528B	25	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR
Lab ID: H14050278-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 15:30 **DateReceived:** 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	10	mg/L		1		A2540 D	05/16/14 11:36 / blm		I24 (14410200)_140516A	11	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	76	mg/L		4		A2320 B	05/19/14 10:42 / SR		PHSC_101-H_140519A	16	R97213
Bicarbonate as HCO3	93	mg/L		4		A2320 B	05/19/14 10:42 / SR		PHSC_101-H_140519A	16	R97213
Chloride	1	mg/L		1		E300.0	05/16/14 16:34 / SR		IC102-H_140516A	21	R97231
Sulfate	8	mg/L		1		E300.0	05/16/14 16:34 / SR		IC102-H_140516A	21	R97231
Hardness as CaCO3	75	mg/L		1		A2340 B	05/19/14 11:56 / abb		CALC_140520A	58	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.4	mg/L		0.1		A5310 C	05/21/14 13:26 / eli-c		SUB-C186784	6	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:36 / cm		FIA203-HE_140519A	51	R97227
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:04 / cm		FIA203-HE_140516B	63	R97143
Nitrogen, Total	0.30	mg/L		0.05		A4500 N-C	05/20/14 16:35 / cm	05/16/14 09:44	FIA203-HE_140520H	25	24571
Phosphorus, Total as P	0.033	mg/L		0.005		E365.1	05/19/14 16:17 / cm	05/19/14 13:11	FIA202-HE_140519B	47	24599
METALS, DISSOLVED											
Arsenic	0.004	mg/L		0.001		E200.8	05/22/14 23:22 / dck		ICPMS204-B_140521A	219	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/22/14 23:22 / dck		ICPMS204-B_140521A	219	R97311
Copper	0.001	mg/L		0.001		E200.8	05/22/14 23:22 / dck		ICPMS204-B_140521A	219	R97311
Lead	ND	mg/L		0.0003		E200.8	05/22/14 23:22 / dck		ICPMS204-B_140521A	219	R97311
Zinc	0.009	mg/L		0.008		E200.8	05/22/14 23:22 / dck		ICPMS204-B_140521A	219	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.005	mg/L		0.001		E200.8	05/22/14 23:27 / dck	05/16/14 08:16	ICPMS204-B_140521A	220	24565
Cadmium	0.00004	mg/L		0.00003		E200.8	05/31/14 05:37 / dck	05/29/14 11:07	ICPMS204-B_140530B	26	24721
Calcium	22	mg/L		1		E200.7	05/19/14 11:56 / sld	05/16/14 08:16	ICP2-HE_140519A	34	24565
Copper	0.002	mg/L		0.001		E200.8	05/22/14 23:27 / dck	05/16/14 08:16	ICPMS204-B_140521A	220	24565
Lead	0.0009	mg/L		0.0003		E200.8	05/22/14 23:27 / dck	05/16/14 08:16	ICPMS204-B_140521A	220	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR
Lab ID: H14050278-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 15:30 **DateReceived:** 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	5	mg/L		1		E200.7	05/19/14 11:56 / sld	05/16/14 08:16	ICP2-HE_140519A	34	24565
Zinc	ND	mg/L		0.008		E200.8	05/31/14 05:37 / dck	05/29/14 11:07	ICPMS204-B_140530B	26	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-42G
Lab ID: H14050278-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 17:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	21	mg/L		1		A2540 D	05/16/14 12:16 / blm		I24 (14410200)_140516A	37	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	05/19/14 10:47 / SR		PHSC_101-H_140519A	18	R97213
Bicarbonate as HCO3	140	mg/L		4		A2320 B	05/19/14 10:47 / SR		PHSC_101-H_140519A	18	R97213
Chloride	10	mg/L		1		E300.0	05/16/14 16:45 / SR		IC102-H_140516A	22	R97231
Sulfate	71	mg/L		1		E300.0	05/16/14 16:45 / SR		IC102-H_140516A	22	R97231
Hardness as CaCO3	171	mg/L		1		A2340 B	05/19/14 12:00 / abb		CALC_140520A	69	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.1		A5310 C	05/21/14 13:36 / eli-c		SUB-C186784	7	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:40 / cm		FIA203-HE_140519A	54	R97227
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:05 / cm		FIA203-HE_140516B	64	R97143
Nitrogen, Total	0.41	mg/L		0.05		A4500 N-C	05/20/14 16:43 / cm	05/16/14 09:46	FIA203-HE_140520H	31	24572
Phosphorus, Total as P	0.030	mg/L		0.005		E365.1	05/19/14 16:18 / cm	05/19/14 13:11	FIA202-HE_140519B	48	24599
METALS, DISSOLVED											
Arsenic	0.016	mg/L		0.001		E200.8	05/22/14 23:31 / dck		ICPMS204-B_140521A	221	R97311
Cadmium	0.00003	mg/L		0.00003		E200.8	05/22/14 23:31 / dck		ICPMS204-B_140521A	221	R97311
Copper	0.009	mg/L		0.001		E200.8	05/22/14 23:31 / dck		ICPMS204-B_140521A	221	R97311
Lead	ND	mg/L		0.0003		E200.8	05/22/14 23:31 / dck		ICPMS204-B_140521A	221	R97311
Zinc	0.014	mg/L		0.008		E200.8	05/22/14 23:31 / dck		ICPMS204-B_140521A	221	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	05/22/14 23:36 / dck	05/16/14 08:16	ICPMS204-B_140521A	222	24565
Cadmium	0.00018	mg/L	D	0.00005		E200.8	05/31/14 05:41 / dck	05/29/14 11:07	ICPMS204-B_140530B	27	24721
Calcium	51	mg/L		1		E200.7	05/19/14 12:00 / sld	05/16/14 08:16	ICP2-HE_140519A	35	24565
Copper	0.037	mg/L		0.001		E200.8	05/22/14 23:36 / dck	05/16/14 08:16	ICPMS204-B_140521A	222	24565
Lead	0.0042	mg/L		0.0003		E200.8	05/22/14 23:36 / dck	05/16/14 08:16	ICPMS204-B_140521A	222	24565

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-42G
Lab ID: H14050278-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 17:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	05/19/14 12:00 / sld	05/16/14 08:16	ICP2-HE_140519A	35	24565
Zinc	0.034	mg/L		0.008		E200.8	05/31/14 05:41 / dck	05/29/14 11:07	ICPMS204-B_140530B	27	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14050278-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 08:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	13	mg/L		1		A2540 D	05/16/14 11:37 / blm		I24 (14410200)_140516A	12	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	05/19/14 10:53 / SR		PHSC_101-H_140519A	20	R97213
Bicarbonate as HCO3	150	mg/L		4		A2320 B	05/19/14 10:53 / SR		PHSC_101-H_140519A	20	R97213
Chloride	10	mg/L		1		E300.0	05/16/14 16:57 / SR		IC102-H_140516A	23	R97231
Sulfate	73	mg/L		1		E300.0	05/16/14 16:57 / SR		IC102-H_140516A	23	R97231
Hardness as CaCO3	169	mg/L		1		A2340 B	05/19/14 12:04 / abb		CALC_140520A	80	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.1		A5310 C	05/21/14 13:47 / eli-c		SUB-C186784	8	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:43 / cm		FIA203-HE_140519A	57	R97227
Nitrogen, Nitrate+Nitrite as N	0.06	mg/L		0.05		E353.2	05/16/14 10:06 / cm		FIA203-HE_140516B	65	R97143
Nitrogen, Total	0.46	mg/L		0.05		A4500 N-C	05/20/14 16:46 / cm	05/16/14 09:46	FIA203-HE_140520H	34	24572
Phosphorus, Total as P	0.029	mg/L		0.005		E365.1	05/19/14 16:19 / cm	05/19/14 13:11	FIA202-HE_140519B	49	24599
METALS, DISSOLVED											
Arsenic	0.015	mg/L		0.001		E200.8	05/22/14 23:40 / dck		ICPMS204-B_140521A	223	R97311
Cadmium	0.00004	mg/L		0.00003		E200.8	05/22/14 23:40 / dck		ICPMS204-B_140521A	223	R97311
Copper	0.008	mg/L		0.001		E200.8	05/22/14 23:40 / dck		ICPMS204-B_140521A	223	R97311
Lead	ND	mg/L		0.0003		E200.8	05/22/14 23:40 / dck		ICPMS204-B_140521A	223	R97311
Zinc	0.021	mg/L		0.008		E200.8	05/22/14 23:40 / dck		ICPMS204-B_140521A	223	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.018	mg/L		0.001		E200.8	05/22/14 23:45 / dck	05/16/14 08:16	ICPMS204-B_140521A	224	24565
Cadmium	0.00018	mg/L		0.00003		E200.8	05/31/14 06:03 / dck	05/29/14 11:07	ICPMS204-B_140530B	32	24721
Calcium	50	mg/L		1		E200.7	05/19/14 12:04 / sld	05/16/14 08:16	ICP2-HE_140519A	36	24565
Copper	0.033	mg/L		0.001		E200.8	05/22/14 23:45 / dck	05/16/14 08:16	ICPMS204-B_140521A	224	24565
Lead	0.0035	mg/L		0.0003		E200.8	05/22/14 23:45 / dck	05/16/14 08:16	ICPMS204-B_140521A	224	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14050278-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 08:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	05/19/14 12:04 / sld	05/16/14 08:16	ICP2-HE_140519A	36	24565
Zinc	0.033	mg/L		0.008		E200.8	05/31/14 06:03 / dck	05/29/14 11:07	ICPMS204-B_140530B	32	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14050278-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 09:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	05/16/14 11:38 / blm		I24 (14410200)_140516A	13	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	05/19/14 10:59 / SR		PHSC_101-H_140519A	22	R97213
Bicarbonate as HCO3	140	mg/L		4		A2320 B	05/19/14 10:59 / SR		PHSC_101-H_140519A	22	R97213
Chloride	10	mg/L		1		E300.0	05/16/14 17:07 / SR		IC102-H_140516A	24	R97231
Sulfate	79	mg/L		1		E300.0	05/16/14 17:07 / SR		IC102-H_140516A	24	R97231
Hardness as CaCO3	171	mg/L		1		A2340 B	05/19/14 12:07 / abb		CALC_140520A	91	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.1	mg/L		0.1		A5310 C	05/21/14 13:57 / eli-c		SUB-C186784	9	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:44 / cm		FIA203-HE_140519A	58	R97227
Nitrogen, Nitrate+Nitrite as N	0.08	mg/L		0.05		E353.2	05/16/14 10:07 / cm		FIA203-HE_140516B	66	R97143
Nitrogen, Total	0.39	mg/L		0.05		A4500 N-C	05/20/14 16:47 / cm	05/16/14 09:46	FIA203-HE_140520H	35	24572
Phosphorus, Total as P	0.025	mg/L		0.005		E365.1	05/19/14 16:20 / cm	05/19/14 13:11	FIA202-HE_140519B	50	24599
METALS, DISSOLVED											
Arsenic	0.015	mg/L		0.001		E200.8	05/22/14 23:49 / dck		ICPMS204-B_140521A	225	R97311
Cadmium	0.00003	mg/L		0.00003		E200.8	05/22/14 23:49 / dck		ICPMS204-B_140521A	225	R97311
Copper	0.007	mg/L		0.001		E200.8	05/22/14 23:49 / dck		ICPMS204-B_140521A	225	R97311
Lead	ND	mg/L		0.0003		E200.8	05/22/14 23:49 / dck		ICPMS204-B_140521A	225	R97311
Zinc	0.009	mg/L		0.008		E200.8	05/22/14 23:49 / dck		ICPMS204-B_140521A	225	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.017	mg/L		0.001		E200.8	05/22/14 23:54 / dck	05/16/14 08:16	ICPMS204-B_140521A	226	24565
Cadmium	0.00015	mg/L		0.00003		E200.8	05/31/14 06:07 / dck	05/29/14 11:07	ICPMS204-B_140530B	33	24721
Calcium	51	mg/L		1		E200.7	05/19/14 12:07 / sld	05/16/14 08:16	ICP2-HE_140519A	37	24565
Copper	0.022	mg/L		0.001		E200.8	05/22/14 23:54 / dck	05/16/14 08:16	ICPMS204-B_140521A	226	24565
Lead	0.0025	mg/L		0.0003		E200.8	05/22/14 23:54 / dck	05/16/14 08:16	ICPMS204-B_140521A	226	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14050278-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 09:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	05/19/14 12:07 / sld	05/16/14 08:16	ICP2-HE_140519A	37	24565
Zinc	0.023	mg/L		0.008		E200.8	05/31/14 06:07 / dck	05/29/14 11:07	ICPMS204-B_140530B	33	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14050278-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 10:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	9	mg/L		1		A2540 D	05/16/14 11:39 / blm		I24 (14410200)_140516A	15	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	05/19/14 11:04 / SR		PHSC_101-H_140519A	24	R97213
Bicarbonate as HCO3	140	mg/L		4		A2320 B	05/19/14 11:04 / SR		PHSC_101-H_140519A	24	R97213
Chloride	11	mg/L		1		E300.0	05/16/14 17:19 / SR		IC102-H_140516A	25	R97231
Sulfate	81	mg/L		1		E300.0	05/16/14 17:19 / SR		IC102-H_140516A	25	R97231
Hardness as CaCO3	179	mg/L		1		A2340 B	05/19/14 12:11 / abb		CALC_140520A	102	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.1		A5310 C	05/21/14 15:15 / eli-c		SUB-C186784	13	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:46 / cm		FIA203-HE_140519A	59	R97227
Nitrogen, Nitrate+Nitrite as N	0.08	mg/L		0.05		E353.2	05/16/14 10:08 / cm		FIA203-HE_140516B	67	R97143
Nitrogen, Total	0.46	mg/L		0.05		A4500 N-C	05/20/14 16:48 / cm	05/16/14 09:46	FIA203-HE_140520H	36	24572
Phosphorus, Total as P	0.027	mg/L		0.005		E365.1	05/19/14 16:21 / cm	05/19/14 13:11	FIA202-HE_140519B	51	24599
METALS, DISSOLVED											
Arsenic	0.014	mg/L		0.001		E200.8	05/23/14 00:12 / dck		ICPMS204-B_140521A	230	R97311
Cadmium	0.00004	mg/L		0.00003		E200.8	05/23/14 00:12 / dck		ICPMS204-B_140521A	230	R97311
Copper	0.006	mg/L		0.001		E200.8	05/23/14 00:12 / dck		ICPMS204-B_140521A	230	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 00:12 / dck		ICPMS204-B_140521A	230	R97311
Zinc	0.016	mg/L		0.008		E200.8	05/23/14 00:12 / dck		ICPMS204-B_140521A	230	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.017	mg/L		0.001		E200.8	05/23/14 00:17 / dck	05/16/14 08:16	ICPMS204-B_140521A	231	24565
Cadmium	0.00012	mg/L		0.00003		E200.8	05/31/14 06:11 / dck	05/29/14 11:07	ICPMS204-B_140530B	34	24721
Calcium	53	mg/L		1		E200.7	05/19/14 12:11 / sld	05/16/14 08:16	ICP2-HE_140519A	38	24565
Copper	0.020	mg/L		0.001		E200.8	05/23/14 00:17 / dck	05/16/14 08:16	ICPMS204-B_140521A	231	24565
Lead	0.0021	mg/L		0.0003		E200.8	05/23/14 00:17 / dck	05/16/14 08:16	ICPMS204-B_140521A	231	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14050278-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 10:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	05/19/14 12:11 / sld	05/16/14 08:16	ICP2-HE_140519A	38	24565
Zinc	0.021	mg/L		0.008		E200.8	05/31/14 06:11 / dck	05/29/14 11:07	ICPMS204-B_140530B	34	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14050278-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 11:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	05/16/14 11:39 / blm		I24 (14410200)_140516A	16	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	99	mg/L		4		A2320 B	05/19/14 11:09 / SR		PHSC_101-H_140519A	26	R97213
Bicarbonate as HCO3	120	mg/L		4		A2320 B	05/19/14 11:09 / SR		PHSC_101-H_140519A	26	R97213
Chloride	12	mg/L		1		E300.0	05/16/14 17:30 / SR		IC102-H_140516A	26	R97231
Sulfate	68	mg/L		1		E300.0	05/16/14 17:30 / SR		IC102-H_140516A	26	R97231
Hardness as CaCO3	153	mg/L		1		A2340 B	05/19/14 12:15 / abb		CALC_140520A	113	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.2	mg/L		0.1		A5310 C	05/21/14 15:26 / eli-c		SUB-C186784	14	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:47 / cm		FIA203-HE_140519A	60	R97227
Nitrogen, Nitrate+Nitrite as N	0.07	mg/L		0.05		E353.2	05/16/14 10:12 / cm		FIA203-HE_140516B	70	R97143
Nitrogen, Total	0.48	mg/L		0.05		A4500 N-C	05/20/14 16:50 / cm	05/16/14 09:46	FIA203-HE_140520H	37	24572
Phosphorus, Total as P	0.029	mg/L		0.005		E365.1	05/19/14 16:22 / cm	05/19/14 13:11	FIA202-HE_140519B	52	24599
METALS, DISSOLVED											
Arsenic	0.015	mg/L		0.001		E200.8	05/23/14 00:21 / dck		ICPMS204-B_140521A	232	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 00:21 / dck		ICPMS204-B_140521A	232	R97311
Copper	0.005	mg/L		0.001		E200.8	05/23/14 00:21 / dck		ICPMS204-B_140521A	232	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 00:21 / dck		ICPMS204-B_140521A	232	R97311
Zinc	0.009	mg/L		0.008		E200.8	05/23/14 00:21 / dck		ICPMS204-B_140521A	232	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.016	mg/L		0.001		E200.8	05/23/14 00:26 / dck	05/16/14 08:16	ICPMS204-B_140521A	233	24565
Cadmium	0.00011	mg/L		0.00003		E200.8	06/05/14 13:31 / dck	06/03/14 11:15	ICPMS204-B_140605A	21	24779
Calcium	46	mg/L		1		E200.7	05/19/14 12:15 / sld	05/16/14 08:16	ICP2-HE_140519A	39	24565
Copper	0.012	mg/L		0.001		E200.8	05/23/14 00:26 / dck	05/16/14 08:16	ICPMS204-B_140521A	233	24565
Lead	0.0013	mg/L		0.0003		E200.8	05/23/14 00:26 / dck	05/16/14 08:16	ICPMS204-B_140521A	233	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14050278-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 11:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	05/19/14 12:15 / sld	05/16/14 08:16	ICP2-HE_140519A	39	24565
Zinc	0.014	mg/L		0.008		E200.8	05/31/14 06:16 / dck	05/29/14 11:07	ICPMS204-B_140530B	35	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14050278-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 12:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	05/16/14 11:39 / blm		I24 (14410200)_140516A	17	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	05/19/14 11:15 / SR		PHSC_101-H_140519A	28	R97213
Bicarbonate as HCO3	160	mg/L		4		A2320 B	05/19/14 11:15 / SR		PHSC_101-H_140519A	28	R97213
Chloride	2	mg/L		1		E300.0	05/16/14 17:41 / SR		IC102-H_140516A	27	R97231
Sulfate	43	mg/L		1		E300.0	05/16/14 17:41 / SR		IC102-H_140516A	27	R97231
Hardness as CaCO3	171	mg/L		1		A2340 B	05/19/14 12:19 / abb		CALC_140520A	124	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.7	mg/L		0.1		A5310 C	05/21/14 15:36 / eli-c		SUB-C186784	15	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:48 / cm		FIA203-HE_140519A	61	R97227
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:16 / cm		FIA203-HE_140516B	73	R97143
Nitrogen, Total	0.22	mg/L		0.05		A4500 N-C	05/20/14 16:51 / cm	05/16/14 09:46	FIA203-HE_140520H	38	24572
Phosphorus, Total as P	0.009	mg/L		0.005		E365.1	05/19/14 16:23 / cm	05/19/14 13:11	FIA202-HE_140519B	53	24599
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	05/23/14 00:30 / dck		ICPMS204-B_140521A	234	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 00:30 / dck		ICPMS204-B_140521A	234	R97311
Copper	0.004	mg/L		0.001		E200.8	05/23/14 00:30 / dck		ICPMS204-B_140521A	234	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 00:30 / dck		ICPMS204-B_140521A	234	R97311
Zinc	ND	mg/L		0.008		E200.8	05/23/14 00:30 / dck		ICPMS204-B_140521A	234	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.007	mg/L		0.001		E200.8	05/23/14 00:48 / dck	05/16/14 08:16	ICPMS204-B_140521A	238	24565
Cadmium	0.00007	mg/L		0.00003		E200.8	05/31/14 06:33 / dck	05/29/14 11:07	ICPMS204-B_140530B	39	24721
Calcium	52	mg/L		1		E200.7	05/19/14 12:19 / sld	05/16/14 08:16	ICP2-HE_140519A	40	24565
Copper	0.008	mg/L		0.001		E200.8	05/23/14 00:48 / dck	05/16/14 08:16	ICPMS204-B_140521A	238	24565
Lead	0.0005	mg/L		0.0003		E200.8	05/23/14 00:48 / dck	05/16/14 08:16	ICPMS204-B_140521A	238	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14050278-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 12:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	10	mg/L		1		E200.7	05/19/14 12:19 / sld	05/16/14 08:16	ICP2-HE_140519A	40	24565
Zinc	ND	mg/L		0.008		E200.8	05/31/14 06:33 / dck	05/29/14 11:07	ICPMS204-B_140530B	39	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14050278-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 13:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	05/16/14 11:40 / blm		I24 (14410200)_140516A	18	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	91	mg/L		4		A2320 B	05/19/14 11:20 / SR		PHSC_101-H_140519A	30	R97213
Bicarbonate as HCO3	110	mg/L		4		A2320 B	05/19/14 11:20 / SR		PHSC_101-H_140519A	30	R97213
Chloride	15	mg/L		1		E300.0	05/16/14 17:52 / SR		IC102-H_140516A	28	R97231
Sulfate	69	mg/L		1		E300.0	05/16/14 17:52 / SR		IC102-H_140516A	28	R97231
Hardness as CaCO3	150	mg/L		1		A2340 B	05/19/14 12:22 / abb		CALC_140520A	135	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.9	mg/L		0.1		A5310 C	05/21/14 15:47 / eli-c		SUB-C186784	16	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:49 / cm		FIA203-HE_140519A	62	R97227
Nitrogen, Nitrate+Nitrite as N	0.13	mg/L		0.05		E353.2	05/16/14 10:17 / cm		FIA203-HE_140516B	74	R97143
Nitrogen, Total	0.67	mg/L		0.05		A4500 N-C	05/20/14 16:52 / cm	05/16/14 09:46	FIA203-HE_140520H	39	24572
Phosphorus, Total as P	0.031	mg/L		0.005		E365.1	05/19/14 16:24 / cm	05/19/14 13:11	FIA202-HE_140519B	54	24599
METALS, DISSOLVED											
Arsenic	0.017	mg/L		0.001		E200.8	05/23/14 00:53 / dck		ICPMS204-B_140521A	239	R97311
Cadmium	0.00003	mg/L		0.00003		E200.8	05/23/14 00:53 / dck		ICPMS204-B_140521A	239	R97311
Copper	0.005	mg/L		0.001		E200.8	05/23/14 00:53 / dck		ICPMS204-B_140521A	239	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 00:53 / dck		ICPMS204-B_140521A	239	R97311
Zinc	0.008	mg/L		0.008		E200.8	05/23/14 00:53 / dck		ICPMS204-B_140521A	239	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.018	mg/L		0.001		E200.8	05/23/14 00:57 / dck	05/16/14 08:16	ICPMS204-B_140521A	240	24565
Cadmium	0.00009	mg/L		0.00003		E200.8	05/31/14 06:38 / dck	05/29/14 11:07	ICPMS204-B_140530B	40	24721
Calcium	45	mg/L		1		E200.7	05/19/14 12:22 / sld	05/16/14 08:16	ICP2-HE_140519A	41	24565
Copper	0.009	mg/L		0.001		E200.8	05/23/14 00:57 / dck	05/16/14 08:16	ICPMS204-B_140521A	240	24565
Lead	0.0012	mg/L		0.0003		E200.8	05/23/14 00:57 / dck	05/16/14 08:16	ICPMS204-B_140521A	240	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14050278-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 13:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	05/19/14 12:22 / sld	05/16/14 08:16	ICP2-HE_140519A	41	24565
Zinc	0.014	mg/L		0.008		E200.8	05/31/14 06:38 / dck	05/29/14 11:07	ICPMS204-B_140530B	40	24721

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14050278-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 14:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	05/16/14 11:40 / blm		I24 (14410200)_140516A	19	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	65	mg/L		4		A2320 B	05/19/14 11:25 / SR		PHSC_101-H_140519A	32	R97213
Bicarbonate as HCO3	79	mg/L		4		A2320 B	05/19/14 11:25 / SR		PHSC_101-H_140519A	32	R97213
Chloride	2	mg/L		1		E300.0	05/16/14 18:25 / SR		IC102-H_140516A	31	R97231
Sulfate	51	mg/L		1		E300.0	05/16/14 18:25 / SR		IC102-H_140516A	31	R97231
Hardness as CaCO3	111	mg/L		1		A2340 B	05/19/14 12:26 / abb		CALC_140528A	25	R97464
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.0	mg/L		0.1		A5310 C	05/21/14 15:58 / eli-c		SUB-C186784	17	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:50 / cm		FIA203-HE_140519A	63	R97227
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:18 / cm		FIA203-HE_140516B	75	R97143
Nitrogen, Total	0.31	mg/L		0.05		A4500 N-C	05/20/14 16:53 / cm	05/16/14 09:46	FIA203-HE_140520H	40	24572
Phosphorus, Total as P	0.030	mg/L		0.005		E365.1	05/19/14 16:27 / cm	05/19/14 13:11	FIA202-HE_140519B	57	24599
METALS, DISSOLVED											
Arsenic	0.025	mg/L		0.001		E200.8	05/23/14 01:16 / dck		ICPMS204-B_140521A	244	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 01:16 / dck		ICPMS204-B_140521A	244	R97311
Copper	0.004	mg/L		0.001		E200.8	05/23/14 01:16 / dck		ICPMS204-B_140521A	244	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 01:16 / dck		ICPMS204-B_140521A	244	R97311
Zinc	ND	mg/L		0.008		E200.8	05/23/14 01:16 / dck		ICPMS204-B_140521A	244	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.027	mg/L		0.001		E200.8	05/23/14 01:20 / dck	05/16/14 08:16	ICPMS204-B_140521A	245	24565
Cadmium	0.00007	mg/L		0.00003		E200.8	05/28/14 18:50 / dck	05/27/14 13:15	ICPMS204-B_140528B	41	24696
Calcium	33	mg/L		1		E200.7	05/19/14 12:26 / sld	05/16/14 08:16	ICP2-HE_140519A	42	24565
Copper	0.007	mg/L		0.001		E200.8	05/23/14 01:20 / dck	05/16/14 08:16	ICPMS204-B_140521A	245	24565
Lead	0.0011	mg/L		0.0003		E200.8	05/23/14 01:20 / dck	05/16/14 08:16	ICPMS204-B_140521A	245	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14050278-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 14:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	05/19/14 12:26 / sld	05/16/14 08:16	ICP2-HE_140519A	42	24565
Zinc	ND	mg/L		0.008		E200.8	05/28/14 18:50 / dck	05/27/14 13:15	ICPMS204-B_140528B	41	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SBC P2
Lab ID: H14050278-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 15:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	05/16/14 11:41 / blm		I24 (14410200)_140516A	20	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	100	mg/L		4		A2320 B	05/19/14 11:30 / SR		PHSC_101-H_140519A	34	R97213
Bicarbonate as HCO3	120	mg/L		4		A2320 B	05/19/14 11:30 / SR		PHSC_101-H_140519A	34	R97213
Chloride	21	mg/L		1		E300.0	05/16/14 18:59 / SR		IC102-H_140516A	34	R97231
Sulfate	78	mg/L		1		E300.0	05/16/14 18:59 / SR		IC102-H_140516A	34	R97231
Hardness as CaCO3	168	mg/L		1		A2340 B	05/19/14 12:48 / abb		CALC_140520A	146	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	5.3	mg/L		0.1		A5310 C	05/21/14 16:09 / eli-c		SUB-C186784	18	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:52 / cm		FIA203-HE_140519A	64	R97227
Nitrogen, Nitrate+Nitrite as N	0.20	mg/L		0.05		E353.2	05/16/14 10:19 / cm		FIA203-HE_140516B	76	R97143
Nitrogen, Total	0.85	mg/L		0.05		A4500 N-C	05/20/14 16:54 / cm	05/16/14 09:46	FIA203-HE_140520H	41	24572
Phosphorus, Total as P	0.035	mg/L		0.005		E365.1	05/19/14 16:31 / cm	05/19/14 13:11	FIA202-HE_140519B	60	24599
METALS, DISSOLVED											
Arsenic	0.014	mg/L		0.001		E200.8	05/23/14 01:38 / dck		ICPMS204-B_140521A	249	R97311
Cadmium	0.00005	mg/L		0.00003		E200.8	05/23/14 01:38 / dck		ICPMS204-B_140521A	249	R97311
Copper	0.006	mg/L		0.001		E200.8	05/23/14 01:38 / dck		ICPMS204-B_140521A	249	R97311
Lead	0.0004	mg/L		0.0003		E200.8	05/23/14 01:38 / dck		ICPMS204-B_140521A	249	R97311
Zinc	0.010	mg/L		0.008		E200.8	05/23/14 01:38 / dck		ICPMS204-B_140521A	249	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.014	mg/L		0.001		E200.8	05/23/14 01:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	250	24565
Cadmium	0.00009	mg/L		0.00003		E200.8	05/28/14 18:55 / dck	05/27/14 13:15	ICPMS204-B_140528B	42	24696
Calcium	51	mg/L		1		E200.7	05/19/14 12:48 / sld	05/16/14 08:16	ICP2-HE_140519A	48	24565
Copper	0.008	mg/L		0.001		E200.8	05/23/14 01:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	250	24565
Lead	0.0011	mg/L		0.0003		E200.8	05/23/14 01:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	250	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SBC P2
Lab ID: H14050278-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 15:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	10	mg/L		1		E200.7	05/19/14 12:48 / sld	05/16/14 08:16	ICP2-HE_140519A	48	24565
Zinc	0.017	mg/L		0.008		E200.8	05/28/14 18:55 / dck	05/27/14 13:15	ICPMS204-B_140528B	42	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14050278-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 16:00
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	05/16/14 11:41 / blm		I24 (14410200)_140516A	21	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	05/19/14 11:36 / SR		PHSC_101-H_140519A	36	R97213
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	05/19/14 11:36 / SR		PHSC_101-H_140519A	36	R97213
Chloride	ND	mg/L		1		E300.0	05/16/14 19:10 / SR		IC102-H_140516A	35	R97231
Sulfate	ND	mg/L		1		E300.0	05/16/14 19:10 / SR		IC102-H_140516A	35	R97231
Hardness as CaCO3	ND	mg/L		1		A2340 B	05/19/14 12:52 / abb		CALC_140522A	190	R97309
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.5	mg/L		0.1		A5310 C	05/21/14 16:18 / eli-c		SUB-C186784	19	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 15:53 / cm		FIA203-HE_140519A	65	R97227
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:20 / cm		FIA203-HE_140516B	77	R97143
Nitrogen, Total	0.08	mg/L		0.05		A4500 N-C	05/20/14 16:56 / cm	05/16/14 09:46	FIA203-HE_140520H	42	24572
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	05/19/14 16:32 / cm	05/19/14 13:11	FIA202-HE_140519B	61	24599
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	05/23/14 01:47 / dck		ICPMS204-B_140521A	251	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 01:47 / dck		ICPMS204-B_140521A	251	R97311
Copper	ND	mg/L		0.001		E200.8	05/23/14 01:47 / dck		ICPMS204-B_140521A	251	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 01:47 / dck		ICPMS204-B_140521A	251	R97311
Zinc	0.011	mg/L		0.008		E200.8	05/23/14 01:47 / dck		ICPMS204-B_140521A	251	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	05/23/14 01:52 / dck	05/16/14 08:16	ICPMS204-B_140521A	252	24565
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 01:52 / dck	05/16/14 08:16	ICPMS204-B_140521A	252	24565
Calcium	ND	mg/L		1		E200.7	05/19/14 12:52 / sld	05/16/14 08:16	ICP2-HE_140519A	49	24565
Copper	ND	mg/L		0.001		E200.8	05/23/14 01:52 / dck	05/16/14 08:16	ICPMS204-B_140521A	252	24565
Lead	ND	mg/L		0.0003		E200.8	05/23/14 01:52 / dck	05/16/14 08:16	ICPMS204-B_140521A	252	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14050278-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 16:00
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	05/19/14 12:52 / sld	05/16/14 08:16	ICP2-HE_140519A	49	24565
Zinc	ND	mg/L		0.008		E200.8	05/23/14 01:52 / dck	05/16/14 08:16	ICPMS204-B_140521A	252	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14050278-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 16:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	5	mg/L		1		A2540 D	05/16/14 11:42 / blm		I24 (14410200)_140516A	22	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	56	mg/L		4		A2320 B	05/19/14 11:40 / SR		PHSC_101-H_140519A	38	R97213
Bicarbonate as HCO3	67	mg/L		4		A2320 B	05/19/14 11:40 / SR		PHSC_101-H_140519A	38	R97213
Chloride	ND	mg/L		1		E300.0	05/16/14 19:21 / SR		IC102-H_140516A	36	R97231
Sulfate	12	mg/L		1		E300.0	05/16/14 19:21 / SR		IC102-H_140516A	36	R97231
Hardness as CaCO3	59	mg/L		1		A2340 B	05/19/14 12:56 / abb		CALC_140528A	36	R97464
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.9	mg/L		0.1		A5310 C	05/21/14 16:29 / eli-c		SUB-C186784	20	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 16:43 / cm		FIA203-HE_140519B	12	R97232
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:21 / cm		FIA203-HE_140516B	78	R97143
Nitrogen, Total	0.24	mg/L		0.05		A4500 N-C	05/20/14 16:59 / cm	05/16/14 09:46	FIA203-HE_140520H	45	24572
Phosphorus, Total as P	0.032	mg/L		0.005		E365.1	05/19/14 16:33 / cm	05/19/14 13:11	FIA202-HE_140519B	62	24599
METALS, DISSOLVED											
Arsenic	0.025	mg/L		0.001		E200.8	05/23/14 01:56 / dck		ICPMS204-B_140521A	253	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 01:56 / dck		ICPMS204-B_140521A	253	R97311
Copper	0.005	mg/L		0.001		E200.8	05/23/14 01:56 / dck		ICPMS204-B_140521A	253	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 01:56 / dck		ICPMS204-B_140521A	253	R97311
Zinc	ND	mg/L		0.008		E200.8	05/23/14 01:56 / dck		ICPMS204-B_140521A	253	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.027	mg/L		0.001		E200.8	05/23/14 02:01 / dck	05/16/14 08:16	ICPMS204-B_140521A	254	24565
Cadmium	0.00009	mg/L		0.00003		E200.8	05/28/14 19:25 / dck	05/27/14 13:15	ICPMS204-B_140528B	49	24696
Calcium	17	mg/L		1		E200.7	05/19/14 12:56 / sld	05/16/14 08:16	ICP2-HE_140519A	50	24565
Copper	0.008	mg/L		0.001		E200.8	05/23/14 02:01 / dck	05/16/14 08:16	ICPMS204-B_140521A	254	24565
Lead	0.0012	mg/L		0.0003		E200.8	05/23/14 02:01 / dck	05/16/14 08:16	ICPMS204-B_140521A	254	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14050278-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 16:30 **DateReceived:** 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	4	mg/L		1		E200.7	05/19/14 12:56 / sld	05/16/14 08:16	ICP2-HE_140519A	50	24565
Zinc	ND	mg/L		0.008		E200.8	05/28/14 19:25 / dck	05/27/14 13:15	ICPMS204-B_140528B	49	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14050278-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 16:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	05/16/14 11:43 / blm		I24 (14410200)_140516A	23	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	55	mg/L		4		A2320 B	05/19/14 11:45 / SR		PHSC_101-H_140519A	40	R97213
Bicarbonate as HCO3	67	mg/L		4		A2320 B	05/19/14 11:45 / SR		PHSC_101-H_140519A	40	R97213
Chloride	ND	mg/L		1		E300.0	05/16/14 19:32 / SR		IC102-H_140516A	37	R97231
Sulfate	12	mg/L		1		E300.0	05/16/14 19:32 / SR		IC102-H_140516A	37	R97231
Hardness as CaCO3	58	mg/L		1		A2340 B	05/19/14 13:00 / abb		CALC_140528A	47	R97464
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.0	mg/L		0.1		A5310 C	05/21/14 16:40 / eli-c		SUB-C186784	21	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 16:47 / cm		FIA203-HE_140519B	15	R97232
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:23 / cm		FIA203-HE_140516B	79	R97143
Nitrogen, Total	0.26	mg/L		0.05		A4500 N-C	05/20/14 17:03 / cm	05/16/14 09:46	FIA203-HE_140520H	48	24572
Phosphorus, Total as P	0.031	mg/L		0.005		E365.1	05/19/14 16:34 / cm	05/19/14 13:11	FIA202-HE_140519B	63	24599
METALS, DISSOLVED											
Arsenic	0.025	mg/L		0.001		E200.8	05/23/14 02:19 / dck		ICPMS204-B_140521A	258	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 02:19 / dck		ICPMS204-B_140521A	258	R97311
Copper	0.005	mg/L		0.001		E200.8	05/23/14 02:19 / dck		ICPMS204-B_140521A	258	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 02:19 / dck		ICPMS204-B_140521A	258	R97311
Zinc	0.012	mg/L		0.008		E200.8	05/23/14 02:19 / dck		ICPMS204-B_140521A	258	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.027	mg/L		0.001		E200.8	05/23/14 02:23 / dck	05/16/14 08:16	ICPMS204-B_140521A	259	24565
Cadmium	0.00008	mg/L		0.00003		E200.8	05/28/14 19:29 / dck	05/27/14 13:15	ICPMS204-B_140528B	50	24696
Calcium	17	mg/L		1		E200.7	05/19/14 13:00 / sld	05/16/14 08:16	ICP2-HE_140519A	51	24565
Copper	0.008	mg/L		0.001		E200.8	05/23/14 02:23 / dck	05/16/14 08:16	ICPMS204-B_140521A	259	24565
Lead	0.0012	mg/L		0.0003		E200.8	05/23/14 02:23 / dck	05/16/14 08:16	ICPMS204-B_140521A	259	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14050278-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/14/14 16:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	4	mg/L		1		E200.7	05/19/14 13:00 / sld	05/16/14 08:16	ICP2-HE_140519A	51	24565
Zinc	0.008	mg/L		0.008		E200.8	05/28/14 19:29 / dck	05/27/14 13:15	ICPMS204-B_140528B	50	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14050278-016
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 12:00
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	30	mg/L		1		A2540 D	05/16/14 11:45 / blm		I24 (14410200)_140516A	26	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	05/19/14 11:49 / SR		PHSC_101-H_140519A	42	R97213
Bicarbonate as HCO3	130	mg/L		4		A2320 B	05/19/14 11:49 / SR		PHSC_101-H_140519A	42	R97213
Chloride	4	mg/L		1		E300.0	05/16/14 19:43 / SR		IC102-H_140516A	38	R97231
Sulfate	38	mg/L		1		E300.0	05/16/14 19:43 / SR		IC102-H_140516A	38	R97231
Hardness as CaCO3	142	mg/L		1		A2340 B	05/19/14 13:03 / abb		CALC_140520A	168	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.2	mg/L		0.1		A5310 C	05/21/14 16:51 / eli-c		SUB-C186784	22	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 16:48 / cm		FIA203-HE_140519B	16	R97232
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:24 / cm		FIA203-HE_140516B	80	R97143
Nitrogen, Total	0.31	mg/L		0.05		A4500 N-C	05/20/14 17:04 / cm	05/16/14 09:46	FIA203-HE_140520H	49	24572
Phosphorus, Total as P	0.043	mg/L		0.005		E365.1	05/19/14 16:35 / cm	05/19/14 13:11	FIA202-HE_140519B	64	24599
METALS, DISSOLVED											
Arsenic	0.009	mg/L		0.001		E200.8	05/23/14 02:28 / dck		ICPMS204-B_140521A	260	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 02:28 / dck		ICPMS204-B_140521A	260	R97311
Copper	0.006	mg/L		0.001		E200.8	05/23/14 02:28 / dck		ICPMS204-B_140521A	260	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 02:28 / dck		ICPMS204-B_140521A	260	R97311
Zinc	0.012	mg/L		0.008		E200.8	05/23/14 02:28 / dck		ICPMS204-B_140521A	260	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	05/23/14 02:32 / dck	05/16/14 08:16	ICPMS204-B_140521A	261	24565
Cadmium	0.00017	mg/L		0.00003		E200.8	05/28/14 19:33 / dck	05/27/14 13:15	ICPMS204-B_140528B	51	24696
Calcium	42	mg/L		1		E200.7	05/19/14 13:03 / sld	05/16/14 08:16	ICP2-HE_140519A	52	24565
Copper	0.028	mg/L		0.001		E200.8	05/23/14 02:32 / dck	05/16/14 08:16	ICPMS204-B_140521A	261	24565
Lead	0.0045	mg/L		0.0003		E200.8	05/23/14 02:32 / dck	05/16/14 08:16	ICPMS204-B_140521A	261	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14050278-016
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 12:00
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	05/19/14 13:03 / sld	05/16/14 08:16	ICP2-HE_140519A	52	24565
Mercury	0.000050	mg/L		5E-06		E245.1	05/20/14 12:53 / sbk	05/19/14 08:36	HGCV202-H_140520A	17	24588
Zinc	0.038	mg/L		0.008		E200.8	05/28/14 19:33 / dck	05/27/14 13:15	ICPMS204-B_140528B	51	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14050278-017
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 13:15
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	05/16/14 11:46 / blm		I24 (14410200)_140516A	28	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	05/19/14 11:55 / SR		PHSC_101-H_140519A	44	R97213
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	05/19/14 11:55 / SR		PHSC_101-H_140519A	44	R97213
Chloride	ND	mg/L		1		E300.0	05/16/14 19:54 / SR		IC102-H_140516A	39	R97231
Sulfate	ND	mg/L		1		E300.0	05/16/14 19:54 / SR		IC102-H_140516A	39	R97231
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.4	mg/L		0.1		A5310 C	05/21/14 18:17 / eli-c		SUB-C186784	27	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 16:49 / cm		FIA203-HE_140519B	17	R97232
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:25 / cm		FIA203-HE_140516B	81	R97143
Nitrogen, Total	0.07	mg/L		0.05		A4500 N-C	05/20/14 17:05 / cm	05/16/14 09:46	FIA203-HE_140520H	50	24572
Nitrogen, Total	ND	mg/L	H	0.05		A4500 N-C	06/11/14 16:10 / cm	06/11/14 12:51	FIA203-HE_140612A	13	24900
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	05/19/14 16:36 / cm	05/19/14 13:11	FIA202-HE_140519B	65	24599
-The Total Nitrogen was re-analyzed to confirm the analytical result. Both results are reported.											
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	05/23/14 02:37 / dck		ICPMS204-B_140521A	262	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 02:37 / dck		ICPMS204-B_140521A	262	R97311
Copper	ND	mg/L		0.001		E200.8	05/23/14 02:37 / dck		ICPMS204-B_140521A	262	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 02:37 / dck		ICPMS204-B_140521A	262	R97311
Zinc	0.019	mg/L		0.008		E200.8	05/23/14 02:37 / dck		ICPMS204-B_140521A	262	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	05/23/14 02:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	263	24565
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 02:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	263	24565
Calcium	ND	mg/L		1		E200.7	05/19/14 13:07 / sld	05/16/14 08:16	ICP2-HE_140519A	53	24565
Copper	ND	mg/L		0.001		E200.8	05/23/14 02:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	263	24565
Lead	ND	mg/L		0.0003		E200.8	05/23/14 02:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	263	24565

Report Definitions:
RL - Analyte reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14050278-017
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 13:15
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	05/19/14 13:07 / sld	05/16/14 08:16	ICP2-HE_140519A	53	24565
Mercury	ND	mg/L		5E-06		E245.1	05/20/14 12:57 / sbk	05/19/14 08:36	HGCV202-H_140520A	18	24588
Zinc	ND	mg/L		0.008		E200.8	05/23/14 02:42 / dck	05/16/14 08:16	ICPMS204-B_140521A	263	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14050278-018
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 13:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	16	mg/L		1		A2540 D	05/16/14 11:46 / blm		I24 (14410200)_140516A	29	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	100	mg/L		4		A2320 B	05/19/14 11:59 / SR		PHSC_101-H_140519A	46	R97213
Bicarbonate as HCO3	120	mg/L		4		A2320 B	05/19/14 11:59 / SR		PHSC_101-H_140519A	46	R97213
Chloride	3	mg/L		1		E300.0	05/16/14 20:05 / SR		IC102-H_140516A	40	R97231
Sulfate	9	mg/L		1		E300.0	05/16/14 20:05 / SR		IC102-H_140516A	40	R97231
Hardness as CaCO3	103	mg/L		1		A2340 B	05/19/14 13:11 / abb		CALC_140520A	190	R97241
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.8	mg/L		0.1		A5310 C	05/21/14 18:28 / eli-c		SUB-C186784	28	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 16:50 / cm		FIA203-HE_140519B	18	R97232
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:29 / cm		FIA203-HE_140516B	84	R97143
Nitrogen, Total	0.39	mg/L		0.05		A4500 N-C	05/20/14 17:06 / cm	05/16/14 09:46	FIA203-HE_140520H	51	24572
Phosphorus, Total as P	0.045	mg/L		0.005		E365.1	05/19/14 16:37 / cm	05/19/14 13:11	FIA202-HE_140519B	66	24599
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	05/23/14 02:46 / dck		ICPMS204-B_140521A	264	R97311
Cadmium	0.00004	mg/L		0.00003		E200.8	05/23/14 02:46 / dck		ICPMS204-B_140521A	264	R97311
Copper	0.003	mg/L		0.001		E200.8	05/23/14 02:46 / dck		ICPMS204-B_140521A	264	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 02:46 / dck		ICPMS204-B_140521A	264	R97311
Zinc	0.019	mg/L		0.008		E200.8	05/23/14 02:46 / dck		ICPMS204-B_140521A	264	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.009	mg/L		0.001		E200.8	05/23/14 02:51 / dck	05/16/14 08:16	ICPMS204-B_140521A	265	24565
Cadmium	0.00006	mg/L		0.00003		E200.8	05/28/14 19:38 / dck	05/27/14 13:15	ICPMS204-B_140528B	52	24696
Calcium	28	mg/L		1		E200.7	05/19/14 13:11 / sld	05/16/14 08:16	ICP2-HE_140519A	54	24565
Copper	0.005	mg/L		0.001		E200.8	05/23/14 02:51 / dck	05/16/14 08:16	ICPMS204-B_140521A	265	24565
Lead	0.0042	mg/L		0.0003		E200.8	05/23/14 02:51 / dck	05/16/14 08:16	ICPMS204-B_140521A	265	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14050278-018
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 13:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	05/19/14 13:11 / sld	05/16/14 08:16	ICP2-HE_140519A	54	24565
Mercury	0.00023	mg/L		5E-06		E245.1	05/20/14 13:01 / sbk	05/19/14 08:36	HGCV202-H_140520A	19	24588
Zinc	0.016	mg/L		0.008		E200.8	05/28/14 19:38 / dck	05/27/14 13:15	ICPMS204-B_140528B	52	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14050278-019
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 13:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	16	mg/L		1		A2540 D	05/16/14 11:46 / blm		I24 (14410200)_140516A	30	TSS140516A
INORGANICS											
Alkalinity, Total as CaCO3	100	mg/L		4		A2320 B	05/19/14 12:04 / SR		PHSC_101-H_140519A	48	R97213
Bicarbonate as HCO3	120	mg/L		4		A2320 B	05/19/14 12:04 / SR		PHSC_101-H_140519A	48	R97213
Chloride	3	mg/L		1		E300.0	05/16/14 20:16 / SR		IC102-H_140516A	41	R97231
Sulfate	9	mg/L		1		E300.0	05/16/14 20:16 / SR		IC102-H_140516A	41	R97231
Hardness as CaCO3	115	mg/L		1		A2340 B	05/19/14 13:22 / abb		CALC_140528A	641	R97464
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.9	mg/L		0.1		A5310 C	05/21/14 18:38 / eli-c		SUB-C186784	29	C_R186784
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	05/19/14 16:51 / cm		FIA203-HE_140519B	19	R97232
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	05/16/14 10:32 / cm		FIA203-HE_140516B	87	R97143
Nitrogen, Total	0.46	mg/L		0.05		A4500 N-C	05/20/14 17:08 / cm	05/16/14 09:46	FIA203-HE_140520H	52	24572
Phosphorus, Total as P	0.044	mg/L		0.005		E365.1	05/19/14 16:38 / cm	05/19/14 13:11	FIA202-HE_140519B	67	24599
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	05/23/14 02:55 / dck		ICPMS204-B_140521A	266	R97311
Cadmium	ND	mg/L		0.00003		E200.8	05/23/14 02:55 / dck		ICPMS204-B_140521A	266	R97311
Copper	0.003	mg/L		0.001		E200.8	05/23/14 02:55 / dck		ICPMS204-B_140521A	266	R97311
Lead	ND	mg/L		0.0003		E200.8	05/23/14 02:55 / dck		ICPMS204-B_140521A	266	R97311
Zinc	0.013	mg/L		0.008		E200.8	05/23/14 02:55 / dck		ICPMS204-B_140521A	266	R97311
METALS, TOTAL RECOVERABLE											
Arsenic	0.009	mg/L		0.001		E200.8	05/23/14 03:22 / dck	05/16/14 08:16	ICPMS204-B_140521A	272	24565
Cadmium	0.00006	mg/L		0.00003		E200.8	05/28/14 19:42 / dck	05/27/14 13:15	ICPMS204-B_140528B	53	24696
Calcium	31	mg/L		1		E200.7	05/19/14 13:22 / sld	05/16/14 08:16	ICP2-HE_140519A	57	24565
Copper	0.006	mg/L		0.001		E200.8	05/23/14 03:22 / dck	05/16/14 08:16	ICPMS204-B_140521A	272	24565
Lead	0.0042	mg/L		0.0003		E200.8	05/23/14 03:22 / dck	05/16/14 08:16	ICPMS204-B_140521A	272	24565

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14050278-019
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 05/13/14 13:45
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	05/19/14 13:22 / sld	05/16/14 08:16	ICP2-HE_140519A	57	24565
Mercury	0.00040	mg/L		5E-06		E245.1	05/20/14 13:10 / sbk	05/19/14 08:36	HGCV202-H_140520A	20	24588
Zinc	0.015	mg/L		0.008		E200.8	05/28/14 19:42 / dck	05/27/14 13:15	ICPMS204-B_140528B	53	24696

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Trip Blank
Lab ID: H14050278-020
Matrix: Trip Blank

Project: CFR Monitoring-474374
Collection Date: 05/13/14 09:30
DateReceived: 05/15/14
Report Date: 06/12/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140520wa

Date: *12-Jun-14*

Run ID :Run Order: **HGCV202-H_140520A: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **05/20/14 11:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00019	0.00010	0.0002		94	90	110				

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **HGCV202-H_140520A: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **05/20/14 12:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00019	0.00010	0.0002		93	90	110				

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **HGCV202-H_140520A: 8** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **05/20/14 12:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002		99	95	105				

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24565

Date: *12-Jun-14*

Run ID :Run Order: **ICP2-HE_140519A: 25** SampType: **Method Blank** Lab ID: **MB-24565** Method: **E200.7**
Analysis Date: **05/19/14 11:23** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.05	0.03									
Magnesium	ND	0.01									

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 26** SampType: **Laboratory Control Sample** Lab ID: **LCS-24565** Method: **E200.7**
Analysis Date: **05/19/14 11:27** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.3	1.0	25	0.05392	97	85	115				
Magnesium	24.2	1.0	25		97	85	115				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 28** SampType: **Serial Dilution** Lab ID: **H14050278-001CDIL** Method: **E200.7**
Analysis Date: **05/19/14 11:34** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.8	1.0				0	0	25.76	0.3	10	
Magnesium	6.84	1.0				0	0	6.692	2.1	10	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 29** SampType: **Sample Matrix Spike** Lab ID: **H14050278-001CMS3** Method: **E200.7**
Analysis Date: **05/19/14 11:38** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	50.3	1.0	25	25.76	98	70	130				
Magnesium	31.5	1.0	25	6.692	99	70	130				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24565

Date: *12-Jun-14*

Run ID :Run Order: **ICP2-HE_140519A: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-001CMSD3** Method: **E200.7**
Analysis Date: **05/19/14 11:41** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	48.7	1.0	25	25.76	92	70	130	50.26	3.1	20	
Magnesium	29.8	1.0	25	6.692	93	70	130	31.46	5.3	20	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 45** SampType: **Serial Dilution** Lab ID: **H14050278-011CDIL** Method: **E200.7**
Analysis Date: **05/19/14 12:37** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	31.8	1.0				0	0	32.79	2.9	10	
Magnesium	6.77	1.0				0	0	6.973	3.0	10	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 46** SampType: **Sample Matrix Spike** Lab ID: **H14050278-011CMS3** Method: **E200.7**
Analysis Date: **05/19/14 12:41** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	57.0	1.0	25	32.79	97	70	130				
Magnesium	30.3	1.0	25	6.973	93	70	130				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 47** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-011CMSD3** Method: **E200.7**
Analysis Date: **05/19/14 12:45** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	57.3	1.0	25	32.79	98	70	130	57.02	0.5	20	
Magnesium	30.5	1.0	25	6.973	94	70	130	30.32	0.7	20	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24565

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 207** SampType: **Method Blank** Lab ID: **MB-24565** Method: **E200.8**
Analysis Date: **05/22/14 22:29** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	6E-05									
Cadmium	5E-05	3E-05									
Copper	0.0008	0.0003									
Lead	4E-05	3E-05									
Zinc	0.005	0.001									

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 208** SampType: **Laboratory Control Sample** Lab ID: **LCS-24565** Method: **E200.8**
Analysis Date: **05/22/14 22:33** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.513	0.0010	0.5		103	85	115				
Cadmium	0.253	0.0010	0.25	0.0000542	101	85	115				
Copper	0.512	0.0050	0.5	0.0008224	102	85	115				
Lead	0.521	0.0010	0.5	0.0000423	104	85	115				
Zinc	0.513	0.010	0.5	0.004589	102	85	115				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 211** SampType: **Sample Matrix Spike** Lab ID: **H14050278-001CMS3** Method: **E200.8**
Analysis Date: **05/22/14 22:47** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.526	0.0010	0.5	0.006453	104	70	130				
Cadmium	0.251	0.0010	0.25	0.0001239	100	70	130				
Copper	0.522	0.0050	0.5	0.01699	101	70	130				
Lead	0.532	0.0010	0.5	0.002809	106	70	130				
Zinc	0.528	0.010	0.5	0.02819	100	70	130				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24565

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 212** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-001CMSD3** Method: **E200.8**

Analysis Date: **05/22/14 22:51** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.518	0.0010	0.5	0.006453	102	70	130	0.526	1.6	20	
Cadmium	0.250	0.0010	0.25	0.0001239	100	70	130	0.251	0.6	20	
Copper	0.519	0.0050	0.5	0.01699	100	70	130	0.5217	0.6	20	
Lead	0.520	0.0010	0.5	0.002809	103	70	130	0.5315	2.2	20	
Zinc	0.522	0.010	0.5	0.02819	99	70	130	0.5283	1.1	20	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 246** SampType: **Sample Matrix Spike** Lab ID: **H14050278-011CMS3** Method: **E200.8**

Analysis Date: **05/23/14 01:25** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.552	0.0010	0.5	0.02735	105	70	130				
Cadmium	0.254	0.0010	0.25	0.0000806	102	70	130				
Copper	0.515	0.0050	0.5	0.007306	102	70	130				
Lead	0.526	0.0010	0.5	0.001058	105	70	130				
Zinc	0.516	0.010	0.5	0.01229	101	70	130				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 247** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-011CMSD3** Method: **E200.8**

Analysis Date: **05/23/14 01:29** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.553	0.0010	0.5	0.02735	105	70	130	0.5521	0.3	20	
Cadmium	0.254	0.0010	0.25	0.0000806	102	70	130	0.2539	0.1	20	
Copper	0.515	0.0050	0.5	0.007306	102	70	130	0.5151	0.1	20	
Lead	0.526	0.0010	0.5	0.001058	105	70	130	0.5258	0.0	20	
Zinc	0.518	0.010	0.5	0.01229	101	70	130	0.5165	0.3	20	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24571

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140520H: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-24571** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:19** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	18.8	0.30	18.7	0.05751	100	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A**

Run ID :Run Order: **FIA203-HE_140520H: 12** SampType: **Method Blank** Lab ID: **MB-24571** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:20** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.06	0.02									

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A**

Run ID :Run Order: **FIA203-HE_140520H: 15** SampType: **Sample Matrix Spike** Lab ID: **H14050226-007AMS** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:23** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.18	0.10	1	0.1734	100	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A**

Run ID :Run Order: **FIA203-HE_140520H: 16** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050226-007AMSD** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:25** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.15	0.10	1	0.1734	98	90	110	1.178	2.3	20	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24572

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140520H: 26** SampType: **Laboratory Control Sample** Lab ID: **LCS-24572** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:36** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	19.4	0.30	18.7	0.06509	103	90	110				

Associated samples: **H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 27** SampType: **Method Blank** Lab ID: **MB-24572** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:38** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.07	0.02									

Associated samples: **H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 32** SampType: **Sample Matrix Spike** Lab ID: **H14050278-004AMS** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:44** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.41	0.10	1	0.4079	100	90	110				

Associated samples: **H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 33** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-004AMSD** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:45** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.41	0.10	1	0.4079	100	90	110	1.41	0.3	20	

Associated samples: **H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 46** SampType: **Sample Matrix Spike** Lab ID: **H14050278-014AMS** Method: **A4500 N-C**
Analysis Date: **05/20/14 17:00** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.31	0.10	1	0.2442	106	90	110				

Associated samples: **H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24572

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140520H: 47** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-014AMSD** Method: **A4500 N-C**

Analysis Date: **05/20/14 17:02** Units: **mg/L** **Prep Info:** Prep Date: **5/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.29	0.10	1	0.2442	**105**	90	110	1.309	**1.2**	20	

Associated samples: **H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24588

Date: *12-Jun-14*

Run ID :Run Order: **HGCV202-H_140520A: 10** SampType: **Method Blank** Lab ID: **MB-24588** Method: **E245.1**
Analysis Date: **05/20/14 12:22** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	1E-06									

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **HGCV202-H_140520A: 12** SampType: **Laboratory Control Sample** Lab ID: **LCS-24588** Method: **E245.1**
Analysis Date: **05/20/14 12:32** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00015	0.00010	0.00015		100	90	110				

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **HGCV202-H_140520A: 15** SampType: **Sample Matrix Spike** Lab ID: **H14050246-011AMS** Method: **E245.1**
Analysis Date: **05/20/14 12:44** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015		92	70	130				

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **HGCV202-H_140520A: 16** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050246-011AMSD** Method: **E245.1**
Analysis Date: **05/20/14 12:49** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015		91	70	130	0.0001377	1.2	20	

Associated samples: **H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24599

Date: *12-Jun-14*

Run ID :Run Order: **FIA202-HE_140519B: 39** SampType: **Laboratory Control Sample** Lab ID: **LCS-24599** Method: **E365.1**
Analysis Date: **05/19/14 16:09** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.379	0.010	0.4		95	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 40** SampType: **Method Blank** Lab ID: **MB-24599** Method: **E365.1**
Analysis Date: **05/19/14 16:10** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 44** SampType: **Sample Matrix Spike** Lab ID: **H14050278-001DMS** Method: **E365.1**
Analysis Date: **05/19/14 16:14** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.214	0.010	0.2	0.03598	89	90	110				S

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 45** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-001DMSD** Method: **E365.1**
Analysis Date: **05/19/14 16:15** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.222	0.010	0.2	0.03598	93	90	110	0.2141	3.8	20	

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 58** SampType: **Sample Matrix Spike** Lab ID: **H14050278-011DMS** Method: **E365.1**
Analysis Date: **05/19/14 16:28** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.209	0.010	0.2	0.03028	89	90	110				S

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24599

Date: *12-Jun-14*

Run ID :Run Order: **FIA202-HE_140519B: 58** SampType: **Sample Matrix Spike** Lab ID: **H14050278-011DMS** Method: **E365.1**

Analysis Date: **05/19/14 16:28** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 59** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-011DMSD** Method: **E365.1**

Analysis Date: **05/19/14 16:30** Units: **mg/L** **Prep Info:** Prep Date: **5/19/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.208	0.010	0.2	0.03028	89	90	110	0.2092	0.6	20	S

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24696

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140528B: 20** SampType: **Method Blank** Lab ID: **MB-24696** Method: **E200.8**
Analysis Date: **05/28/14 17:20** Units: **mg/L** **Prep Info:** Prep Date: **5/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	3E-05									
Zinc	ND	0.001									

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 21** SampType: **Laboratory Control Sample** Lab ID: **LCS-24696** Method: **E200.8**
Analysis Date: **05/28/14 17:24** Units: **mg/L** **Prep Info:** Prep Date: **5/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.265	0.0010	0.25		106	85	115				
Zinc	0.510	0.010	0.5		102	85	115				

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 43** SampType: **Sample Matrix Spike** Lab ID: **H14050278-012CMS3** Method: **E200.8**
Analysis Date: **05/28/14 18:59** Units: **mg/L** **Prep Info:** Prep Date: **5/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.262	0.0010	0.25	0.00008599	105	70	130				
Zinc	0.509	0.010	0.5	0.01736	98	70	130				

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 44** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-012CMSD3** Method: **E200.8**
Analysis Date: **05/28/14 19:03** Units: **mg/L** **Prep Info:** Prep Date: **5/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.264	0.0010	0.25	0.00008599	106	70	130	0.2621	0.9	20	
Zinc	0.518	0.010	0.5	0.01736	100	70	130	0.5088	1.7	20	

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24721

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140530B: 20** SampType: **Method Blank** Lab ID: **MB-24721** Method: **E200.8**
Analysis Date: **05/31/14 05:11** Units: **mg/L** **Prep Info:** Prep Date: **5/29/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	3E-05									
Zinc	0.001	0.001									

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Run ID :Run Order: **ICPMS204-B_140530B: 21** SampType: **Laboratory Control Sample** Lab ID: **LCS-24721** Method: **E200.8**
Analysis Date: **05/31/14 05:15** Units: **mg/L** **Prep Info:** Prep Date: **5/29/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.258	0.0010	0.25		103	85	115				
Zinc	0.478	0.010	0.5	0.001418	95	85	115				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Run ID :Run Order: **ICPMS204-B_140530B: 28** SampType: **Sample Matrix Spike** Lab ID: **H14050278-004CMS3** Method: **E200.8**
Analysis Date: **05/31/14 05:46** Units: **mg/L** **Prep Info:** Prep Date: **5/29/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.520	0.0010	0.5	0.000177	104	70	130				
Zinc	0.984	0.010	1	0.03398	95	70	130				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Run ID :Run Order: **ICPMS204-B_140530B: 29** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-004CMSD3** Method: **E200.8**
Analysis Date: **05/31/14 05:50** Units: **mg/L** **Prep Info:** Prep Date: **5/29/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.528	0.0010	0.5	0.000177	106	70	130	0.5202	1.6	20	
Zinc	0.986	0.010	1	0.03398	95	70	130	0.9844	0.1	20	

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24779

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140609A: 123** SampType: **Method Blank** Lab ID: **MB-24779** Method: **E200.8**
Analysis Date: **06/09/14 20:56** Units: **mg/L** **Prep Info:** Prep Date: **6/3/2014** Prep Method: **E200.2**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	3E-05									

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140609A: 124** SampType: **Laboratory Control Sample** Lab ID: **LCS-24779** Method: **E200.8**
Analysis Date: **06/09/14 21:01** Units: **mg/L** **Prep Info:** Prep Date: **6/3/2014** Prep Method: **E200.2**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.261	0.0010	0.25		104	85	115				

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140609A: 128** SampType: **Sample Matrix Spike** Lab ID: **H14060005-001AMS3** Method: **E200.8**
Analysis Date: **06/09/14 21:18** Units: **mg/L** **Prep Info:** Prep Date: **6/3/2014** Prep Method: **E200.2**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.241	0.0010	0.25	0.0000963	96	70	130				

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140609A: 129** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060005-001AMSD3** Method: **E200.8**
Analysis Date: **06/09/14 21:22** Units: **mg/L** **Prep Info:** Prep Date: **6/3/2014** Prep Method: **E200.2**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.229	0.0010	0.25	0.0000963	92	70	130	0.241	5.1	20	

Associated samples: **H14050278-008C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24900

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140612A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-24900** Method: **A4500 N-C**
Analysis Date: **06/11/14 16:08** Units: **mg/L** **Prep Info:** Prep Date: **6/11/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	17.9	0.30	18.7		96	90	110				

Associated samples: **H14050278-017A**

Run ID :Run Order: **FIA203-HE_140612A: 12** SampType: **Method Blank** Lab ID: **MB-24900** Method: **A4500 N-C**
Analysis Date: **06/11/14 16:09** Units: **mg/L** **Prep Info:** Prep Date: **6/11/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14050278-017A**

Run ID :Run Order: **FIA203-HE_140612A: 14** SampType: **Sample Duplicate** Lab ID: **H14050278-017Adup** Method: **A4500 N-C**
Analysis Date: **06/11/14 16:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.10								20	

Associated samples: **H14050278-017A**

Run ID :Run Order: **FIA203-HE_140612A: 16** SampType: **Sample Matrix Spike** Lab ID: **H14060106-006AMS** Method: **A4500 N-C**
Analysis Date: **06/11/14 16:14** Units: **mg/L** **Prep Info:** Prep Date: **6/11/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	7.22	0.15	5	2.46	95	90	110				

Associated samples: **H14050278-017A**

Run ID :Run Order: **FIA203-HE_140612A: 17** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060106-006AMSD** Method: **A4500 N-C**
Analysis Date: **06/11/14 16:15** Units: **mg/L** **Prep Info:** Prep Date: **6/11/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	7.63	0.15	5	2.46	103	90	110	7.225	5.5	20	

Associated samples: **H14050278-017A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R186784

Date: *12-Jun-14*

Run ID :Run Order: **SUB-C186784: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-7684** Method: **A5310 C**
Analysis Date: **05/21/14 11:28** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2013** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.95	0.50	10		99	90	110				

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 3** SampType: **Method Blank** Lab ID: **MBLK** Method: **A5310 C**
Analysis Date: **05/21/14 11:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	ND	0.07									

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 10** SampType: **Sample Matrix Spike** Lab ID: **C14050621-017DMS** Method: **A5310 C**
Analysis Date: **05/21/14 14:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.9	0.50	5	5.758	103	85	115				

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 11** SampType: **Sample Matrix Spike Duplicate** Lab ID: **C14050621-017DMSD** Method: **A5310 C**
Analysis Date: **05/21/14 14:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.9	0.50	5	5.758	103	85	115	10.93	0.0	10	

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 23** SampType: **Sample Matrix Spike** Lab ID: **H14050278-007E** Method: **A5310 C**
Analysis Date: **05/21/14 17:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.95	0.50	5	3.795	103	85	115				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R186784

Date: *12-Jun-14*

Run ID :Run Order: **SUB-C186784: 23** SampType: **Sample Matrix Spike** Lab ID: **H14050278-007E** Method: **A5310 C**
Analysis Date: **05/21/14 17:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 24** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-007E** Method: **A5310 C**
Analysis Date: **05/21/14 17:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.95	0.50	5	3.795	103	85	115	8.946	0.0	10	

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 25** SampType: **Laboratory Control Sample** Lab ID: **LCS-7684** Method: **A5310 C**
Analysis Date: **05/21/14 17:25** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2013** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.0	0.50	10		100	90	110				

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 30** SampType: **Sample Matrix Spike** Lab ID: **H14050278-017E** Method: **A5310 C**
Analysis Date: **05/21/14 18:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	5.47	0.50	5	0.4127	101	85	115				

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Run ID :Run Order: **SUB-C186784: 31** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-017E** Method: **A5310 C**
Analysis Date: **05/21/14 19:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	5.52	0.50	5	0.4127	102	85	115	5.474	0.9	10	

Associated samples: **H14050278-001E, H14050278-002E, H14050278-003E, H14050278-004E, H14050278-005E, H14050278-006E, H14050278-007E, H14050278-008E, H14050278-009E, H14050278-010E, H14050278-011E, H14050278-012E, H14050278-013E, H14050278-014E, H14050278-015E, H14050278-016E, H14050278-017E, H14050278-018E, H14050278-019E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97143

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140516B: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **05/16/14 08:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.957	0.010	1		96	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **05/16/14 08:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.951	0.011	1		95	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **05/16/14 09:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.00267	0.010				0	0				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **05/16/14 09:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	ND	0.001									

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 55** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **05/16/14 09:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.464	0.010	0.5		93	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97143

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140516B: 55** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **05/16/14 09:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 57** SampType: **Sample Matrix Spike** Lab ID: **H14050269-002DMS** Method: **E353.2**
Analysis Date: **05/16/14 09:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.925	0.011	1		92	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 58** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050269-002DMSD** Method: **E353.2**
Analysis Date: **05/16/14 09:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.919	0.011	1		92	90	110	0.9249	0.7	20	

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 69** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **05/16/14 10:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.464	0.010	0.5		93	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 71** SampType: **Sample Matrix Spike** Lab ID: **H14050278-008DMS** Method: **E353.2**
Analysis Date: **05/16/14 10:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.983	0.011	1	0.0654	92	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97143

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140516B: 72** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-008DMSD** Method: **E353.2**
Analysis Date: **05/16/14 10:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.978	0.011	1	0.0654	91	90	110	0.9826	0.5	20	

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 83** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **05/16/14 10:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.454	0.010	0.5		91	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 85** SampType: **Sample Matrix Spike** Lab ID: **H14050278-018DMS** Method: **E353.2**
Analysis Date: **05/16/14 10:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.932	0.011	1	0.01301	92	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140516B: 86** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-018DMSD** Method: **E353.2**
Analysis Date: **05/16/14 10:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.929	0.011	1	0.01301	92	90	110	0.9322	0.3	20	

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97213

Date: *12-Jun-14*

Run ID :Run Order: **PHSC_101-H_140519A: 6** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **05/19/14 09:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	3	0.9									

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **PHSC_101-H_140519A: 8** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **05/19/14 09:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	590	4.0	600	2.75	98	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **PHSC_101-H_140519A: 11** SampType: **Sample Duplicate** Lab ID: **H14050278-001ADUP** Method: **A2320 B**
Analysis Date: **05/19/14 10:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	78	4.0						77.45	1.0	10	
Bicarbonate as HCO3	95	4.0						93.88	1.0	10	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **PHSC_101-H_140519A: 15** SampType: **Sample Matrix Spike** Lab ID: **H14050278-002AMS** Method: **A2320 B**
Analysis Date: **05/19/14 10:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	720	4.0	600	139.3	97	80	120				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **PHSC_101-H_140519A: 52** SampType: **Sample Duplicate** Lab ID: **H14050289-001ADUP** Method: **A2320 B**
Analysis Date: **05/19/14 12:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	280	4.0						282.8	0.1	10	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97213

Date: *12-Jun-14*

Run ID :Run Order: **PHSC_101-H_140519A: 52** SampType: **Sample Duplicate** Lab ID: **H14050289-001ADUP** Method: **A2320 B**

Analysis Date: **05/19/14 12:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bicarbonate as HCO3	340	4.0						344.3	0.1	10	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97226

Date: *12-Jun-14*

Run ID :Run Order: **ICP2-HE_140519A: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **05/19/14 10:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	39.2	1.0	40		98	95	105				
Magnesium	39.7	1.0	40		99	95	105				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **05/19/14 10:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.6	1.0	25		99	95	105				
Magnesium	24.6	1.0	25		98	95	105				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **05/19/14 10:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	444	1.0	500		89	80	120				
Magnesium	492	1.0	500		98	80	120				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **05/19/14 10:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	440	1.0	500		88	80	120				
Magnesium	485	1.0	500		97	80	120				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97226

Date: *12-Jun-14*

Run ID :Run Order: **ICP2-HE_140519A: 19** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **05/19/14 11:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.3	1.0	25		97	90	110				
Magnesium	24.2	1.0	25		97	90	110				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **05/19/14 11:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.3	1.0	25		97	90	110				
Magnesium	24.1	1.0	25		96	90	110				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 43** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **05/19/14 12:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.9	1.0	25		100	90	110				
Magnesium	23.3	1.0	25		93	90	110				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICP2-HE_140519A: 55** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **05/19/14 13:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	26.7	1.0	25		107	90	110				
Magnesium	25.2	1.0	25		101	90	110				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C, H14050278-011C, H14050278-012C, H14050278-013C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-017C, H14050278-018C, H14050278-019C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97227

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140519A: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **05/19/14 14:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	14.4	0.50	15.2		95	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Run ID :Run Order: **FIA203-HE_140519A: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **05/19/14 14:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.08	0.055	1		108	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Run ID :Run Order: **FIA203-HE_140519A: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **05/19/14 14:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.0655	0.050				0	0				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Run ID :Run Order: **FIA203-HE_140519A: 38** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **05/19/14 15:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.458	0.050	0.5		92	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Run ID :Run Order: **FIA203-HE_140519A: 52** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **05/19/14 15:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.451	0.050	0.5		90	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97227

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140519A: 55** SampType: **Sample Matrix Spike** Lab ID: **H14050278-004DMS** Method: **E350.1**

Analysis Date: **05/19/14 15:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.02	0.055	1		102	80	120				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Run ID :Run Order: **FIA203-HE_140519A: 56** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-004DMSD** Method: **E350.1**

Analysis Date: **05/19/14 15:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.04	0.055	1		104	80	120	1.018	2.4	10	

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97231

Date: *12-Jun-14*

Run ID :Run Order: **IC102-H_140516A: 12** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**

Analysis Date: **05/16/14 14:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		105	90	110				
Sulfate	430	1.0	400		106	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 13** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**

Analysis Date: **05/16/14 15:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.02	0.008									
Sulfate	0.1	0.08									

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 14** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**

Analysis Date: **05/16/14 15:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	49	1.0	50	0.022	98	90	110				
Sulfate	200	1.0	200	0.123	101	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 15** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV051614-1** Method: **E300.0**

Analysis Date: **05/16/14 15:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100		104	90	110				
Sulfate	430	1.0	400		106	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97231

Date: *12-Jun-14*

Run ID :Run Order: **IC102-H_140516A: 18** SampType: **Sample Matrix Spike** Lab ID: **H14050278-001AMS** Method: **E300.0**
Analysis Date: **05/16/14 16:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52	1.0	50	2.383	100	90	110				
Sulfate	230	1.0	200	19.54	105	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 19** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-001AMSD** Method: **E300.0**
Analysis Date: **05/16/14 16:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53	1.0	50	2.383	100	90	110	52.47	0.2	20	
Sulfate	230	1.0	200	19.54	105	90	110	228.8	0.6	20	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 29** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV051614-2** Method: **E300.0**
Analysis Date: **05/16/14 18:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100		104	90	110				
Sulfate	430	1.0	400		107	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 32** SampType: **Sample Matrix Spike** Lab ID: **H14050278-011AMS** Method: **E300.0**
Analysis Date: **05/16/14 18:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52	1.0	50	1.888	100	90	110				
Sulfate	260	1.0	200	50.84	107	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97231

Date: *12-Jun-14*

Run ID :Run Order: **IC102-H_140516A: 33** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-011AMSD** Method: **E300.0**

Analysis Date: **05/16/14 18:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52	1.0	50	1.888	100	90	110	51.83	0.5	20	
Sulfate	270	1.0	200	50.84	108	90	110	264.9	0.4	20	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 46** SampType: **Sample Matrix Spike** Lab ID: **H14050289-001AMS** Method: **E300.0**

Analysis Date: **05/16/14 21:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	65	1.0	50	12.62	105	90	110				
Sulfate	340	1.0	200	125.8	109	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **IC102-H_140516A: 47** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050289-001AMSD** Method: **E300.0**

Analysis Date: **05/16/14 21:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	65	1.0	50	12.62	105	90	110	64.91	0.0	20	
Sulfate	350	1.0	200	125.8	110	90	110	343.4	0.7	20	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97232

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140519B: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **05/19/14 16:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	14.3	0.50	15.2		94	90	110				

Associated samples: **H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140519B: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **05/19/14 16:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.04	0.055	1		104	90	110				

Associated samples: **H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140519B: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **05/19/14 16:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.457	0.050	0.5		91	90	110				

Associated samples: **H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140519B: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **05/19/14 16:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.0519	0.050				0	0				

Associated samples: **H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140519B: 13** SampType: **Sample Matrix Spike** Lab ID: **H14050278-014DMS** Method: **E350.1**
Analysis Date: **05/19/14 16:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.01	0.055	1		101	80	120				

Associated samples: **H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA203-HE_140519B: 14** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-014DMSD** Method: **E350.1**
Analysis Date: **05/19/14 16:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.02	0.055	1		102	80	120	1.006	1.3	10	

Associated samples: **H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97233

Date: *12-Jun-14*

Run ID :Run Order: **FIA202-HE_140519B: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**
Analysis Date: **05/19/14 15:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.238	0.010	0.25		95	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E365.1**
Analysis Date: **05/19/14 15:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.00140	0.010				0	0				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 42** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **05/19/14 16:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.107	0.010	0.1		107	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Run ID :Run Order: **FIA202-HE_140519B: 56** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **05/19/14 16:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.107	0.010	0.1		107	90	110				

Associated samples: **H14050278-001D, H14050278-002D, H14050278-003D, H14050278-004D, H14050278-005D, H14050278-006D, H14050278-007D, H14050278-008D, H14050278-009D, H14050278-010D, H14050278-011D, H14050278-012D, H14050278-013D, H14050278-014D, H14050278-015D, H14050278-016D, H14050278-017D, H14050278-018D, H14050278-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97272

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140520H: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.492	0.10	0.5		98	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.0369	0.10				0	0				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 29** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.474	0.10	0.5		95	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **FIA203-HE_140520H: 44** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**
Analysis Date: **05/20/14 16:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.474	0.10	0.5		95	90	110				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97311

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 11** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **05/22/14 00:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0607	0.0050	0.06		101	90	110				
Cadmium	0.0313	0.0010	0.03		104	90	110				
Copper	0.0629	0.010	0.06		105	90	110				
Lead	0.0614	0.010	0.06		102	90	110				
Zinc	0.0626	0.010	0.06		104	90	110				

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 12** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **05/22/14 00:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000205	0.0050									
Cadmium	0.000459	0.0010									
Copper	0.000375	0.010									
Lead	0.000262	0.010									
Zinc	0.00157	0.010									

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 13** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **05/22/14 00:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0108	0.0050	0.01		108	70	130				
Cadmium	0.00964	0.0010	0.01		96	70	130				
Copper	0.0210	0.010	0.02		105	70	130				
Lead	0.000354	0.010				0	0				
Zinc	0.0119	0.010	0.01		119	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97311

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 13** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **05/22/14 00:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 119** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**

Analysis Date: **05/22/14 08:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0483	0.0050	0.05		97	85	115				
Cadmium	0.0470	0.0010	0.05		94	85	115				
Copper	0.0519	0.010	0.05	0.003869	96	85	115				
Lead	0.0486	0.010	0.05	0.0000087	97	85	115				
Zinc	0.0507	0.010	0.05	0.001293	99	85	115				

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Run ID :Run Order: **ICPMS204-B_140521A: 168** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**

Analysis Date: **05/22/14 13:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									
Copper	0.0001	3E-05									
Lead	3E-05	8E-06									
Zinc	0.0008	0.0003									

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Run ID :Run Order: **ICPMS204-B_140521A: 193** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **05/22/14 21:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0600	0.0050	0.06		100	90	110				
Cadmium	0.0315	0.0010	0.03		105	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97311

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 193** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **05/22/14 21:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.0615	0.010	0.06		103	90	110				
Lead	0.0602	0.010	0.06		100	90	110				
Zinc	0.0630	0.010	0.06		105	90	110				

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 194** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **05/22/14 21:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000227	0.0050									
Cadmium	0.000369	0.0010									
Copper	0.000350	0.010									
Lead	0.000232	0.010									
Zinc	0.00148	0.010									

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 195** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **05/22/14 21:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0103	0.0050	0.01		103	70	130				
Cadmium	0.00958	0.0010	0.01		96	70	130				
Copper	0.0200	0.010	0.02		100	70	130				
Lead	0.000325	0.010				0	0				
Zinc	0.0112	0.010	0.01		112	70	130				

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97311

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 201** SampType: **Sample Matrix Spike** Lab ID: **H14050275-001BMS** Method: **E200.8**

Analysis Date: **05/22/14 22:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0546	0.0010	0.05	0.0001745	109	70	130				
Cadmium	0.0482	0.0010	0.05	0.0000108	96	70	130				
Copper	0.0506	0.0050	0.05	0.0008594	99	70	130				
Lead	0.0516	0.0010	0.05	0.0000346	103	70	130				
Zinc	0.0578	0.010	0.05	0.009205	97	70	130				

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Run ID :Run Order: **ICPMS204-B_140521A: 202** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050275-001BMSD** Method: **E200.8**

Analysis Date: **05/22/14 22:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0531	0.0010	0.05	0.0001745	106	70	130	0.05462	2.8	20	
Cadmium	0.0468	0.0010	0.05	0.0000108	94	70	130	0.04819	2.9	20	
Copper	0.0494	0.0050	0.05	0.0008594	97	70	130	0.0506	2.4	20	
Lead	0.0499	0.0010	0.05	0.0000346	100	70	130	0.05159	3.3	20	
Zinc	0.0568	0.010	0.05	0.009205	95	70	130	0.05784	1.7	20	

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Run ID :Run Order: **ICPMS204-B_140521A: 235** SampType: **Sample Matrix Spike** Lab ID: **H14050278-009BMS** Method: **E200.8**

Analysis Date: **05/23/14 00:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0577	0.0010	0.05	0.00598	104	70	130				
Cadmium	0.0502	0.0010	0.05	0.0000279	100	70	130				
Copper	0.0548	0.0050	0.05	0.003856	102	70	130				
Lead	0.0504	0.0010	0.05	0.0000427	101	70	130				
Zinc	0.0565	0.010	0.05	0.006184	101	70	130				

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97311

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 236** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-009BMSD** Method: **E200.8**

Analysis Date: **05/23/14 00:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0570	0.0010	0.05	0.00598	102	70	130	0.05774	1.4	20	
Cadmium	0.0492	0.0010	0.05	0.0000279	98	70	130	0.05022	2.2	20	
Copper	0.0539	0.0050	0.05	0.003856	100	70	130	0.0548	1.7	20	
Lead	0.0496	0.0010	0.05	0.0000427	99	70	130	0.05037	1.5	20	
Zinc	0.0570	0.010	0.05	0.006184	102	70	130	0.05648	0.9	20	

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Run ID :Run Order: **ICPMS204-B_140521A: 267** SampType: **Sample Matrix Spike** Lab ID: **H14050278-019BMS** Method: **E200.8**

Analysis Date: **05/23/14 03:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0588	0.0010	0.05	0.006409	105	70	130				
Cadmium	0.0510	0.0010	0.05		102	70	130				
Copper	0.0541	0.0050	0.05	0.003003	102	70	130				
Lead	0.0501	0.0010	0.05	0.0002444	100	70	130				
Zinc	0.0658	0.010	0.05	0.0127	106	70	130				

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Run ID :Run Order: **ICPMS204-B_140521A: 268** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14050278-019BMSD** Method: **E200.8**

Analysis Date: **05/23/14 03:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0590	0.0010	0.05	0.006409	105	70	130	0.05877	0.3	20	
Cadmium	0.0500	0.0010	0.05		100	70	130	0.051	1.9	20	
Copper	0.0545	0.0050	0.05	0.003003	103	70	130	0.05411	0.8	20	
Lead	0.0493	0.0010	0.05	0.0002444	98	70	130	0.05007	1.5	20	
Zinc	0.0649	0.010	0.05	0.0127	104	70	130	0.06585	1.4	20	

Associated samples: **H14050278-001B, H14050278-002B, H14050278-003B, H14050278-004B, H14050278-005B, H14050278-006B, H14050278-007B, H14050278-008B, H14050278-009B, H14050278-010B, H14050278-011B, H14050278-012B, H14050278-013B, H14050278-014B, H14050278-015B, H14050278-016B, H14050278-017B, H14050278-018B, H14050278-019B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97311

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140521A: 389** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **05/23/14 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000184	0.0050									
Cadmium	0.000270	0.0010									
Copper	0.000383	0.010									
Lead	0.000224	0.010									
Zinc	0.00141	0.010									

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140521A: 390** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **05/23/14 12:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0105	0.0050	0.01		105	70	130				
Cadmium	0.00928	0.0010	0.01		93	70	130				
Copper	0.0202	0.010	0.02		101	70	130				
Lead	0.000317	0.010				0	0				
Zinc	0.0111	0.010	0.01		111	70	130				

Associated samples: **H14050278-001B, H14050278-001C, H14050278-002B, H14050278-002C, H14050278-003B, H14050278-003C, H14050278-004B, H14050278-004C, H14050278-005B, H14050278-005C, H14050278-006B, H14050278-006C, H14050278-007B, H14050278-007C, H14050278-008B, H14050278-008C, H14050278-009B, H14050278-009C, H14050278-010B, H14050278-010C, H14050278-011B, H14050278-011C, H14050278-012B, H14050278-012C, H14050278-013B, H14050278-013C, H14050278-014B, H14050278-014C, H14050278-015B, H14050278-015C, H14050278-016B, H14050278-016C, H14050278-017B, H14050278-017C, H14050278-018B, H14050278-018C, H14050278-019B, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97518

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140528B: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **05/28/14 16:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0321	0.0010	0.03		107	90	110				
Zinc	0.0624	0.010	0.06		104	90	110				

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **05/28/14 16:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.000310	0.0010									
Zinc	0.00159	0.010									

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **05/28/14 16:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0100	0.0010	0.01		101	70	130				
Zinc	0.0121	0.010	0.01		121	70	130				

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 129** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **05/29/14 01:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0319	0.0010	0.03		106	90	110				
Zinc	0.0633	0.010	0.06		106	90	110				

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Run ID :Run Order: **ICPMS204-B_140528B: 130** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **05/29/14 01:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.000210	0.0010									
Zinc	0.00171	0.010									

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97518

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140528B: 131** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **05/29/14 01:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0100	0.0010	0.01		100	70	130				
Zinc	0.0117	0.010	0.01		117	70	130				

Associated samples: **H14050278-002C, H14050278-011C, H14050278-012C, H14050278-014C, H14050278-015C, H14050278-016C, H14050278-018C, H14050278-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97637

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140530B: 9** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **05/31/14 04:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0323	0.0010	0.03		108	90	110				
Zinc	0.0627	0.010	0.06		105	90	110				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Run ID :Run Order: **ICPMS204-B_140530B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **05/31/14 04:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.000270	0.0010									
Zinc	0.00167	0.010									

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Run ID :Run Order: **ICPMS204-B_140530B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **05/31/14 04:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.00990	0.0010	0.01		99	70	130				
Zinc	0.0117	0.010	0.01		117	70	130				

Associated samples: **H14050278-001C, H14050278-002C, H14050278-003C, H14050278-004C, H14050278-005C, H14050278-006C, H14050278-007C, H14050278-008C, H14050278-009C, H14050278-010C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97776

Date: *12-Jun-14*

Run ID :Run Order: **ICPMS204-B_140605A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **06/05/14 12:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0317	0.0010	0.03		106	90	110				

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140605A: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **06/05/14 12:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.000270	0.0010									

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140605A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **06/05/14 12:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.00931	0.0010	0.01		93	70	130				

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140605A: 126** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **06/05/14 21:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.0319	0.0010	0.03		106	90	110				

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140605A: 127** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **06/05/14 21:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.000287	0.0010									

Associated samples: **H14050278-008C**

Run ID :Run Order: **ICPMS204-B_140605A: 128** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **06/05/14 21:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.00938	0.0010	0.01		94	70	130				

Associated samples: **H14050278-008C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97938

Date: *12-Jun-14*

Run ID :Run Order: **FIA203-HE_140612A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **06/11/14 16:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.476	0.10	0.5		95	90	110				

Associated samples: **H14050278-017A**

Run ID :Run Order: **FIA203-HE_140612A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **06/11/14 16:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.0496	0.10				0	0				

Associated samples: **H14050278-017A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140516A

Date: *12-Jun-14*

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 1** SampType: **Method Blank** Lab ID: **MB-1_140516A** Method: **A2540 D**
Analysis Date: **05/16/14 11:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-2_140516A** Method: **A2540 D**
Analysis Date: **05/16/14 11:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	90.0	10	100		90	80	120				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 4** SampType: **Sample Duplicate** Lab ID: **H14050268-001B DUP** Method: **A2540 D**
Analysis Date: **05/16/14 11:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	74.0	10						68	8.5	5	R

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 1** SampType: **Sample Duplicate** Lab ID: **H14050278-006A DUP** Method: **A2540 D**
Analysis Date: **05/16/14 11:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	10.0	10						8		5	

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 2** SampType: **Method Blank** Lab ID: **MB-25_140516A** Method: **A2540 D**
Analysis Date: **05/16/14 11:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14050278
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140516A

Date: *12-Jun-14*

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 2** SampType: **Method Blank** Lab ID: **MB-25_140516A** Method: **A2540 D**

Analysis Date: **05/16/14 11:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-26_140516A** Method: **A2540 D**

Analysis Date: **05/16/14 11:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	83.0	10	100		83	80	120				

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140516A: 2** SampType: **Sample Duplicate** Lab ID: **H14050278-016A DUP** Method: **A2540 D**

Analysis Date: **05/16/14 11:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	32.0	10						30	6.5	5	R

Associated samples: **H14050278-001A, H14050278-002A, H14050278-003A, H14050278-004A, H14050278-005A, H14050278-006A, H14050278-007A, H14050278-008A, H14050278-009A, H14050278-010A, H14050278-011A, H14050278-012A, H14050278-013A, H14050278-014A, H14050278-015A, H14050278-016A, H14050278-017A, H14050278-018A, H14050278-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

June 02, 2014

Energy Laboratories, Inc.
ATTN: Jonathan Dee Hager
PO Box 5688
Helena MT 59604
jhager@energylab.com

RE: Project ENL-HL1201 Client Project: Silver Bow / Clark Fork

Dear Jonathan Dee Hager,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on May 21, 2014. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data is reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12929

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
CRM	certified reference material	**RPD**	relative percent difference
D	dissolved fraction	**RSD**	relative standard deviation
DUP	duplicate	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction
IBL	instrument blank		

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12929

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
H14050278-016F	1421019-01	Water	Sample	05/13/2014	05/21/2014
H14050278-017F	1421019-02	Water	Sample	05/13/2014	05/21/2014
H14050278-018F	1421019-03	Water	Sample	05/13/2014	05/21/2014
H14050278-019F	1421019-04	Water	Sample	05/13/2014	05/21/2014
H14050278-020F	1421019-05	DIW	Trip Blank	05/13/2014	05/21/2014

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	05/27/2014	05/29/2014	B140925	1400468

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12929

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
H14050278-016F										
1421019-01	MeHg	Water	T	0.343		0.020	0.049	ng/L	B140925	1400468
H14050278-017F										
1421019-02	MeHg	Water	T	0.020	U	0.020	0.050	ng/L	B140925	1400468
H14050278-018F										
1421019-03	MeHg	Water	T	0.807		0.020	0.050	ng/L	B140925	1400468
H14050278-019F										
1421019-04	MeHg	Water	T	0.839		0.020	0.050	ng/L	B140925	1400468
H14050278-020F										
1421019-05	MeHg	DIW	T	0.020	U	0.020	0.050	ng/L	B140925	1400468

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12929

Accuracy & Precision Summary

Batch: B140925
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140925-BS1	**Laboratory Fortified Blank (1421026)**						
	MeHg		1.000	0.802	ng/L	80% 67-133	
B140925-BS2	**Laboratory Fortified Blank (1421026)**						
	MeHg		1.000	0.896	ng/L	90% 67-133	
B140925-MS2	**Matrix Spike (1421019-01)**						
	MeHg	0.343	5.000	5.721	ng/L	108% 65-135	
B140925-MSD2	**Matrix Spike Duplicate (1421019-01)**						
	MeHg	0.343	5.000	5.878	ng/L	111% 65-135	3% 35

Method Blanks & Reporting Limits

Batch: B140925
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B140925-BLK1	0.006	ng/L
B140925-BLK2	0.009	ng/L
B140925-BLK3	0.008	ng/L
B140925-BLK4	0.003	ng/L

Average: 0.007 **Standard Deviation:** 0.003 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12929

Sample Containers

Lab ID: 1421019-01 **Report Matrix:** Water **Collected:** 05/13/2014
Sample: H14050278-016F **Sample Type:** Sample **Received:** 05/21/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCl (PP)	1417008	<2	Cooler

Lab ID: 1421019-02 **Report Matrix:** Water **Collected:** 05/13/2014
Sample: H14050278-017F **Sample Type:** Sample **Received:** 05/21/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCl (PP)	1417008	<2	Cooler

Lab ID: 1421019-03 **Report Matrix:** Water **Collected:** 05/13/2014
Sample: H14050278-018F **Sample Type:** Sample **Received:** 05/21/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCl (PP)	1417008	<2	Cooler

Lab ID: 1421019-04 **Report Matrix:** Water **Collected:** 05/13/2014
Sample: H14050278-019F **Sample Type:** Sample **Received:** 05/21/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	2mL 6N HCl (PP)	1417008	<2	Cooler

Lab ID: 1421019-05 **Report Matrix:** DIW **Collected:** 05/13/2014
Sample: H14050278-020F **Sample Type:** Trip Blank **Received:** 05/21/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0034	0.4% HCl (BRL)	1416015	<2	Cooler

Shipping Containers

Cooler

Received: May 21, 2014 9:03
Tracking No: 1Z37EW970352259288 via UPS
Coolant Type: Ice
Temperature: 2.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

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14 21019

Energy Laboratories Inc
3161 East Lyndale Avenue
Helena, MT 59601
(406) 442-0711

H14050278

CHAIN-OF-CUSTODY RECORD

Custody Seal: Y N
Intacted: Y N
Signature Match: Y N

Shipped By: _____
Receipt Temp: _____

Subcontractor:
Brooks Rand Labs
3958 6th Ave NW
Seattle, WA 98106
TEL: (206) 632-6206 FAX: (206) 632-6017
Acct #:

Subcontractor's Client:

Rush	Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests: SUB-BROOKSRAND
☐	H14050278-016F	Aqueous	05/13/14 12:00 P	1-CLIENT-SLD	1
☐	H14050278-017F	Aqueous	05/13/14 01:15 P	1-CLIENT-SLD	1
☐	H14050278-018F	Aqueous	05/13/14 01:45 P	1-CLIENT-SLD	1
☐	H14050278-019F	Aqueous	05/13/14 01:45 P	1-CLIENT-SLD	1
☐	H14050278-020A	Trip Blank	05/13/14 09:30 A	1-TRIP BLANK	1

Earliest Due Date: 5/30/2014

Comments: PO# H12929

QC Level:
STD

	Date/Time		
Relinquished by:		**Received by:**	
Relinquished by:	5/15/14 17:16	**Received by:**	5/21/14 0903

Workorder Receipt Checklist

MT DEQ-Federal Superfund

H14050278

Login completed by: Tracy L. Lorash
Reviewed by: BL2000\sdull
Reviewed Date: 5/23/2014

Date Received: 5/15/2014
Received by: TLL
Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	°C See comments		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Collection time on COC for CSC is 10:30 - bottles have time of 10:45. Logged in with time from bottles per Erich.
Collection time on COC for CFR-116A is 9:30 - bottles have time of 9:00. Logged in with time from COC per Erich.
Cooler 1 was received at 0.9°C, Cooler 2 at 0.2°C. Samples were received on wet ice. TI 5/15/14

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (RESPEC)

Report Mail Address (Required): erich.weber@respec.com
bequinones@mt.gov
gary.ingman@respec.com
joe.naughton@respec.com
☐ No Hard Copy Email:

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Contact Name: Ben Quinones
Phone/Fax: 406.841.5709
Erich Weber 502-1546
Cell: 439-0563

Sampler: (Please Print) J. Naughton, H. McAdams, E. Weber

Invoice Contact & Phone: Ben Quinones 406.841.5709

Purchase Order:

Quote/Bottle Order: H958

Invoice Address (Required): MT DEQ, P.O. Box 200901, Helena, MT 59620-0901
☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT)

RUSH — Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: all dissolved samples were field filtered

Shipped by: Hand
Cooler ID(s): Y
Receipt Temp: See comments
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot Alk., SO_4^{--}, Cl^-	Hardness (TR Ca + Mg)	DOC		SEE ATTACHED		Comments
1	CFR-116A	5-13-2014	0930	SW	X	X	X	X	X	X	X	X				
2	CSC	5-13-2014	1030	SW												C1 = 0.9, C2 = 0.2 } TB
3	LBR-CFR	5-13-2014	1530	SW												
4	CFR-42G	5-13-2014	1730	SW												
5	CFR-27H	5-14-2014	0845	SW												
6	CFR-11F	5-14-2014	0945	SW												
7	CFR-07D	5-14-2014	1045	SW												
8	CFR-03A	5-14-2014	1145	SW												
9	WSC-SBC	5-14-2014	1245	SW												
10	SS-25	5-14-2014	1345	SW												

LABORATORY USE ONLY: H14050278

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 5-15-2014/1500 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Tracy Lord Date/Time: 5/15/14 13:00 Signature: Tracy Lord

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (RESPEC)

Project Name, PWS, Permit, Etc.: CFROW Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

☐ No Hard Copy Email:

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) See page 1

Invoice Contact & Phone: see page 1

Purchase Order:

Quote/Bottle Order: H958/

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Standard Turnaround (TAT) | RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: all dissolved samples were field filtered

Shipped by: Hand

Cooler ID(s): Y

Receipt Temp: See comments

On Ice: (Y) N

Custody Seal: On Bottle Y (N); On Cooler Y (N)

Intact Y N

Signature Match Y N

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	TRAs, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot Alk, SO_4^-, Cl^-	Hardness (TR Ca & Mg)	DOC	Me Hg (contract lab)	SEE ATTACHED			
1	MWB-SBC	5-14-2014	1430	5W	X	X	X	X	X	X	X	X				C1 = 0.9	H4050278
2	SBC P2	5-14-2014	1530	5W												C2 = 0.2	
3	Field Blank #2	5-14-2014	1600	5W													
4	MCWC-MWB	5-14-2014	1630	5W													
5	MCWC-MWB Duplicate	5-14-2014	1630	5W													
6	CFR-84F	5-13-2014	1200	6W									X				
7	Field Blank #1	5-13-2014	1315	6W									✓				
8	FC-CFR	5-13-2014	1345	6W									✓				
9	FC-CFR Duplicate	5-13-2014	1345	6W													
10																	

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Erich Weber	5-15-2014 / 1300				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Nacy Lerol	Date/Time: 5/15/14 12:00	Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (RESPEC)

Project Name, PWS, Permit, Etc.: CFRoW Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

☐ No Hard Copy Email:

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) See page 1

Invoice Contact & Phone: See page 1

Purchase Order:

Quote/Bottle Order: H958/

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: Tot Hg (ULL) analyzed from TR metals sample (see page 2)

Shipped by: Hand

Cooler ID(s): Y

Receipt Temp: See comments

On Ice: Y N

Custody Seal On Bottle Y N; On Cooler Y N

Intact Y N

Signature Match Y N

LABORATORY USE ONLY H14050278

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	Tot. Hg (ULL from TR metals)	
1 Field Blank #1	5-13-2014	1315	1W	✓	
2 FC-CFR	5-13-2014	1345	1W	✓	C1 = 0.9 / C2 = 0.2 / B
3 FC-CFR Duplicate	5-13-2014	1345	1W	✓	
4 CFR-84F	5-13-2014	1200	1W	✓	
5					
6					
7					
8					
9					
10					

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 5-15-2014 / 1300 Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Tracy Lovrod Date/Time: 5/15/14 13:00 Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

ANALYTICAL SUMMARY REPORT

July 07, 2014

MT DEQ-Federal Superfund
PO Box 200901
Helena, MT 59620-0901

Work Order: H14060255 Quote ID: H958 - CFR Monitoring-474374

Project Name: CFR OU Monitoring

Energy Laboratories Inc Helena MT received the following 19 samples for MT DEQ-Federal Superfund on 6/12/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H14060255-001	CFR-116A	06/10/14 9:15	06/12/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14060255-002	CSC	06/10/14 10:30	06/12/14	Aqueous	Same As Above
H14060255-003	LBR-CFR-02	06/10/14 15:30	06/12/14	Aqueous	Same As Above
H14060255-004	CFR-42G	06/10/14 17:00	06/12/14	Aqueous	Same As Above
H14060255-005	CFR-27H	06/10/14 18:00	06/12/14	Aqueous	Same As Above
H14060255-006	CFR-11F	06/11/14 9:00	06/12/14	Aqueous	Same As Above
H14060255-007	CFR-07D	06/11/14 10:00	06/12/14	Aqueous	Same As Above
H14060255-008	CFR-03A	06/11/14 11:00	06/12/14	Aqueous	Same As Above
H14060255-009	WSC-SBC	06/11/14 11:30	06/12/14	Aqueous	Same As Above
H14060255-010	SS-25	06/11/14 13:00	06/12/14	Aqueous	Same As Above
H14060255-011	MWB-SBC	06/11/14 13:45	06/12/14	Aqueous	Same As Above
H14060255-012	SBC P2	06/11/14 14:30	06/12/14	Aqueous	Same As Above
H14060255-013	Field Blank #2	06/11/14 15:00	06/12/14	Aqueous	Same As Above
H14060255-014	MCWC-MWB	06/11/14 15:30	06/12/14	Aqueous	Same As Above
H14060255-015	MCWC-MWB Duplicate	06/11/14 15:30	06/12/14	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

H14060255-016	CFR-84F	06/10/14 12:00	06/12/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Mercury, Total Recoverable Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Mercury by CVAA Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended Subcontracted, Analytics
H14060255-017	Field Blank #1	06/10/14 13:00	06/12/14	Aqueous	Same As Above
H14060255-018	FC-CFR	06/10/14 13:30	06/12/14	Aqueous	Same As Above
H14060255-019	FC-CFR Duplicate	06/10/14 13:30	06/12/14	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: MT DEQ-Federal Superfund
Project: CFR OU Monitoring
Work Order: H14060255

Report Date: 07/07/14

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Samples for Methyl Mercury were submitted to BrooksRand Labs, attached is the report.

For this workorder, there were several samples, where at least one Dissolved metal was higher than the corresponding Total / Total Recoverable metal. These results were all confirmed by re-analysis or duplicate analysis. Wj 7/7/14

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14060255-001
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 09:15
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	22	mg/L		1		A2540 D	06/13/14 09:08 / cm		I24 (14410200)_140613A	18	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	69	mg/L		4		A2320 B	06/13/14 15:08 / SR		PHSC_101-H_140613A	127	R97974
Bicarbonate as HCO3	83	mg/L		4		A2320 B	06/13/14 15:08 / SR		PHSC_101-H_140613A	127	R97974
Chloride	1	mg/L		1		E300.0	06/13/14 19:07 / cm		IC102-H_140613A	25	R98024
Sulfate	13	mg/L		1		E300.0	06/13/14 19:07 / cm		IC102-H_140613A	25	R98024
Hardness as CaCO3	75	mg/L		1		A2340 B	06/17/14 17:24 / abb		CALC_140618A	104	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.6	mg/L		0.1		A5310 C	06/13/14 15:15 / eli-c		SUB-C187552	17	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 14:59 / cm		FIA203-HE_140613C	28	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:34 / cm		FIA203-HE_140613A	15	R97982
Nitrogen, Total	0.20	mg/L		0.05		A4500 N-C	06/17/14 11:36 / cm	06/16/14 13:51	FIA203-HE_140617A	14	24952
Phosphorus, Total as P	0.037	mg/L		0.005		E365.1	06/18/14 08:50 / cm	06/16/14 15:23	FIA202-HE_140618A	23	24956
METALS, DISSOLVED											
Arsenic	0.005	mg/L		0.001		E200.8	06/18/14 13:54 / dck		ICPMS204-B_140619A	34	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 13:54 / dck		ICPMS204-B_140619A	34	R98112
Copper	0.004	mg/L		0.001		E200.8	06/18/14 13:54 / dck		ICPMS204-B_140619A	34	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 13:54 / dck		ICPMS204-B_140619A	34	R98112
Zinc	0.008	mg/L		0.008		E200.8	06/18/14 13:54 / dck		ICPMS204-B_140619A	34	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.006	mg/L		0.001		E200.8	06/18/14 14:12 / dck	06/13/14 16:38	ICPMS204-B_140619A	38	24931
Cadmium	0.00009	mg/L		0.00003		E200.8	06/18/14 14:12 / dck	06/13/14 16:38	ICPMS204-B_140619A	38	24931
Calcium	21	mg/L		1		E200.7	06/17/14 17:24 / sld	06/13/14 16:38	ICP2-HE_140617B	49	24931
Copper	0.013	mg/L		0.001		E200.8	06/18/14 14:12 / dck	06/13/14 16:38	ICPMS204-B_140619A	38	24931
Lead	0.0018	mg/L		0.0003		E200.8	06/18/14 14:12 / dck	06/13/14 16:38	ICPMS204-B_140619A	38	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14060255-001
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 09:15
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	5	mg/L		1		E200.7	06/17/14 17:24 / sld	06/13/14 16:38	ICP2-HE_140617B	49	24931
Zinc	0.019	mg/L		0.008		E200.8	06/18/14 14:12 / dck	06/13/14 16:38	ICPMS204-B_140619A	38	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CSC
Lab ID: H14060255-002
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 10:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	06/13/14 09:09 / cm		I24 (14410200)_140613A	19	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	06/13/14 15:13 / SR		PHSC_101-H_140613A	129	R97974
Bicarbonate as HCO3	170	mg/L		4		A2320 B	06/13/14 15:13 / SR		PHSC_101-H_140613A	129	R97974
Chloride	3	mg/L		1		E300.0	06/13/14 19:18 / cm		IC102-H_140613A	26	R98024
Sulfate	28	mg/L		1		E300.0	06/13/14 19:18 / cm		IC102-H_140613A	26	R98024
Hardness as CaCO3	151	mg/L		1		A2340 B	06/17/14 17:28 / abb		CALC_140618A	115	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.9	mg/L		0.1		A5310 C	06/13/14 15:25 / eli-c		SUB-C187552	18	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:03 / cm		FIA203-HE_140613C	31	R97999
Nitrogen, Nitrate+Nitrite as N	0.24	mg/L		0.05		E353.2	06/13/14 09:37 / cm		FIA203-HE_140613A	18	R97982
Nitrogen, Total	0.29	mg/L		0.05		A4500 N-C	06/17/14 11:40 / cm	06/16/14 13:51	FIA203-HE_140617A	17	24952
Phosphorus, Total as P	0.014	mg/L		0.005		E365.1	06/18/14 08:51 / cm	06/16/14 15:23	FIA202-HE_140618A	24	24956
METALS, DISSOLVED											
Arsenic	0.002	mg/L		0.001		E200.8	06/18/14 14:16 / dck		ICPMS204-B_140619A	39	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 14:16 / dck		ICPMS204-B_140619A	39	R98112
Copper	ND	mg/L		0.001		E200.8	06/18/14 14:16 / dck		ICPMS204-B_140619A	39	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 14:16 / dck		ICPMS204-B_140619A	39	R98112
Zinc	0.016	mg/L		0.008		E200.8	06/18/14 14:16 / dck		ICPMS204-B_140619A	39	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.002	mg/L		0.001		E200.8	06/18/14 14:20 / dck	06/13/14 16:38	ICPMS204-B_140619A	40	24931
Cadmium	0.00005	mg/L		0.00003		E200.8	06/18/14 14:20 / dck	06/13/14 16:38	ICPMS204-B_140619A	40	24931
Calcium	44	mg/L		1		E200.7	06/17/14 17:28 / sld	06/13/14 16:38	ICP2-HE_140617B	50	24931
Copper	0.001	mg/L		0.001		E200.8	06/18/14 14:20 / dck	06/13/14 16:38	ICPMS204-B_140619A	40	24931
Lead	ND	mg/L		0.0003		E200.8	06/18/14 14:20 / dck	06/13/14 16:38	ICPMS204-B_140619A	40	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CSC
Lab ID: H14060255-002
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 10:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	10	mg/L		1		E200.7	06/17/14 17:28 / sld	06/13/14 16:38	ICP2-HE_140617B	50	24931
Zinc	0.011	mg/L		0.008		E200.8	06/18/14 14:20 / dck	06/13/14 16:38	ICPMS204-B_140619A	40	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14060255-003
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 15:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	4	mg/L		1		A2540 D	06/13/14 09:10 / cm		I24 (14410200)_140613A	20	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	97	mg/L		4		A2320 B	06/13/14 15:19 / SR		PHSC_101-H_140613A	131	R97974
Bicarbonate as HCO3	120	mg/L		4		A2320 B	06/13/14 15:19 / SR		PHSC_101-H_140613A	131	R97974
Chloride	2	mg/L		1		E300.0	06/13/14 19:29 / cm		IC102-H_140613A	27	R98024
Sulfate	8	mg/L		1		E300.0	06/13/14 19:29 / cm		IC102-H_140613A	27	R98024
Hardness as CaCO3	87	mg/L		1		A2340 B	06/17/14 17:32 / abb		CALC_140618A	126	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.3	mg/L		0.1		A5310 C	06/13/14 15:36 / eli-c		SUB-C187552	19	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:04 / cm		FIA203-HE_140613C	32	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:38 / cm		FIA203-HE_140613A	19	R97982
Nitrogen, Total	0.21	mg/L		0.05		A4500 N-C	06/17/14 11:41 / cm	06/16/14 13:51	FIA203-HE_140617A	18	24952
Phosphorus, Total as P	0.033	mg/L		0.005		E365.1	06/18/14 08:52 / cm	06/16/14 15:23	FIA202-HE_140618A	25	24956
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	06/18/14 14:25 / dck		ICPMS204-B_140619A	41	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 14:25 / dck		ICPMS204-B_140619A	41	R98112
Copper	0.001	mg/L		0.001		E200.8	06/18/14 14:25 / dck		ICPMS204-B_140619A	41	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 14:25 / dck		ICPMS204-B_140619A	41	R98112
Zinc	ND	mg/L		0.008		E200.8	06/18/14 14:25 / dck		ICPMS204-B_140619A	41	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.006	mg/L		0.001		E200.8	06/18/14 14:29 / dck	06/13/14 16:38	ICPMS204-B_140619A	42	24931
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 14:29 / dck	06/13/14 16:38	ICPMS204-B_140619A	42	24931
Calcium	26	mg/L		1		E200.7	06/17/14 17:32 / sld	06/13/14 16:38	ICP2-HE_140617B	51	24931
Copper	0.002	mg/L		0.001		E200.8	06/18/14 14:29 / dck	06/13/14 16:38	ICPMS204-B_140619A	42	24931
Lead	0.0004	mg/L		0.0003		E200.8	06/18/14 14:29 / dck	06/13/14 16:38	ICPMS204-B_140619A	42	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14060255-003
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 15:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	6	mg/L		1		E200.7	06/17/14 17:32 / sld	06/13/14 16:38	ICP2-HE_140617B	51	24931
Zinc	ND	mg/L		0.008		E200.8	06/18/14 14:29 / dck	06/13/14 16:38	ICPMS204-B_140619A	42	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-42G
Lab ID: H14060255-004
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 17:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	30	mg/L		1		A2540 D	06/13/14 09:10 / cm		I24 (14410200)_140613A	21	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	06/13/14 15:25 / SR		PHSC_101-H_140613A	133	R97974
Bicarbonate as HCO3	140	mg/L		4		A2320 B	06/13/14 15:25 / SR		PHSC_101-H_140613A	133	R97974
Chloride	4	mg/L		1		E300.0	06/13/14 19:40 / cm		IC102-H_140613A	28	R98024
Sulfate	36	mg/L		1		E300.0	06/13/14 19:40 / cm		IC102-H_140613A	28	R98024
Hardness as CaCO3	133	mg/L		1		A2340 B	06/17/14 17:36 / abb		CALC_140618A	137	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.0	mg/L		0.1		A5310 C	06/13/14 15:46 / eli-c		SUB-C187552	20	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:05 / cm		FIA203-HE_140613C	33	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:40 / cm		FIA203-HE_140613A	20	R97982
Nitrogen, Total	0.37	mg/L		0.05		A4500 N-C	06/17/14 11:42 / cm	06/16/14 13:51	FIA203-HE_140617A	19	24952
Phosphorus, Total as P	0.066	mg/L		0.005		E365.1	06/18/14 08:53 / cm	06/16/14 15:23	FIA202-HE_140618A	26	24956
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	06/18/14 14:34 / dck		ICPMS204-B_140619A	43	R98112
Cadmium	0.00005	mg/L		0.00003		E200.8	06/18/14 14:34 / dck		ICPMS204-B_140619A	43	R98112
Copper	0.012	mg/L		0.001		E200.8	06/18/14 14:34 / dck		ICPMS204-B_140619A	43	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 14:34 / dck		ICPMS204-B_140619A	43	R98112
Zinc	0.012	mg/L		0.008		E200.8	06/18/14 14:34 / dck		ICPMS204-B_140619A	43	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.024	mg/L		0.001		E200.8	06/18/14 14:38 / dck	06/13/14 16:38	ICPMS204-B_140619A	44	24931
Cadmium	0.00025	mg/L		0.00003		E200.8	06/18/14 14:38 / dck	06/13/14 16:38	ICPMS204-B_140619A	44	24931
Calcium	39	mg/L		1		E200.7	06/17/14 17:36 / sld	06/13/14 16:38	ICP2-HE_140617B	52	24931
Copper	0.063	mg/L		0.001		E200.8	06/18/14 14:38 / dck	06/13/14 16:38	ICPMS204-B_140619A	44	24931
Lead	0.0074	mg/L		0.0003		E200.8	06/18/14 14:38 / dck	06/13/14 16:38	ICPMS204-B_140619A	44	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-42G
Lab ID: H14060255-004
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 17:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	06/17/14 17:36 / sld	06/13/14 16:38	ICP2-HE_140617B	52	24931
Zinc	0.049	mg/L		0.008		E200.8	06/18/14 14:38 / dck	06/13/14 16:38	ICPMS204-B_140619A	44	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14060255-005
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 18:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	25	mg/L		1		A2540 D	06/13/14 09:10 / cm		I24 (14410200)_140613A	22	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	88	mg/L		4		A2320 B	06/13/14 15:31 / SR		PHSC_101-H_140613A	135	R97974
Bicarbonate as HCO3	110	mg/L		4		A2320 B	06/13/14 15:31 / SR		PHSC_101-H_140613A	135	R97974
Chloride	3	mg/L		1		E300.0	06/13/14 20:14 / cm		IC102-H_140613A	31	R98024
Sulfate	33	mg/L		1		E300.0	06/13/14 20:14 / cm		IC102-H_140613A	31	R98024
Hardness as CaCO3	116	mg/L		1		A2340 B	06/17/14 17:58 / abb		CALC_140618A	148	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.7	mg/L		0.1		A5310 C	06/13/14 15:57 / eli-c		SUB-C187552	21	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:06 / cm		FIA203-HE_140613C	34	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:41 / cm		FIA203-HE_140613A	21	R97982
Nitrogen, Total	0.32	mg/L		0.05		A4500 N-C	06/17/14 11:43 / cm	06/16/14 13:51	FIA203-HE_140617A	20	24952
Phosphorus, Total as P	0.045	mg/L		0.005		E365.1	06/18/14 08:54 / cm	06/16/14 15:23	FIA202-HE_140618A	27	24956
METALS, DISSOLVED											
Arsenic	0.018	mg/L		0.001		E200.8	06/18/14 15:03 / dck		ICPMS204-B_140619A	50	R98112
Cadmium	0.00005	mg/L		0.00003		E200.8	06/18/14 15:03 / dck		ICPMS204-B_140619A	50	R98112
Copper	0.011	mg/L		0.001		E200.8	06/18/14 15:03 / dck		ICPMS204-B_140619A	50	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 15:03 / dck		ICPMS204-B_140619A	50	R98112
Zinc	ND	mg/L		0.008		E200.8	06/18/14 15:03 / dck		ICPMS204-B_140619A	50	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.023	mg/L		0.001		E200.8	06/18/14 15:08 / dck	06/13/14 16:38	ICPMS204-B_140619A	51	24931
Cadmium	0.00021	mg/L		0.00003		E200.8	06/18/14 15:08 / dck	06/13/14 16:38	ICPMS204-B_140619A	51	24931
Calcium	34	mg/L		1		E200.7	06/17/14 17:58 / sld	06/13/14 16:38	ICP2-HE_140617B	58	24931
Copper	0.056	mg/L		0.001		E200.8	06/18/14 15:08 / dck	06/13/14 16:38	ICPMS204-B_140619A	51	24931
Lead	0.0061	mg/L		0.0003		E200.8	06/18/14 15:08 / dck	06/13/14 16:38	ICPMS204-B_140619A	51	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14060255-005
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 18:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	06/17/14 17:58 / sld	06/13/14 16:38	ICP2-HE_140617B	58	24931
Zinc	0.040	mg/L		0.008		E200.8	06/18/14 15:08 / dck	06/13/14 16:38	ICPMS204-B_140619A	51	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14060255-006
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 09:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	13	mg/L		1		A2540 D	06/13/14 09:11 / cm		I24 (14410200)_140613A	23	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	78	mg/L		4		A2320 B	06/13/14 15:36 / SR		PHSC_101-H_140613A	137	R97974
Bicarbonate as HCO3	95	mg/L		4		A2320 B	06/13/14 15:36 / SR		PHSC_101-H_140613A	137	R97974
Chloride	2	mg/L		1		E300.0	06/13/14 20:47 / cm		IC102-H_140613A	34	R98024
Sulfate	32	mg/L		1		E300.0	06/13/14 20:47 / cm		IC102-H_140613A	34	R98024
Hardness as CaCO3	107	mg/L		1		A2340 B	06/17/14 18:01 / abb		CALC_140618A	159	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.3	mg/L		0.1		A5310 C	06/13/14 17:11 / eli-c		SUB-C187552	25	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:07 / cm		FIA203-HE_140613C	35	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:42 / cm		FIA203-HE_140613A	22	R97982
Nitrogen, Total	0.23	mg/L		0.05		A4500 N-C	06/17/14 11:44 / cm	06/16/14 13:51	FIA203-HE_140617A	21	24952
Phosphorus, Total as P	0.028	mg/L		0.005		E365.1	06/18/14 08:55 / cm	06/16/14 15:23	FIA202-HE_140618A	28	24956
METALS, DISSOLVED											
Arsenic	0.016	mg/L		0.001		E200.8	06/18/14 15:12 / dck		ICPMS204-B_140619A	52	R98112
Cadmium	0.00003	mg/L		0.00003		E200.8	06/18/14 15:12 / dck		ICPMS204-B_140619A	52	R98112
Copper	0.007	mg/L		0.001		E200.8	06/18/14 15:12 / dck		ICPMS204-B_140619A	52	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 15:12 / dck		ICPMS204-B_140619A	52	R98112
Zinc	0.013	mg/L		0.008		E200.8	06/18/14 15:12 / dck		ICPMS204-B_140619A	52	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.018	mg/L		0.001		E200.8	06/18/14 15:17 / dck	06/13/14 16:38	ICPMS204-B_140619A	53	24931
Cadmium	0.00013	mg/L		0.00003		E200.8	06/18/14 15:17 / dck	06/13/14 16:38	ICPMS204-B_140619A	53	24931
Calcium	31	mg/L		1		E200.7	06/17/14 18:01 / sld	06/13/14 16:38	ICP2-HE_140617B	59	24931
Copper	0.027	mg/L		0.001		E200.8	06/18/14 15:17 / dck	06/13/14 16:38	ICPMS204-B_140619A	53	24931
Lead	0.0027	mg/L		0.0003		E200.8	06/18/14 15:17 / dck	06/13/14 16:38	ICPMS204-B_140619A	53	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14060255-006
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 09:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	06/17/14 18:01 / sld	06/13/14 16:38	ICP2-HE_140617B	59	24931
Zinc	0.021	mg/L		0.008		E200.8	06/18/14 15:17 / dck	06/13/14 16:38	ICPMS204-B_140619A	53	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14060255-007
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 10:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	16	mg/L		1		A2540 D	06/13/14 09:11 / cm		I24 (14410200)_140613A	24	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	74	mg/L		4		A2320 B	06/13/14 15:42 / SR		PHSC_101-H_140613A	139	R97974
Bicarbonate as HCO3	90	mg/L		4		A2320 B	06/13/14 15:42 / SR		PHSC_101-H_140613A	139	R97974
Chloride	2	mg/L		1		E300.0	06/13/14 20:58 / cm		IC102-H_140613A	35	R98024
Sulfate	30	mg/L		1		E300.0	06/13/14 20:58 / cm		IC102-H_140613A	35	R98024
Hardness as CaCO3	99	mg/L		1		A2340 B	06/17/14 18:05 / abb		CALC_140618A	170	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.2	mg/L		0.1		A5310 C	06/13/14 17:22 / eli-c		SUB-C187552	26	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:09 / cm		FIA203-HE_140613C	36	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:43 / cm		FIA203-HE_140613A	23	R97982
Nitrogen, Total	0.19	mg/L		0.05		A4500 N-C	06/17/14 11:45 / cm	06/16/14 13:51	FIA203-HE_140617A	22	24952
Phosphorus, Total as P	0.030	mg/L		0.005		E365.1	06/18/14 08:58 / cm	06/16/14 15:23	FIA202-HE_140618A	31	24956
METALS, DISSOLVED											
Arsenic	0.015	mg/L		0.001		E200.8	06/18/14 15:21 / dck		ICPMS204-B_140619A	54	R98112
Cadmium	0.00003	mg/L		0.00003		E200.8	06/18/14 15:21 / dck		ICPMS204-B_140619A	54	R98112
Copper	0.006	mg/L		0.001		E200.8	06/18/14 15:21 / dck		ICPMS204-B_140619A	54	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 15:21 / dck		ICPMS204-B_140619A	54	R98112
Zinc	0.009	mg/L		0.008		E200.8	06/18/14 15:21 / dck		ICPMS204-B_140619A	54	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.017	mg/L		0.001		E200.8	06/18/14 15:25 / dck	06/13/14 16:38	ICPMS204-B_140619A	55	24931
Cadmium	0.00011	mg/L		0.00003		E200.8	06/18/14 15:25 / dck	06/13/14 16:38	ICPMS204-B_140619A	55	24931
Calcium	29	mg/L		1		E200.7	06/17/14 18:05 / sld	06/13/14 16:38	ICP2-HE_140617B	60	24931
Copper	0.024	mg/L		0.001		E200.8	06/18/14 15:25 / dck	06/13/14 16:38	ICPMS204-B_140619A	55	24931
Lead	0.0024	mg/L		0.0003		E200.8	06/18/14 15:25 / dck	06/13/14 16:38	ICPMS204-B_140619A	55	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14060255-007
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 10:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	06/17/14 18:05 / sld	06/13/14 16:38	ICP2-HE_140617B	60	24931
Zinc	0.018	mg/L		0.008		E200.8	06/18/14 15:25 / dck	06/13/14 16:38	ICPMS204-B_140619A	55	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14060255-008
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 11:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	10	mg/L		1		A2540 D	06/13/14 09:14 / cm		I24 (14410200)_140613A	29	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	68	mg/L		4		A2320 B	06/13/14 15:47 / SR		PHSC_101-H_140613A	141	R97974
Bicarbonate as HCO3	83	mg/L		4		A2320 B	06/13/14 15:47 / SR		PHSC_101-H_140613A	141	R97974
Chloride	2	mg/L		1		E300.0	06/13/14 21:09 / cm		IC102-H_140613A	36	R98024
Sulfate	24	mg/L		1		E300.0	06/13/14 21:09 / cm		IC102-H_140613A	36	R98024
Hardness as CaCO3	92	mg/L		1		A2340 B	06/17/14 18:09 / abb		CALC_140618A	181	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.1	mg/L		0.1		A5310 C	06/13/14 17:32 / eli-c		SUB-C187552	27	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:10 / cm		FIA203-HE_140613C	37	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:44 / cm		FIA203-HE_140613A	24	R97982
Nitrogen, Total	0.20	mg/L		0.05		A4500 N-C	06/17/14 11:47 / cm	06/16/14 13:51	FIA203-HE_140617A	23	24952
Phosphorus, Total as P	0.027	mg/L		0.005		E365.1	06/18/14 08:59 / cm	06/16/14 15:23	FIA202-HE_140618A	32	24956
METALS, DISSOLVED											
Arsenic	0.014	mg/L		0.001		E200.8	06/18/14 15:30 / dck		ICPMS204-B_140619A	56	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 15:30 / dck		ICPMS204-B_140619A	56	R98112
Copper	0.005	mg/L		0.001		E200.8	06/18/14 15:30 / dck		ICPMS204-B_140619A	56	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 15:30 / dck		ICPMS204-B_140619A	56	R98112
Zinc	ND	mg/L		0.008		E200.8	06/18/14 15:30 / dck		ICPMS204-B_140619A	56	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.015	mg/L		0.001		E200.8	06/18/14 15:34 / dck	06/13/14 16:38	ICPMS204-B_140619A	57	24931
Cadmium	0.00008	mg/L		0.00003		E200.8	06/18/14 15:34 / dck	06/13/14 16:38	ICPMS204-B_140619A	57	24931
Calcium	27	mg/L		1		E200.7	06/17/14 18:09 / sld	06/13/14 16:38	ICP2-HE_140617B	61	24931
Copper	0.015	mg/L		0.001		E200.8	06/18/14 15:34 / dck	06/13/14 16:38	ICPMS204-B_140619A	57	24931
Lead	0.0015	mg/L		0.0003		E200.8	06/18/14 15:34 / dck	06/13/14 16:38	ICPMS204-B_140619A	57	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14060255-008
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 11:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	6	mg/L		1		E200.7	06/17/14 18:09 / sld	06/13/14 16:38	ICP2-HE_140617B	61	24931
Zinc	0.011	mg/L		0.008		E200.8	06/18/14 15:34 / dck	06/13/14 16:38	ICPMS204-B_140619A	57	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14060255-009
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 11:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	11	mg/L		1		A2540 D	06/13/14 09:14 / cm		I24 (14410200)_140613A	30	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	67	mg/L		4		A2320 B	06/13/14 15:53 / SR		PHSC_101-H_140613A	143	R97974
Bicarbonate as HCO3	81	mg/L		4		A2320 B	06/13/14 15:53 / SR		PHSC_101-H_140613A	143	R97974
Chloride	ND	mg/L		1		E300.0	06/13/14 21:20 / cm		IC102-H_140613A	37	R98024
Sulfate	13	mg/L		1		E300.0	06/13/14 21:20 / cm		IC102-H_140613A	37	R98024
Hardness as CaCO3	79	mg/L		1		A2340 B	06/17/14 18:13 / abb		CALC_140618A	192	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.2	mg/L		0.1		A5310 C	06/13/14 17:42 / eli-c		SUB-C187552	28	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:11 / cm		FIA203-HE_140613C	38	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:46 / cm		FIA203-HE_140613A	25	R97982
Nitrogen, Total	0.14	mg/L		0.05		A4500 N-C	06/17/14 11:48 / cm	06/16/14 13:51	FIA203-HE_140617A	24	24952
Phosphorus, Total as P	0.013	mg/L		0.005		E365.1	06/18/14 09:00 / cm	06/16/14 15:23	FIA202-HE_140618A	33	24956
METALS, DISSOLVED											
Arsenic	0.005	mg/L		0.001		E200.8	06/18/14 15:39 / dck		ICPMS204-B_140619A	58	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 15:39 / dck		ICPMS204-B_140619A	58	R98112
Copper	0.003	mg/L		0.001		E200.8	06/18/14 15:39 / dck		ICPMS204-B_140619A	58	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 15:39 / dck		ICPMS204-B_140619A	58	R98112
Zinc	0.009	mg/L		0.008		E200.8	06/18/14 15:39 / dck		ICPMS204-B_140619A	58	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.006	mg/L		0.001		E200.8	06/18/14 15:56 / dck	06/13/14 16:38	ICPMS204-B_140619A	62	24931
Cadmium	0.00007	mg/L		0.00003		E200.8	06/18/14 15:56 / dck	06/13/14 16:38	ICPMS204-B_140619A	62	24931
Calcium	24	mg/L		1		E200.7	06/17/14 18:13 / sld	06/13/14 16:38	ICP2-HE_140617B	62	24931
Copper	0.012	mg/L		0.001		E200.8	06/18/14 15:56 / dck	06/13/14 16:38	ICPMS204-B_140619A	62	24931
Lead	0.0011	mg/L		0.0003		E200.8	06/18/14 15:56 / dck	06/13/14 16:38	ICPMS204-B_140619A	62	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14060255-009
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 11:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	4	mg/L		1		E200.7	06/17/14 18:13 / sld	06/13/14 16:38	ICP2-HE_140617B	62	24931
Zinc	ND	mg/L		0.008		E200.8	06/18/14 15:56 / dck	06/13/14 16:38	ICPMS204-B_140619A	62	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14060255-010
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 13:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	6	mg/L		1		A2540 D	06/13/14 09:15 / cm		I24 (14410200)_140613A	31	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	61	mg/L		4		A2320 B	06/13/14 15:58 / SR		PHSC_101-H_140613A	145	R97974
Bicarbonate as HCO3	74	mg/L		4		A2320 B	06/13/14 15:58 / SR		PHSC_101-H_140613A	145	R97974
Chloride	3	mg/L		1		E300.0	06/13/14 21:31 / cm		IC102-H_140613A	38	R98024
Sulfate	29	mg/L		1		E300.0	06/13/14 21:31 / cm		IC102-H_140613A	38	R98024
Hardness as CaCO3	83	mg/L		1		A2340 B	06/17/14 18:17 / abb		CALC_140618A	203	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.7	mg/L		0.1		A5310 C	06/13/14 17:53 / eli-c		SUB-C187552	29	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:15 / cm		FIA203-HE_140613C	41	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:49 / cm		FIA203-HE_140613A	28	R97982
Nitrogen, Total	0.18	mg/L		0.05		A4500 N-C	06/17/14 11:51 / cm	06/16/14 13:51	FIA203-HE_140617A	27	24952
Phosphorus, Total as P	0.037	mg/L		0.005		E365.1	06/18/14 09:01 / cm	06/16/14 15:23	FIA202-HE_140618A	34	24956
METALS, DISSOLVED											
Arsenic	0.022	mg/L		0.001		E200.8	06/18/14 16:01 / dck		ICPMS204-B_140619A	63	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 16:01 / dck		ICPMS204-B_140619A	63	R98112
Copper	0.005	mg/L		0.001		E200.8	06/18/14 16:01 / dck		ICPMS204-B_140619A	63	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 16:01 / dck		ICPMS204-B_140619A	63	R98112
Zinc	0.008	mg/L		0.008		E200.8	06/18/14 16:01 / dck		ICPMS204-B_140619A	63	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.023	mg/L		0.001		E200.8	06/18/14 16:05 / dck	06/13/14 16:38	ICPMS204-B_140619A	64	24931
Cadmium	0.00008	mg/L		0.00003		E200.8	06/18/14 16:05 / dck	06/13/14 16:38	ICPMS204-B_140619A	64	24931
Calcium	24	mg/L		1		E200.7	06/17/14 18:17 / sld	06/13/14 16:38	ICP2-HE_140617B	63	24931
Copper	0.007	mg/L		0.001		E200.8	06/18/14 16:05 / dck	06/13/14 16:38	ICPMS204-B_140619A	64	24931
Lead	0.0010	mg/L		0.0003		E200.8	06/18/14 16:05 / dck	06/13/14 16:38	ICPMS204-B_140619A	64	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14060255-010
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 13:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	6	mg/L		1		E200.7	06/17/14 18:17 / sld	06/13/14 16:38	ICP2-HE_140617B	63	24931
Zinc	0.008	mg/L		0.008		E200.8	06/18/14 16:05 / dck	06/13/14 16:38	ICPMS204-B_140619A	64	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14060255-011
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 13:45
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	5	mg/L		1		A2540 D	06/13/14 09:15 / cm		I24 (14410200)_140613A	32	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	54	mg/L		4		A2320 B	06/13/14 16:03 / SR		PHSC_101-H_140613A	147	R97974
Bicarbonate as HCO3	65	mg/L		4		A2320 B	06/13/14 16:03 / SR		PHSC_101-H_140613A	147	R97974
Chloride	1	mg/L		1		E300.0	06/13/14 21:43 / cm		IC102-H_140613A	39	R98024
Sulfate	23	mg/L		1		E300.0	06/13/14 21:43 / cm		IC102-H_140613A	39	R98024
Hardness as CaCO3	69	mg/L		1		A2340 B	06/17/14 18:20 / abb		CALC_140618A	214	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.0	mg/L		0.1		A5310 C	06/13/14 18:03 / eli-c		SUB-C187552	30	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:18 / cm		FIA203-HE_140613C	44	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:53 / cm		FIA203-HE_140613A	31	R97982
Nitrogen, Total	0.13	mg/L		0.05		A4500 N-C	06/17/14 11:53 / cm	06/16/14 13:51	FIA203-HE_140617A	28	24952
Phosphorus, Total as P	0.025	mg/L		0.005		E365.1	06/18/14 09:02 / cm	06/16/14 15:23	FIA202-HE_140618A	35	24956
METALS, DISSOLVED											
Arsenic	0.020	mg/L		0.001		E200.8	06/18/14 16:10 / dck		ICPMS204-B_140619A	65	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 16:10 / dck		ICPMS204-B_140619A	65	R98112
Copper	0.003	mg/L		0.001		E200.8	06/18/14 16:10 / dck		ICPMS204-B_140619A	65	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 16:10 / dck		ICPMS204-B_140619A	65	R98112
Zinc	0.010	mg/L		0.008		E200.8	06/18/14 16:10 / dck		ICPMS204-B_140619A	65	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	06/18/14 16:27 / dck	06/13/14 16:38	ICPMS204-B_140619A	69	24931
Cadmium	0.00008	mg/L		0.00003		E200.8	06/18/14 16:27 / dck	06/13/14 16:38	ICPMS204-B_140619A	69	24931
Calcium	20	mg/L		1		E200.7	06/17/14 18:20 / sld	06/13/14 16:38	ICP2-HE_140617B	64	24931
Copper	0.006	mg/L		0.001		E200.8	06/18/14 16:27 / dck	06/13/14 16:38	ICPMS204-B_140619A	69	24931
Lead	0.0011	mg/L		0.0003		E200.8	06/18/14 16:27 / dck	06/13/14 16:38	ICPMS204-B_140619A	69	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14060255-011
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 13:45
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	5	mg/L		1		E200.7	06/17/14 18:20 / sld	06/13/14 16:38	ICP2-HE_140617B	64	24931
Zinc	ND	mg/L		0.008		E200.8	06/18/14 16:27 / dck	06/13/14 16:38	ICPMS204-B_140619A	69	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SBC P2
Lab ID: H14060255-012
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 14:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	06/13/14 09:16 / cm		I24 (14410200)_140613A	33	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	90	mg/L		4		A2320 B	06/13/14 16:09 / SR		PHSC_101-H_140613A	149	R97974
Bicarbonate as HCO3	85	mg/L		4		A2320 B	06/13/14 16:09 / SR		PHSC_101-H_140613A	149	R97974
Chloride	13	mg/L		1		E300.0	06/13/14 21:54 / cm		IC102-H_140613A	40	R98024
Sulfate	50	mg/L		1		E300.0	06/13/14 21:54 / cm		IC102-H_140613A	40	R98024
Hardness as CaCO3	124	mg/L		1		A2340 B	06/17/14 18:24 / abb		CALC_140618A	225	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	7.0	mg/L		0.1		A5310 C	06/13/14 18:14 / eli-c		SUB-C187552	31	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:19 / cm		FIA203-HE_140613C	45	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:54 / cm		FIA203-HE_140613A	32	R97982
Nitrogen, Total	0.41	mg/L		0.05		A4500 N-C	06/17/14 11:54 / cm	06/16/14 13:51	FIA203-HE_140617A	29	24952
Phosphorus, Total as P	0.084	mg/L		0.005		E365.1	06/18/14 09:03 / cm	06/16/14 15:23	FIA202-HE_140618A	36	24956
METALS, DISSOLVED											
Arsenic	0.029	mg/L		0.001		E200.8	06/18/14 16:32 / dck		ICPMS204-B_140619A	70	R98112
Cadmium	0.00006	mg/L		0.00003		E200.8	06/18/14 16:32 / dck		ICPMS204-B_140619A	70	R98112
Copper	0.010	mg/L		0.001		E200.8	06/18/14 16:32 / dck		ICPMS204-B_140619A	70	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 16:32 / dck		ICPMS204-B_140619A	70	R98112
Zinc	ND	mg/L		0.008		E200.8	06/18/14 16:32 / dck		ICPMS204-B_140619A	70	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.028	mg/L		0.001		E200.8	06/18/14 16:36 / dck	06/13/14 16:38	ICPMS204-B_140619A	71	24931
Cadmium	0.00009	mg/L		0.00003		E200.8	06/18/14 16:36 / dck	06/13/14 16:38	ICPMS204-B_140619A	71	24931
Calcium	35	mg/L		1		E200.7	06/17/14 18:24 / sld	06/13/14 16:38	ICP2-HE_140617B	65	24931
Copper	0.011	mg/L		0.001		E200.8	06/18/14 16:36 / dck	06/13/14 16:38	ICPMS204-B_140619A	71	24931
Lead	0.0006	mg/L		0.0003		E200.8	06/18/14 16:36 / dck	06/13/14 16:38	ICPMS204-B_140619A	71	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SBC P2
Lab ID: H14060255-012
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 14:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	06/17/14 18:24 / sld	06/13/14 16:38	ICP2-HE_140617B	65	24931
Zinc	0.009	mg/L		0.008		E200.8	06/18/14 16:36 / dck	06/13/14 16:38	ICPMS204-B_140619A	71	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14060255-013
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 15:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	06/13/14 09:17 / cm		I24 (14410200)_140613A	34	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L	H	4		A2320 B	06/26/14 17:51 / SR		PHSC_101-H_140626A	134	R98319
Bicarbonate as HCO3	ND	mg/L	H	4		A2320 B	06/26/14 17:51 / SR		PHSC_101-H_140626A	134	R98319
Chloride	ND	mg/L		1		E300.0	06/13/14 22:05 / cm		IC102-H_140613A	41	R98024
Sulfate	ND	mg/L		1		E300.0	06/13/14 22:05 / cm		IC102-H_140613A	41	R98024
Hardness as CaCO3	ND	mg/L		1		A2340 B	06/17/14 18:28 / abb		CALC_140618A	236	R98078
-Alkalinity was confirmed by duplicate analysis. The re-analysis is reported.											
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.3	mg/L		0.1		A5310 C	06/13/14 18:24 / eli-c		SUB-C187552	32	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:20 / cm		FIA203-HE_140613C	46	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:55 / cm		FIA203-HE_140613A	33	R97982
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	06/17/14 11:55 / cm	06/16/14 13:51	FIA203-HE_140617A	30	24952
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	06/18/14 09:04 / cm	06/16/14 15:23	FIA202-HE_140618A	37	24956
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	06/18/14 16:40 / dck		ICPMS204-B_140619A	72	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 16:40 / dck		ICPMS204-B_140619A	72	R98112
Copper	ND	mg/L		0.001		E200.8	06/18/14 16:40 / dck		ICPMS204-B_140619A	72	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 16:40 / dck		ICPMS204-B_140619A	72	R98112
Zinc	ND	mg/L		0.008		E200.8	06/27/14 10:10 / dck		ICPMS204-B_140626A	80	R98393
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	06/18/14 17:32 / dck	06/13/14 16:38	ICPMS204-B_140619A	76	24931
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 17:32 / dck	06/13/14 16:38	ICPMS204-B_140619A	76	24931
Calcium	ND	mg/L		1		E200.7	06/17/14 18:28 / sld	06/13/14 16:38	ICP2-HE_140617B	66	24931
Copper	ND	mg/L		0.001		E200.8	06/18/14 17:32 / dck	06/13/14 16:38	ICPMS204-B_140619A	76	24931
Lead	ND	mg/L		0.0003		E200.8	06/18/14 17:32 / dck	06/13/14 16:38	ICPMS204-B_140619A	76	24931

Report Definitions:
RL - Analyte reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14060255-013
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 15:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	06/17/14 18:28 / sld	06/13/14 16:38	ICP2-HE_140617B	66	24931
Zinc	ND	mg/L		0.008		E200.8	06/18/14 17:32 / dck	06/13/14 16:38	ICPMS204-B_140619A	76	24931

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14060255-014
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 15:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	06/13/14 09:17 / cm		I24 (14410200)_140613A	35	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	48	mg/L		4		A2320 B	06/13/14 16:21 / SR		PHSC_101-H_140613A	153	R97974
Bicarbonate as HCO3	58	mg/L		4		A2320 B	06/13/14 16:21 / SR		PHSC_101-H_140613A	153	R97974
Chloride	ND	mg/L		1		E300.0	06/13/14 22:16 / cm		IC102-H_140613A	42	R98024
Sulfate	5	mg/L		1		E300.0	06/13/14 22:16 / cm		IC102-H_140613A	42	R98024
Hardness as CaCO3	46	mg/L		1		A2340 B	06/18/14 13:36 / abb		CALC_140620A	234	R98175
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.8	mg/L		0.1		A5310 C	06/13/14 18:34 / eli-c		SUB-C187552	33	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:22 / cm		FIA203-HE_140613C	47	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:56 / cm		FIA203-HE_140613A	34	R97982
Nitrogen, Total	0.15	mg/L		0.05		A4500 N-C	06/17/14 11:59 / cm	06/16/14 13:51	FIA203-HE_140617A	33	24952
Phosphorus, Total as P	0.026	mg/L		0.005		E365.1	06/18/14 09:07 / cm	06/16/14 15:23	FIA202-HE_140618A	40	24956
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	06/18/14 17:54 / dck		ICPMS204-B_140619A	77	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 17:54 / dck		ICPMS204-B_140619A	77	R98112
Copper	0.003	mg/L		0.001		E200.8	06/18/14 17:54 / dck		ICPMS204-B_140619A	77	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 17:54 / dck		ICPMS204-B_140619A	77	R98112
Zinc	0.010	mg/L		0.008		E200.8	06/18/14 17:54 / dck		ICPMS204-B_140619A	77	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	06/18/14 18:21 / dck	06/13/14 16:40	ICPMS204-B_140619A	83	24932
Cadmium	0.00010	mg/L		0.00003		E200.8	06/18/14 18:21 / dck	06/13/14 16:40	ICPMS204-B_140619A	83	24932
Calcium	13	mg/L		1		E200.7	06/18/14 13:36 / sld	06/13/14 16:40	ICP2-HE_140618A	28	24932
Copper	0.007	mg/L		0.001		E200.8	06/18/14 18:21 / dck	06/13/14 16:40	ICPMS204-B_140619A	83	24932
Lead	0.0014	mg/L		0.0003		E200.8	06/18/14 18:21 / dck	06/13/14 16:40	ICPMS204-B_140619A	83	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14060255-014
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 15:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	3	mg/L		1		E200.7	06/17/14 19:13 / sld	06/13/14 16:40	ICP2-HE_140617B	78	24932
Zinc	ND	mg/L		0.008		E200.8	06/18/14 18:21 / dck	06/13/14 16:40	ICPMS204-B_140619A	83	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14060255-015
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 15:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	06/13/14 09:17 / cm		I24 (14410200)_140613A	36	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	48	mg/L		4		A2320 B	06/13/14 16:50 / SR		PHSC_101-H_140613A	160	R97974
Bicarbonate as HCO3	57	mg/L		4		A2320 B	06/13/14 16:50 / SR		PHSC_101-H_140613A	160	R97974
Chloride	ND	mg/L		1		E300.0	06/13/14 22:49 / cm		IC102-H_140613A	45	R98024
Sulfate	6	mg/L		1		E300.0	06/13/14 22:49 / cm		IC102-H_140613A	45	R98024
Hardness as CaCO3	47	mg/L		1		A2340 B	06/18/14 13:58 / abb		CALC_140620A	245	R98175
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.9	mg/L		0.1		A5310 C	06/13/14 18:45 / eli-c		SUB-C187552	34	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:23 / cm		FIA203-HE_140613C	48	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:57 / cm		FIA203-HE_140613A	35	R97982
Nitrogen, Total	0.21	mg/L		0.05		A4500 N-C	06/17/14 12:00 / cm	06/16/14 13:51	FIA203-HE_140617A	34	24952
Phosphorus, Total as P	0.026	mg/L		0.005		E365.1	06/18/14 09:08 / cm	06/16/14 15:23	FIA202-HE_140618A	41	24956
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	06/18/14 18:51 / dck		ICPMS204-B_140619A	90	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 18:51 / dck		ICPMS204-B_140619A	90	R98112
Copper	0.003	mg/L		0.001		E200.8	06/18/14 18:51 / dck		ICPMS204-B_140619A	90	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 18:51 / dck		ICPMS204-B_140619A	90	R98112
Zinc	0.022	mg/L		0.008		E200.8	06/18/14 18:51 / dck		ICPMS204-B_140619A	90	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	06/18/14 18:55 / dck	06/13/14 16:40	ICPMS204-B_140619A	91	24932
Cadmium	0.00010	mg/L		0.00003		E200.8	06/18/14 18:55 / dck	06/13/14 16:40	ICPMS204-B_140619A	91	24932
Calcium	13	mg/L		1		E200.7	06/18/14 13:58 / sld	06/13/14 16:40	ICP2-HE_140618A	34	24932
Copper	0.007	mg/L		0.001		E200.8	06/18/14 18:55 / dck	06/13/14 16:40	ICPMS204-B_140619A	91	24932
Lead	0.0016	mg/L		0.0003		E200.8	06/18/14 18:55 / dck	06/13/14 16:40	ICPMS204-B_140619A	91	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14060255-015
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/11/14 15:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	3	mg/L		1		E200.7	06/17/14 19:28 / sld	06/13/14 16:40	ICP2-HE_140617B	82	24932
Zinc	ND	mg/L		0.008		E200.8	06/18/14 18:55 / dck	06/13/14 16:40	ICPMS204-B_140619A	91	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14060255-016
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 12:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	20	mg/L		1		A2540 D	06/13/14 09:18 / cm		I24 (14410200)_140613A	37	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	06/13/14 17:00 / SR		PHSC_101-H_140613A	164	R97974
Bicarbonate as HCO3	150	mg/L		4		A2320 B	06/13/14 17:00 / SR		PHSC_101-H_140613A	164	R97974
Chloride	3	mg/L		1		E300.0	06/13/14 23:23 / cm		IC102-H_140613A	48	R98024
Sulfate	37	mg/L		1		E300.0	06/13/14 23:23 / cm		IC102-H_140613A	48	R98024
Hardness as CaCO3	144	mg/L		1		A2340 B	06/18/14 14:02 / abb		CALC_140620A	256	R98175
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.6	mg/L		0.1		A5310 C	06/13/14 20:11 / eli-c		SUB-C187552	37	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:24 / cm		FIA203-HE_140613C	49	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 09:59 / cm		FIA203-HE_140613A	36	R97982
Nitrogen, Total	0.31	mg/L		0.05		A4500 N-C	06/17/14 12:01 / cm	06/16/14 13:51	FIA203-HE_140617A	35	24952
Phosphorus, Total as P	0.051	mg/L		0.005		E365.1	06/18/14 09:09 / cm	06/16/14 15:23	FIA202-HE_140618A	42	24956
METALS, DISSOLVED											
Arsenic	0.012	mg/L		0.001		E200.8	06/18/14 19:00 / dck		ICPMS204-B_140619A	92	R98112
Cadmium	0.00005	mg/L		0.00003		E200.8	06/18/14 19:00 / dck		ICPMS204-B_140619A	92	R98112
Copper	0.009	mg/L		0.001		E200.8	06/18/14 19:00 / dck		ICPMS204-B_140619A	92	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 19:00 / dck		ICPMS204-B_140619A	92	R98112
Zinc	0.009	mg/L		0.008		E200.8	06/18/14 19:00 / dck		ICPMS204-B_140619A	92	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.015	mg/L		0.001		E200.8	06/18/14 19:04 / dck	06/13/14 16:40	ICPMS204-B_140619A	93	24932
Cadmium	0.00014	mg/L		0.00003		E200.8	06/18/14 19:04 / dck	06/13/14 16:40	ICPMS204-B_140619A	93	24932
Calcium	42	mg/L		1		E200.7	06/18/14 14:02 / sld	06/13/14 16:40	ICP2-HE_140618A	35	24932
Copper	0.030	mg/L		0.001		E200.8	06/18/14 19:04 / dck	06/13/14 16:40	ICPMS204-B_140619A	93	24932
Lead	0.0038	mg/L		0.0003		E200.8	06/18/14 19:04 / dck	06/13/14 16:40	ICPMS204-B_140619A	93	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14060255-016
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 12:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	06/18/14 14:02 / sld	06/13/14 16:40	ICP2-HE_140618A	35	24932
Mercury	0.000041	mg/L		5E-06		E245.1	06/25/14 10:40 / sbk	06/24/14 10:58	HGCV202-H_140625A	6	25051
Zinc	0.030	mg/L		0.008		E200.8	06/18/14 19:04 / dck	06/13/14 16:40	ICPMS204-B_140619A	93	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14060255-017
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 13:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	06/13/14 09:19 / cm		I24 (14410200)_140613A	40	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L	H	4		A2320 B	06/26/14 18:04 / SR		PHSC_101-H_140626A	138	R98319
Bicarbonate as HCO3	ND	mg/L	H	4		A2320 B	06/26/14 18:04 / SR		PHSC_101-H_140626A	138	R98319
Chloride	ND	mg/L		1		E300.0	06/13/14 23:34 / cm		IC102-H_140613A	49	R98024
Sulfate	ND	mg/L		1		E300.0	06/13/14 23:34 / cm		IC102-H_140613A	49	R98024
Hardness as CaCO3	ND	mg/L		1		A2340 B	06/18/14 14:06 / abb		CALC_140620A	267	R98175
-Alkalinity was confirmed by duplicate analysis. The re-analysis is reported.											
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.4	mg/L		0.1		A5310 C	06/13/14 20:20 / eli-c		SUB-C187552	38	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:25 / cm		FIA203-HE_140613C	50	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 10:00 / cm		FIA203-HE_140613A	37	R97982
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	06/17/14 12:02 / cm	06/16/14 13:51	FIA203-HE_140617A	36	24952
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	06/18/14 09:15 / cm	06/16/14 15:26	FIA202-HE_140618A	47	24957
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	06/18/14 19:09 / dck		ICPMS204-B_140619A	94	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 19:09 / dck		ICPMS204-B_140619A	94	R98112
Copper	ND	mg/L		0.001		E200.8	06/18/14 19:09 / dck		ICPMS204-B_140619A	94	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 19:09 / dck		ICPMS204-B_140619A	94	R98112
Zinc	0.014	mg/L		0.008		E200.8	06/18/14 19:09 / dck		ICPMS204-B_140619A	94	R98112
-Zinc was confirmed by duplicate analysis.											
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	06/18/14 19:13 / dck	06/13/14 16:40	ICPMS204-B_140619A	95	24932
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 19:13 / dck	06/13/14 16:40	ICPMS204-B_140619A	95	24932
Calcium	ND	mg/L		1		E200.7	06/18/14 14:06 / sld	06/13/14 16:40	ICP2-HE_140618A	36	24932
Copper	ND	mg/L		0.001		E200.8	06/18/14 19:13 / dck	06/13/14 16:40	ICPMS204-B_140619A	95	24932
Lead	ND	mg/L		0.0003		E200.8	06/18/14 19:13 / dck	06/13/14 16:40	ICPMS204-B_140619A	95	24932

Report Definitions:
RL - Analyte reporting limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14060255-017
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 13:00
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	06/18/14 14:06 / sld	06/13/14 16:40	ICP2-HE_140618A	36	24932
Mercury	ND	mg/L		5E-06		E245.1	06/25/14 10:45 / sbk	06/24/14 10:58	HGCV202-H_140625A	7	25051
Zinc	ND	mg/L		0.008		E200.8	06/18/14 19:13 / dck	06/13/14 16:40	ICPMS204-B_140619A	95	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14060255-018
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 13:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	18	mg/L		1		A2540 D	06/13/14 09:19 / cm		I24 (14410200)_140613A	41	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	06/13/14 17:27 / SR		PHSC_101-H_140613A	169	R97974
Bicarbonate as HCO3	130	mg/L		4		A2320 B	06/13/14 17:27 / SR		PHSC_101-H_140613A	169	R97974
Chloride	2	mg/L		1		E300.0	06/13/14 23:45 / cm		IC102-H_140613A	50	R98024
Sulfate	7	mg/L		1		E300.0	06/13/14 23:45 / cm		IC102-H_140613A	50	R98024
Hardness as CaCO3	104	mg/L		1		A2340 B	06/18/14 14:10 / abb		CALC_140620A	278	R98175
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.9	mg/L		0.1		A5310 C	06/13/14 20:31 / eli-c		SUB-C187552	39	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:26 / cm		FIA203-HE_140613C	51	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 10:01 / cm		FIA203-HE_140613A	38	R97982
Nitrogen, Total	0.35	mg/L		0.05		A4500 N-C	06/17/14 12:03 / cm	06/16/14 13:51	FIA203-HE_140617A	37	24952
Phosphorus, Total as P	0.046	mg/L		0.005		E365.1	06/18/14 09:18 / cm	06/16/14 15:26	FIA202-HE_140618A	50	24957
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	06/18/14 19:17 / dck		ICPMS204-B_140619A	96	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 19:17 / dck		ICPMS204-B_140619A	96	R98112
Copper	0.001	mg/L		0.001		E200.8	06/18/14 19:17 / dck		ICPMS204-B_140619A	96	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 19:17 / dck		ICPMS204-B_140619A	96	R98112
Zinc	0.011	mg/L		0.008		E200.8	06/18/14 19:17 / dck		ICPMS204-B_140619A	96	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	06/18/14 19:22 / dck	06/13/14 16:40	ICPMS204-B_140619A	97	24932
Cadmium	0.00006	mg/L		0.00003		E200.8	06/18/14 19:22 / dck	06/13/14 16:40	ICPMS204-B_140619A	97	24932
Calcium	29	mg/L		1		E200.7	06/18/14 14:10 / sld	06/13/14 16:40	ICP2-HE_140618A	37	24932
Copper	0.003	mg/L		0.001		E200.8	06/18/14 19:22 / dck	06/13/14 16:40	ICPMS204-B_140619A	97	24932
Lead	0.0051	mg/L		0.0003		E200.8	06/18/14 19:22 / dck	06/13/14 16:40	ICPMS204-B_140619A	97	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14060255-018
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 13:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	06/18/14 14:10 / sld	06/13/14 16:40	ICP2-HE_140618A	37	24932
Mercury	0.00036	mg/L		5E-06		E245.1	06/25/14 10:49 / sbk	06/24/14 10:58	HGCV202-H_140625A	8	25051
Zinc	0.017	mg/L		0.008		E200.8	06/18/14 19:22 / dck	06/13/14 16:40	ICPMS204-B_140619A	97	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14060255-019
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 13:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	15	mg/L		1		A2540 D	06/13/14 09:20 / cm		I24 (14410200)_140613A	42	TSS140613A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	06/13/14 17:32 / SR		PHSC_101-H_140613A	171	R97974
Bicarbonate as HCO3	130	mg/L		4		A2320 B	06/13/14 17:32 / SR		PHSC_101-H_140613A	171	R97974
Chloride	2	mg/L		1		E300.0	06/13/14 23:56 / cm		IC102-H_140613A	51	R98024
Sulfate	7	mg/L		1		E300.0	06/13/14 23:56 / cm		IC102-H_140613A	51	R98024
Hardness as CaCO3	108	mg/L		1		A2340 B	06/17/14 19:50 / abb		CALC_140618A	247	R98078
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.9	mg/L		0.1		A5310 C	06/13/14 20:41 / eli-c		SUB-C187552	40	C_41673
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	06/13/14 15:28 / cm		FIA203-HE_140613C	52	R97999
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/13/14 10:02 / cm		FIA203-HE_140613A	39	R97982
Nitrogen, Total	0.48	mg/L		0.05		A4500 N-C	06/17/14 12:05 / cm	06/16/14 13:51	FIA203-HE_140617A	38	24952
Phosphorus, Total as P	0.045	mg/L		0.005		E365.1	06/18/14 09:19 / cm	06/16/14 15:26	FIA202-HE_140618A	51	24957
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	06/18/14 19:26 / dck		ICPMS204-B_140619A	98	R98112
Cadmium	ND	mg/L		0.00003		E200.8	06/18/14 19:26 / dck		ICPMS204-B_140619A	98	R98112
Copper	0.001	mg/L		0.001		E200.8	06/18/14 19:26 / dck		ICPMS204-B_140619A	98	R98112
Lead	ND	mg/L		0.0003		E200.8	06/18/14 19:26 / dck		ICPMS204-B_140619A	98	R98112
Zinc	0.010	mg/L		0.008		E200.8	06/18/14 19:26 / dck		ICPMS204-B_140619A	98	R98112
METALS, TOTAL RECOVERABLE											
Arsenic	0.011	mg/L		0.001		E200.8	06/18/14 19:44 / dck	06/13/14 16:40	ICPMS204-B_140619A	102	24932
Cadmium	0.00006	mg/L		0.00003		E200.8	06/18/14 19:44 / dck	06/13/14 16:40	ICPMS204-B_140619A	102	24932
Calcium	31	mg/L		1		E200.7	06/17/14 19:50 / sld	06/13/14 16:40	ICP2-HE_140617B	88	24932
Copper	0.003	mg/L		0.001		E200.8	06/18/14 19:44 / dck	06/13/14 16:40	ICPMS204-B_140619A	102	24932
Lead	0.0052	mg/L		0.0003		E200.8	06/18/14 19:44 / dck	06/13/14 16:40	ICPMS204-B_140619A	102	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14060255-019
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/10/14 13:30
DateReceived: 06/12/14
Report Date: 07/07/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	06/17/14 19:50 / sld	06/13/14 16:40	ICP2-HE_140617B	88	24932
Mercury	0.00030	mg/L		5E-06		E245.1	06/25/14 10:53 / sbk	06/24/14 10:58	HGCV202-H_140625A	9	25051
Zinc	0.016	mg/L		0.008		E200.8	06/18/14 19:44 / dck	06/13/14 16:40	ICPMS204-B_140619A	102	24932

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140625wa

Date: *07-Jul-14*

Run ID :Run Order: **HGCV202-H_140625A: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **06/25/14 10:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002		100	90	110				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 2** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **06/25/14 10:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00021	0.00010	0.0002		103	95	105				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 34** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **06/25/14 13:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002		98	90	110				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140625wa

Date: *07-Jul-14*

Run ID :Run Order: **HGCV202-H_140625A: 69** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **SW7470A**

Analysis Date: **06/25/14 16:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000195	0.00010	0.0002		97	90	110				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24931

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140617B: 35** SampType: **Method Blank** Lab ID: **MB-24931** Method: **E200.7**
Analysis Date: **06/17/14 16:32** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.04	0.03									
Magnesium	ND	0.03									

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 36** SampType: **Laboratory Control Sample** Lab ID: **LCS-24931** Method: **E200.7**
Analysis Date: **06/17/14 16:36** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.6	1.0	25	0.03815	94	85	115				
Magnesium	23.3	1.0	25		93	85	115				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 38** SampType: **Serial Dilution** Lab ID: **H14060243-001CDIL** Method: **E200.7**
Analysis Date: **06/17/14 16:43** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	79.4	1.0				0	0	75.07	5.6	10	
Magnesium	51.5	1.0				0	0	48.71	5.6	10	

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 39** SampType: **Sample Matrix Spike** Lab ID: **H14060243-001CMS3** Method: **E200.7**
Analysis Date: **06/17/14 16:47** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	122	1.0	50	75.07	93	70	130				
Magnesium	97.8	1.0	50	48.71	98	70	130				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 40** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060243-001CMSD3** Method: **E200.7**
Analysis Date: **06/17/14 16:51** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	117	1.0	50	75.07	84	70	130	121.7	4.0	20	
Magnesium	93.9	1.0	50	48.71	90	70	130	97.76	4.1	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24931

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140617B: 40** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060243-001CMSD3** Method: **E200.7**
Analysis Date: **06/17/14 16:51** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 53** SampType: **Serial Dilution** Lab ID: **H14060255-004CDIL** Method: **E200.7**
Analysis Date: **06/17/14 17:39** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	41.9	1.0				0	0	39.33	6.4	10	
Magnesium	9.24	1.0				0	0	8.552	7.7	10	

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 54** SampType: **Sample Matrix Spike** Lab ID: **H14060255-004CMS3** Method: **E200.7**
Analysis Date: **06/17/14 17:43** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	63.4	1.0	25	39.33	96	70	130				
Magnesium	32.4	1.0	25	8.552	96	70	130				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICP2-HE_140617B: 57** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-004CMSD3** Method: **E200.7**
Analysis Date: **06/17/14 17:54** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	64.7	1.0	25	39.33	101	70	130	63.44	1.9	20	
Magnesium	34.7	1.0	25	8.552	105	70	130	32.44	6.8	20	

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24931

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 24** SampType: **Method Blank** Lab ID: **MB-24931** Method: **E200.8**
Analysis Date: **06/18/14 13:11** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6E-05	6E-05									
Cadmium	ND	3E-05									
Copper	ND	0.0003									
Lead	ND	3E-05									
Zinc	0.002	0.001									

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICPMS204-B_140619A: 25** SampType: **Laboratory Control Sample** Lab ID: **LCS-24931** Method: **E200.8**
Analysis Date: **06/18/14 13:16** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.490	0.0010	0.5	0.0000594	98	85	115				
Cadmium	0.245	0.0010	0.25		98	85	115				
Copper	0.473	0.0050	0.5		95	85	115				
Lead	0.484	0.0010	0.5		97	85	115				
Zinc	0.483	0.010	0.5	0.002039	96	85	115				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICPMS204-B_140619A: 29** SampType: **Sample Matrix Spike** Lab ID: **H14060243-001CMS3** Method: **E200.8**
Analysis Date: **06/18/14 13:33** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.978	0.0010	1	0.004798	97	70	130				
Cadmium	0.448	0.0010	0.5	0.0000986	90	70	130				
Copper	0.950	0.0050	1	0.008862	94	70	130				
Lead	0.933	0.0010	1	0.00505	93	70	130				
Zinc	0.958	0.010	1	0.03258	93	70	130				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICPMS204-B_140619A: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060243-001CMSD3** Method: **E200.8**
Analysis Date: **06/18/14 13:37** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.970	0.0010	1	0.004798	97	70	130	0.9776	0.8	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24931

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060243-001CMSD3** Method: **E200.8**

Analysis Date: **06/18/14 13:37** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.448	0.0010	0.5	0.0000986	90	70	130	0.4482	0.0	20	
Copper	0.935	0.0050	1	0.008862	93	70	130	0.9496	1.5	20	
Lead	0.940	0.0010	1	0.00505	94	70	130	0.9328	0.8	20	
Zinc	0.946	0.010	1	0.03258	91	70	130	0.958	1.3	20	

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICPMS204-B_140619A: 45** SampType: **Sample Matrix Spike** Lab ID: **H14060255-004CMS3** Method: **E200.8**

Analysis Date: **06/18/14 14:42** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.514	0.0010	0.5	0.02437	98	70	130				
Cadmium	0.234	0.0010	0.25	0.0002469	94	70	130				
Copper	0.531	0.0050	0.5	0.06324	94	70	130				
Lead	0.473	0.0010	0.5	0.007436	93	70	130				
Zinc	0.508	0.010	0.5	0.04925	92	70	130				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Run ID :Run Order: **ICPMS204-B_140619A: 46** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-004CMSD3** Method: **E200.8**

Analysis Date: **06/18/14 14:46** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.0010	0.5	0.02437	98	70	130	0.5142	0.2	20	
Cadmium	0.240	0.0010	0.25	0.0002469	96	70	130	0.2343	2.5	20	
Copper	0.538	0.0050	0.5	0.06324	95	70	130	0.5311	1.3	20	
Lead	0.492	0.0010	0.5	0.007436	97	70	130	0.4734	3.9	20	
Zinc	0.516	0.010	0.5	0.04925	93	70	130	0.5083	1.5	20	

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24932

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140617B: 76** SampType: **Method Blank** Lab ID: **MB-24932** Method: **E200.7**
Analysis Date: **06/17/14 19:05** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.04	0.03									
Magnesium	ND	0.01									

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 77** SampType: **Laboratory Control Sample** Lab ID: **LCS-24932** Method: **E200.7**
Analysis Date: **06/17/14 19:09** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.1	1.0	25	0.03989	96	85	115				
Magnesium	26.0	1.0	25		104	85	115				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 79** SampType: **Serial Dilution** Lab ID: **H14060255-014CDIL** Method: **E200.7**
Analysis Date: **06/17/14 19:17** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	13.9	1.0				0	0	13.53	3.0	10	
Magnesium	3.30	1.0				0	0	3.239	1.9	10	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 80** SampType: **Sample Matrix Spike** Lab ID: **H14060255-014CMS3** Method: **E200.7**
Analysis Date: **06/17/14 19:20** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	37.5	1.0	25	13.53	96	70	130				
Magnesium	29.8	1.0	25	3.239	106	70	130				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 81** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-014CMSD3** Method: **E200.7**
Analysis Date: **06/17/14 19:24** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	36.2	1.0	25	13.53	91	70	130	37.53	3.6	20	
Magnesium	28.8	1.0	25	3.239	102	70	130	29.77	3.2	20	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24932

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140617B: 89** SampType: **Serial Dilution** Lab ID: **H14060255-019CDIL** Method: **E200.7**
Analysis Date: **06/17/14 19:54** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	32.9	1.0				0	0	30.52	7.6	10	
Magnesium	8.46	1.0				0	0	7.707	9.4	10	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 90** SampType: **Sample Matrix Spike** Lab ID: **H14060255-019CMS3** Method: **E200.7**
Analysis Date: **06/17/14 19:58** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	55.7	1.0	25	30.52	101	70	130				
Magnesium	32.3	1.0	25	7.707	99	70	130				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 91** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-019CMSD3** Method: **E200.7**
Analysis Date: **06/17/14 20:01** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	55.1	1.0	25	30.52	98	70	130	55.74	1.2	20	
Magnesium	32.1	1.0	25	7.707	97	70	130	32.34	0.9	20	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 97** SampType: **Serial Dilution** Lab ID: **H14060256-019CDIL** Method: **E200.7**
Analysis Date: **06/17/14 20:24** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	39.0	1.0				0	0	38.6	1.1	10	
Magnesium	9.15	1.0				0	0	9.074	0.9	10	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140618A: 26** SampType: **Method Blank** Lab ID: **MB-24932** Method: **E200.7**
Analysis Date: **06/18/14 13:29** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.04	0.03									
Magnesium	ND	0.01									

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24932

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140618A: 27** SampType: **Laboratory Control Sample** Lab ID: **LCS-24932** Method: **E200.7**
Analysis Date: **06/18/14 13:32** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.0	1.0	25	0.03842	96	85	115				
Magnesium	23.9	1.0	25		96	85	115				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140618A: 29** SampType: **Serial Dilution** Lab ID: **H14060255-014CDIL** Method: **E200.7**
Analysis Date: **06/18/14 13:40** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	13.5	1.0				0	0	12.87	4.4	10	
Magnesium	2.72	1.0				0	0	2.701	0.8	10	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140618A: 30** SampType: **Sample Matrix Spike** Lab ID: **H14060255-014CMS3** Method: **E200.7**
Analysis Date: **06/18/14 13:44** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	37.2	1.0	25	12.87	97	70	130				
Magnesium	26.6	1.0	25	2.701	95	70	130				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140618A: 33** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-014CMSD3** Method: **E200.7**
Analysis Date: **06/18/14 13:55** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	35.2	1.0	25	12.87	89	70	130	37.21	5.6	20	
Magnesium	24.6	1.0	25	2.701	88	70	130	26.56	7.5	20	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24932

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 79** SampType: **Method Blank** Lab ID: **MB-24932** Method: **E200.8**
Analysis Date: **06/18/14 18:03** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	6E-05									
Cadmium	ND	3E-05									
Copper	ND	0.0003									
Lead	ND	3E-05									
Zinc	ND	0.001									

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 80** SampType: **Laboratory Control Sample** Lab ID: **LCS-24932** Method: **E200.8**
Analysis Date: **06/18/14 18:08** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.488	0.0010	0.5		98	85	115				
Cadmium	0.243	0.0010	0.25		97	85	115				
Copper	0.489	0.0050	0.5		98	85	115				
Lead	0.477	0.0010	0.5		95	85	115				
Zinc	0.485	0.010	0.5		97	85	115				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 84** SampType: **Sample Matrix Spike** Lab ID: **H14060255-014CMS3** Method: **E200.8**
Analysis Date: **06/18/14 18:25** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.511	0.0010	0.5	0.02059	98	70	130				
Cadmium	0.239	0.0010	0.25	0.0000997	96	70	130				
Copper	0.495	0.0050	0.5	0.006981	98	70	130				
Lead	0.482	0.0010	0.5	0.001446	96	70	130				
Zinc	0.482	0.010	0.5	0.00743	95	70	130				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 85** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-014CMSD3** Method: **E200.8**
Analysis Date: **06/18/14 18:29** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.502	0.0010	0.5	0.02059	96	70	130	0.5113	1.9	20	
Cadmium	0.236	0.0010	0.25	0.0000997	94	70	130	0.2389	1.3	20	
Copper	0.493	0.0050	0.5	0.006981	97	70	130	0.4947	0.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24932

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 85** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-014CMSD3** Method: **E200.8**

Analysis Date: **06/18/14 18:29** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.474	0.0010	0.5	0.001446	94	70	130	0.4819	1.7	20	
Zinc	0.479	0.010	0.5	0.00743	94	70	130	0.4822	0.6	20	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 103** SampType: **Sample Matrix Spike** Lab ID: **H14060255-019CMS3** Method: **E200.8**

Analysis Date: **06/18/14 19:48** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.498	0.0010	0.5	0.01137	97	70	130				
Cadmium	0.236	0.0010	0.25	0.0000591	94	70	130				
Copper	0.490	0.0050	0.5	0.003238	97	70	130				
Lead	0.482	0.0010	0.5	0.005227	95	70	130				
Zinc	0.487	0.010	0.5	0.01631	94	70	130				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 104** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-019CMSD3** Method: **E200.8**

Analysis Date: **06/18/14 19:52** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.497	0.0010	0.5	0.01137	97	70	130	0.4977	0.1	20	
Cadmium	0.237	0.0010	0.25	0.0000591	95	70	130	0.236	0.5	20	
Copper	0.485	0.0050	0.5	0.003238	96	70	130	0.4896	0.9	20	
Lead	0.480	0.0010	0.5	0.005227	95	70	130	0.4818	0.3	20	
Zinc	0.482	0.010	0.5	0.01631	93	70	130	0.4871	1.0	20	

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24952

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140617A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-24952** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:32** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	18.2	0.30	18.7		97	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 12** SampType: **Method Blank** Lab ID: **MB-24952** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:34** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 15** SampType: **Sample Matrix Spike** Lab ID: **H14060255-001Ams** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:37** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.12	0.10	1	0.2021	91	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 16** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-001Amsd** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:38** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.08	0.10	1	0.2021	88	90	110	1.116	3.5	20	S

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 31** SampType: **Sample Matrix Spike** Lab ID: **H14060255-013Ams** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:56** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.03	0.10	1		103	90	110				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24952

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140617A: 31** SampType: **Sample Matrix Spike** Lab ID: **H14060255-013Ams** Method: **A4500 N-C**

Analysis Date: **06/17/14 11:56** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 32** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-013Amsd** Method: **A4500 N-C**

Analysis Date: **06/17/14 11:57** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.976	0.10	1		98	90	110	1.032	5.6	20	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24956

Date: *07-Jul-14*

Run ID :Run Order: **FIA202-HE_140618A: 13** SampType: **Laboratory Control Sample** Lab ID: **LCS-24956** Method: **E365.1**
Analysis Date: **06/18/14 08:40** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.405	0.010	0.4	0.00281	100	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D**

Run ID :Run Order: **FIA202-HE_140618A: 14** SampType: **Method Blank** Lab ID: **MB-24956** Method: **E365.1**
Analysis Date: **06/18/14 08:41** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.003	0.001									

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D**

Run ID :Run Order: **FIA202-HE_140618A: 18** SampType: **Sample Matrix Spike** Lab ID: **H14060215-001Bms** Method: **E365.1**
Analysis Date: **06/18/14 08:45** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.256	0.010	0.2	0.06737	94	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D**

Run ID :Run Order: **FIA202-HE_140618A: 19** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060215-001Bmsd** Method: **E365.1**
Analysis Date: **06/18/14 08:46** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.256	0.010	0.2	0.06737	94	90	110	0.2558	0.1	20	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D**

Run ID :Run Order: **FIA202-HE_140618A: 38** SampType: **Sample Matrix Spike** Lab ID: **H14060255-013Dms** Method: **E365.1**
Analysis Date: **06/18/14 09:05** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.195	0.010	0.2	0.00228	97	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24956

Date: *07-Jul-14*

Run ID :Run Order: **FIA202-HE_140618A: 39** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-013Dmsd** Method: **E365.1**

Analysis Date: **06/18/14 09:06** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.196	0.010	0.2	0.00228	**97**	90	110	0.1954	**0.1**	20	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 24957

Date: *07-Jul-14*

Run ID :Run Order: **FIA202-HE_140618A: 43** SampType: **Laboratory Control Sample** Lab ID: **LCS-24957** Method: **E365.1**
Analysis Date: **06/18/14 09:10** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.392	0.010	0.4	0.00368	97	90	110				

Associated samples: **H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 44** SampType: **Method Blank** Lab ID: **MB-24957** Method: **E365.1**
Analysis Date: **06/18/14 09:11** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.004	0.001									

Associated samples: **H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 48** SampType: **Sample Matrix Spike** Lab ID: **H14060255-017Dms** Method: **E365.1**
Analysis Date: **06/18/14 09:16** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.199	0.010	0.2	0.00131	99	90	110				

Associated samples: **H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 49** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-017Dmsd** Method: **E365.1**
Analysis Date: **06/18/14 09:17** Units: **mg/L** **Prep Info:** Prep Date: **6/16/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.200	0.010	0.2	0.00131	99	90	110	0.1994	0.2	20	

Associated samples: **H14060255-017D, H14060255-018D, H14060255-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25051

Date: *07-Jul-14*

Run ID :Run Order: **HGCV202-H_140625A: 4** SampType: **Method Blank** Lab ID: **MB-25051** Method: **E245.1**
Analysis Date: **06/25/14 10:32** Units: **mg/L** **Prep Info:** Prep Date: **6/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1E-06	1E-06									

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 5** SampType: **Laboratory Control Sample** Lab ID: **LCS-25051** Method: **E245.1**
Analysis Date: **06/25/14 10:36** Units: **mg/L** **Prep Info:** Prep Date: **6/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000107	109	90	110				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 13** SampType: **Sample Matrix Spike** Lab ID: **H14060256-003BMS** Method: **E245.1**
Analysis Date: **06/25/14 11:10** Units: **mg/L** **Prep Info:** Prep Date: **6/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00013	0.00010	0.00015		90	70	130				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 14** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060256-003BMSD** Method: **E245.1**
Analysis Date: **06/25/14 11:14** Units: **mg/L** **Prep Info:** Prep Date: **6/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015		93	70	130	0.0001348	3.7	20	

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 25** SampType: **Sample Matrix Spike** Lab ID: **H14060256-011BMS** Method: **E245.1**
Analysis Date: **06/25/14 12:01** Units: **mg/L** **Prep Info:** Prep Date: **6/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000089	105	70	130				

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Run ID :Run Order: **HGCV202-H_140625A: 26** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060256-011BMSD** Method: **E245.1**
Analysis Date: **06/25/14 12:05** Units: **mg/L** **Prep Info:** Prep Date: **6/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00015	0.00010	0.00015	0.00000089	99	70	130	0.000159	5.8	20	

Associated samples: **H14060255-016C, H14060255-017C, H14060255-018C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_41673

Date: *07-Jul-14*

Run ID :Run Order: **SUB-C187552: 9** SampType: **Method Blank** Lab ID: **MB-41673** Method: **A5310 C**
Analysis Date: **06/13/14 14:03** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	ND	0.07									

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-41673** Method: **A5310 C**
Analysis Date: **06/13/14 14:14** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.2	0.50	10		102	90	110				

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-41673** Method: **A5310 C**
Analysis Date: **06/13/14 19:18** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.71	0.50	10		97	90	110				

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 12** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-41673** Method: **A5310 C**
Analysis Date: **06/13/14 19:30** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	10		101	90	110				

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 15** SampType: **Sample Matrix Spike** Lab ID: **H14060216-003I** Method: **A5310 C**
Analysis Date: **06/13/14 21:12** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	14.6	0.50	10	4.526	100	85	115				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_41673

Date: *07-Jul-14*

Run ID :Run Order: **SUB-C187552: 15** SampType: **Sample Matrix Spike** Lab ID: **H14060216-003I** Method: **A5310 C**
Analysis Date: **06/13/14 21:12** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 16** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060216-003I** Method: **A5310 C**
Analysis Date: **06/13/14 21:23** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	14.6	0.50	10	4.526	101	85	115	14.57	0.2	10	

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 22** SampType: **Sample Matrix Spike** Lab ID: **C14060486-001AMS** Method: **A5310 C**
Analysis Date: **06/13/14 16:08** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.34	0.50	5	3.257	102	85	115				

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 23** SampType: **Sample Matrix Spike Duplicate** Lab ID: **C14060486-001AMSD** Method: **A5310 C**
Analysis Date: **06/13/14 16:19** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.40	0.50	5	3.257	103	85	115	8.34	0.8	10	

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 24** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-41673** Method: **A5310 C**
Analysis Date: **06/13/14 16:30** Units: **mg/L** **Prep Info:** Prep Date: **6/13/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	10		101	90	110				

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_41673

Date: *07-Jul-14*

Run ID :Run Order: **SUB-C187552: 35** SampType: **Sample Matrix Spike** Lab ID: **H14060255-006E** Method: **A5310 C**

Analysis Date: **06/13/14 18:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.31	0.50	5	3.305	100	85	115				

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Run ID :Run Order: **SUB-C187552: 36** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-006E** Method: **A5310 C**

Analysis Date: **06/13/14 19:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	8.36	0.50	5	3.305	101	85	115	8.31	0.6	10	

Associated samples: **H14060255-001E, H14060255-002E, H14060255-003E, H14060255-004E, H14060255-005E, H14060255-006E, H14060255-007E, H14060255-008E, H14060255-009E, H14060255-010E, H14060255-011E, H14060255-012E, H14060255-013E, H14060255-014E, H14060255-015E, H14060255-016E, H14060255-017E, H14060255-018E, H14060255-019E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97974

Date: *07-Jul-14*

Run ID :Run Order: **PHSC_101-H_140613A: 109** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **06/13/14 13:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	2	0.9									

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 111** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **06/13/14 13:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	590	4.0	600	2.5	98	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 114** SampType: **Sample Duplicate** Lab ID: **H14060243-003ADUP** Method: **A2320 B**
Analysis Date: **06/13/14 13:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	340	4.0						337.5	2.2	10	
Bicarbonate as HCO3	420	4.0						411.1	2.2	10	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 118** SampType: **Sample Matrix Spike** Lab ID: **H14060243-004AMS** Method: **A2320 B**
Analysis Date: **06/13/14 14:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	840	4.0	600	280.4	94	80	120				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 155** SampType: **Sample Duplicate** Lab ID: **H14060255-014ADUP** Method: **A2320 B**
Analysis Date: **06/13/14 16:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	47	4.0						47.85	1.5	10	
Bicarbonate as HCO3	57	4.0						57.77	1.5	10	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97974

Date: *07-Jul-14*

Run ID :Run Order: **PHSC_101-H_140613A: 157** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **06/13/14 16:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	2	0.9									

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 159** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **06/13/14 16:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	590	4.0	600	2.3	98	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 162** SampType: **Sample Duplicate** Lab ID: **H14060255-015ADUP** Method: **A2320 B**
Analysis Date: **06/13/14 16:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	48	4.0						47.55	0.2	10	
Bicarbonate as HCO3	58	4.0						57.4	0.2	10	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 166** SampType: **Sample Matrix Spike** Lab ID: **H14060255-016AMS** Method: **A2320 B**
Analysis Date: **06/13/14 17:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	670	4.0	600	124.2	91	80	120				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **PHSC_101-H_140613A: 203** SampType: **Sample Duplicate** Lab ID: **H14060256-015ADUP** Method: **A2320 B**
Analysis Date: **06/13/14 19:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	210	4.0						202.8	1.3	10	
Bicarbonate as HCO3	250	4.0						241.6	1.6	10	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97982

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140613A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **06/13/14 09:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.974	0.010	1		97	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **06/13/14 09:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.938	0.011	1		94	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 10** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **06/13/14 09:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.479	0.010	0.5		96	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **06/13/14 09:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	-0.0105	0.010				0	0				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **06/13/14 09:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	ND	0.001									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97982

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140613A: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **06/13/14 09:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 16** SampType: **Sample Matrix Spike** Lab ID: **H14060255-001DMS** Method: **E353.2**
Analysis Date: **06/13/14 09:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.938	0.011	1	0.006447	93	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 17** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-001DMSD** Method: **E353.2**
Analysis Date: **06/13/14 09:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.946	0.011	1	0.006447	94	90	110	0.9384	0.8	20	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 27** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **06/13/14 09:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.475	0.010	0.5		95	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 29** SampType: **Sample Matrix Spike** Lab ID: **H14060255-010DMS** Method: **E353.2**
Analysis Date: **06/13/14 09:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.923	0.011	1		92	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97982

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140613A: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-010DMSD** Method: **E353.2**

Analysis Date: **06/13/14 09:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.939	0.011	1		94	90	110	0.9228	1.7	20	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 43** SampType: **Sample Matrix Spike** Lab ID: **H14060256-001CMS** Method: **E353.2**

Analysis Date: **06/13/14 10:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.08	0.011	1	0.1478	93	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613A: 44** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060256-001CMSD** Method: **E353.2**

Analysis Date: **06/13/14 10:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.06	0.011	1	0.1478	91	90	110	1.077	1.5	20	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97999

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140613C: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **06/13/14 14:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	15.5	0.50	15.2		102	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **06/13/14 14:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.05	0.055	1		105	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **06/13/14 14:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	-0.0546	0.050				0	0				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 25** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **06/13/14 14:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.467	0.050	0.5		93	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 29** SampType: **Sample Matrix Spike** Lab ID: **H14060255-001DMS** Method: **E350.1**
Analysis Date: **06/13/14 15:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.928	0.055	1		93	80	120				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R97999

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140613C: 29** SampType: **Sample Matrix Spike** Lab ID: **H14060255-001DMS** Method: **E350.1**
Analysis Date: **06/13/14 15:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-001DMSD** Method: **E350.1**
Analysis Date: **06/13/14 15:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.936	0.055	1		94	80	120	0.9276	0.9	10	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 39** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **06/13/14 15:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.458	0.050	0.5		92	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 42** SampType: **Sample Matrix Spike** Lab ID: **H14060255-010DMS** Method: **E350.1**
Analysis Date: **06/13/14 15:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.942	0.055	1		94	80	120				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA203-HE_140613C: 43** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-010DMSD** Method: **E350.1**
Analysis Date: **06/13/14 15:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.934	0.055	1		93	80	120	0.942	0.8	10	

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98024

Date: *07-Jul-14*

Run ID :Run Order: **IC102-H_140613A: 12** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**

Analysis Date: **06/13/14 16:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100		103	90	110				
Sulfate	420	1.0	400		105	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 13** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**

Analysis Date: **06/13/14 16:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.04	0.008									
Sulfate	0.2	0.08									

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 14** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**

Analysis Date: **06/13/14 17:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	46	1.0	50	0.038	91	90	110				
Sulfate	190	1.0	200	0.174	95	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 15** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV061314-1** Method: **E300.0**

Analysis Date: **06/13/14 17:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				
Sulfate	420	1.0	400		105	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98024

Date: *07-Jul-14*

Run ID :Run Order: **IC102-H_140613A: 18** SampType: **Sample Matrix Spike** Lab ID: **H14060243-001AMS** Method: **E300.0**
Analysis Date: **06/13/14 17:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52	1.0	50	5.368	94	90	110				
Sulfate	420	1.0	200	206.8	107	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 19** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060243-001AMSD** Method: **E300.0**
Analysis Date: **06/13/14 18:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53	1.0	50	5.368	95	90	110	52.36	1.2	20	
Sulfate	420	1.0	200	206.8	108	90	110	420	0.8	20	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 29** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV061314-2** Method: **E300.0**
Analysis Date: **06/13/14 19:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				
Sulfate	420	1.0	400		105	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 32** SampType: **Sample Matrix Spike** Lab ID: **H14060255-005AMS** Method: **E300.0**
Analysis Date: **06/13/14 20:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	51	1.0	50	3.351	95	90	110				
Sulfate	240	1.0	200	32.76	104	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98024

Date: *07-Jul-14*

Run ID :Run Order: **IC102-H_140613A: 33** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-005AMSD** Method: **E300.0**
Analysis Date: **06/13/14 20:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	50	1.0	50	3.351	93	90	110	50.6	1.1	20	
Sulfate	240	1.0	200	32.76	104	90	110	240.3	0.1	20	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 43** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV061314-3** Method: **E300.0**
Analysis Date: **06/13/14 22:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				
Sulfate	420	1.0	400		106	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 46** SampType: **Sample Matrix Spike** Lab ID: **H14060255-015AMS** Method: **E300.0**
Analysis Date: **06/13/14 23:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	46	1.0	50	0.422	91	90	110				
Sulfate	200	1.0	200	5.52	99	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **IC102-H_140613A: 47** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-015AMSD** Method: **E300.0**
Analysis Date: **06/13/14 23:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	47	1.0	50	0.422	92	90	110	46.1	1.2	20	
Sulfate	200	1.0	200	5.52	99	90	110	204.2	0.2	20	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98052

Date: *07-Jul-14*

Run ID :Run Order: **FIA203-HE_140617A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.486	0.10	0.5		97	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.0851	0.10				0	0				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **FIA203-HE_140617A: 26** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**
Analysis Date: **06/17/14 11:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.451	0.10	0.5		90	90	110				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98064

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140617B: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **06/17/14 14:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	40.8	1.0	40		102	95	105				
Magnesium	42.1	1.0	40		105	95	105				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **06/17/14 14:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.6	1.0	25		99	95	105				
Magnesium	24.1	1.0	25		96	95	105				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **06/17/14 14:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	473	1.0	500		95	80	120				
Magnesium	533	1.0	500		107	80	120				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **06/17/14 14:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	454	1.0	500		91	80	120				
Magnesium	509	1.0	500		102	80	120				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 43** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **06/17/14 17:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.0	1.0	25		96	90	110				
Magnesium	23.4	1.0	25		94	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98064

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140617B: 43** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **06/17/14 17:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 55** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **06/17/14 17:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.1	1.0	25		97	90	110				
Magnesium	23.6	1.0	25		94	90	110				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 74** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **06/17/14 18:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	26.1	1.0	25		104	90	110				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Run ID :Run Order: **ICP2-HE_140617B: 86** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **06/17/14 19:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.5	1.0	25		98	90	110				
Magnesium	23.4	1.0	25		93	90	110				

Associated samples: **H14060255-001C, H14060255-002C, H14060255-003C, H14060255-004C, H14060255-005C, H14060255-006C, H14060255-007C, H14060255-008C, H14060255-009C, H14060255-010C, H14060255-011C, H14060255-012C, H14060255-013C, H14060255-014C, H14060255-015C, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98073

Date: *07-Jul-14*

Run ID :Run Order: **FIA202-HE_140618A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**
Analysis Date: **06/18/14 08:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.256	0.010	0.25		102	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E365.1**
Analysis Date: **06/18/14 08:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.00328	0.010				0	0				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 11** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**
Analysis Date: **06/18/14 08:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.255	0.010	0.25		102	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 12** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **06/18/14 08:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0972	0.010	0.1		97	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 30** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **06/18/14 08:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0977	0.010	0.1		98	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98073

Date: *07-Jul-14*

Run ID :Run Order: **FIA202-HE_140618A: 30** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**

Analysis Date: **06/18/14 08:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Run ID :Run Order: **FIA202-HE_140618A: 46** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**

Analysis Date: **06/18/14 09:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0984	0.010	0.1		98	90	110				

Associated samples: **H14060255-001D, H14060255-002D, H14060255-003D, H14060255-004D, H14060255-005D, H14060255-006D, H14060255-007D, H14060255-008D, H14060255-009D, H14060255-010D, H14060255-011D, H14060255-012D, H14060255-013D, H14060255-014D, H14060255-015D, H14060255-016D, H14060255-017D, H14060255-018D, H14060255-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98094

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140618A: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **06/18/14 12:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	39.4	1.0	40		98	95	105				
Magnesium	39.8	1.0	40		100	95	105				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C**

Run ID :Run Order: **ICP2-HE_140618A: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **06/18/14 12:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.8	1.0	25		99	95	105				
Magnesium	24.2	1.0	25		97	95	105				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C**

Run ID :Run Order: **ICP2-HE_140618A: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **06/18/14 12:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	464	1.0	500		93	80	120				
Magnesium	499	1.0	500		100	80	120				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C**

Run ID :Run Order: **ICP2-HE_140618A: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **06/18/14 12:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	457	1.0	500		91	80	120				
Magnesium	499	1.0	500		100	80	120				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C**

Run ID :Run Order: **ICP2-HE_140618A: 19** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **06/18/14 13:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.7	1.0	25		95	90	110				
Magnesium	22.6	1.0	25		91	90	110				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98094

Date: *07-Jul-14*

Run ID :Run Order: **ICP2-HE_140618A: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **06/18/14 13:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.8	1.0	25		95	90	110				
Magnesium	23.1	1.0	25		92	90	110				

Associated samples: **H14060255-014C, H14060255-015C, H14060255-016C, H14060255-017C, H14060255-018C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98112

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **06/18/14 11:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0596	0.0050	0.06		99	90	110				
Cadmium	0.0314	0.0010	0.03		105	90	110				
Copper	0.0610	0.010	0.06		102	90	110				
Lead	0.0591	0.010	0.06		98	90	110				
Zinc	0.0624	0.010	0.06		104	90	110				

Associated samples: **H14060255-001B, H14060255-001C, H14060255-002B, H14060255-002C, H14060255-003B, H14060255-003C, H14060255-004B, H14060255-004C, H14060255-005B, H14060255-005C, H14060255-006B, H14060255-006C, H14060255-007B, H14060255-007C, H14060255-008B, H14060255-008C, H14060255-009B, H14060255-009C, H14060255-010B, H14060255-010C, H14060255-011B, H14060255-011C, H14060255-012B, H14060255-012C, H14060255-013B, H14060255-013C, H14060255-014B, H14060255-014C, H14060255-015B, H14060255-015C, H14060255-016B, H14060255-016C, H14060255-017B, H14060255-017C, H14060255-018B, H14060255-018C, H14060255-019B, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **06/18/14 11:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000202	0.0050									
Cadmium	0.000341	0.0010									
Copper	0.000390	0.010									
Lead	0.000264	0.010									
Zinc	0.00170	0.010									

Associated samples: **H14060255-001B, H14060255-001C, H14060255-002B, H14060255-002C, H14060255-003B, H14060255-003C, H14060255-004B, H14060255-004C, H14060255-005B, H14060255-005C, H14060255-006B, H14060255-006C, H14060255-007B, H14060255-007C, H14060255-008B, H14060255-008C, H14060255-009B, H14060255-009C, H14060255-010B, H14060255-010C, H14060255-011B, H14060255-011C, H14060255-012B, H14060255-012C, H14060255-013B, H14060255-013C, H14060255-014B, H14060255-014C, H14060255-015B, H14060255-015C, H14060255-016B, H14060255-016C, H14060255-017B, H14060255-017C, H14060255-018B, H14060255-018C, H14060255-019B, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/18/14 11:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0109	0.0050	0.01		109	70	130				
Cadmium	0.00941	0.0010	0.01		94	70	130				
Copper	0.0207	0.010	0.02		104	70	130				
Lead	0.000351	0.010				0	0				
Zinc	0.0116	0.010	0.01		116	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98112

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/18/14 11:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001B, H14060255-001C, H14060255-002B, H14060255-002C, H14060255-003B, H14060255-003C, H14060255-004B, H14060255-004C, H14060255-005B, H14060255-005C, H14060255-006B, H14060255-006C, H14060255-007B, H14060255-007C, H14060255-008B, H14060255-008C, H14060255-009B, H14060255-009C, H14060255-010B, H14060255-010C, H14060255-011B, H14060255-011C, H14060255-012B, H14060255-012C, H14060255-013B, H14060255-013C, H14060255-014B, H14060255-014C, H14060255-015B, H14060255-015C, H14060255-016B, H14060255-016C, H14060255-017B, H14060255-017C, H14060255-018B, H14060255-018C, H14060255-019B, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 17** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**

Analysis Date: **06/18/14 12:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									
Copper	3E-05	3E-05									
Lead	ND	8E-06									
Zinc	ND	0.0003									

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Run ID :Run Order: **ICPMS204-B_140619A: 18** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**

Analysis Date: **06/18/14 12:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0512	0.0050	0.05		102	85	115				
Cadmium	0.0522	0.0010	0.05		104	85	115				
Copper	0.0536	0.010	0.05	0.000031	107	85	115				
Lead	0.0508	0.010	0.05		101	85	115				
Zinc	0.0553	0.010	0.05		111	85	115				

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Run ID :Run Order: **ICPMS204-B_140619A: 35** SampType: **Sample Matrix Spike** Lab ID: **H14060255-001BMS** Method: **E200.8**

Analysis Date: **06/18/14 13:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0573	0.0010	0.05	0.005029	105	70	130				
Cadmium	0.0524	0.0010	0.05	0.0000222	105	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98112

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 35** SampType: **Sample Matrix Spike** Lab ID: **H14060255-001BMS** Method: **E200.8**

Analysis Date: **06/18/14 13:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.0570	0.0050	0.05	0.003946	106	70	130				
Lead	0.0508	0.0010	0.05	0.0000816	101	70	130				
Zinc	0.0616	0.010	0.05	0.008144	107	70	130				

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Run ID :Run Order: **ICPMS204-B_140619A: 36** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-001BMSD** Method: **E200.8**

Analysis Date: **06/18/14 14:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0580	0.0010	0.05	0.005029	106	70	130	0.05733	1.2	20	
Cadmium	0.0511	0.0010	0.05	0.0000222	102	70	130	0.05239	2.6	20	
Copper	0.0575	0.0050	0.05	0.003946	107	70	130	0.05704	0.8	20	
Lead	0.0497	0.0010	0.05	0.0000816	99	70	130	0.05078	2.2	20	
Zinc	0.0627	0.010	0.05	0.008144	109	70	130	0.06155	1.8	20	

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Run ID :Run Order: **ICPMS204-B_140619A: 66** SampType: **Sample Matrix Spike** Lab ID: **H14060255-011BMS** Method: **E200.8**

Analysis Date: **06/18/14 16:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0721	0.0010	0.05	0.01981	105	70	130				
Cadmium	0.0517	0.0010	0.05	0.0000177	103	70	130				
Copper	0.0578	0.0050	0.05	0.00331	109	70	130				
Lead	0.0504	0.0010	0.05	0.0001577	101	70	130				
Zinc	0.0650	0.010	0.05	0.01008	110	70	130				

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98112

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 67** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060255-011BMSD** Method: **E200.8**

Analysis Date: **06/18/14 16:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0725	0.0010	0.05	0.01981	105	70	130	0.0721	0.5	20	
Cadmium	0.0517	0.0010	0.05	0.0000177	103	70	130	0.05168	0.1	20	
Copper	0.0579	0.0050	0.05	0.00331	109	70	130	0.05775	0.3	20	
Lead	0.0507	0.0010	0.05	0.0001577	101	70	130	0.05043	0.5	20	
Zinc	0.0639	0.010	0.05	0.01008	108	70	130	0.06495	1.7	20	

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Run ID :Run Order: **ICPMS204-B_140619A: 113** SampType: **Sample Matrix Spike** Lab ID: **H14060290-001BMS** Method: **E200.8**

Analysis Date: **06/18/14 20:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.259	0.0010	0.25	0.00711	101	70	130				
Cadmium	0.212	0.0010	0.25	0.000124	85	70	130				
Copper	0.248	0.0050	0.25	0.004126	98	70	130				
Lead	0.259	0.0010	0.25	0.00046	104	70	130				
Zinc	0.253	0.010	0.25	0.03235	88	70	130				

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Run ID :Run Order: **ICPMS204-B_140619A: 114** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060290-001BMSD** Method: **E200.8**

Analysis Date: **06/18/14 20:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.257	0.0010	0.25	0.00711	100	70	130	0.2592	0.8	20	
Cadmium	0.209	0.0010	0.25	0.000124	84	70	130	0.2124	1.6	20	
Copper	0.247	0.0050	0.25	0.004126	97	70	130	0.2479	0.3	20	
Lead	0.256	0.0010	0.25	0.00046	102	70	130	0.2594	1.5	20	
Zinc	0.257	0.010	0.25	0.03235	90	70	130	0.2529	1.6	20	

Associated samples: **H14060255-001B, H14060255-002B, H14060255-003B, H14060255-004B, H14060255-005B, H14060255-006B, H14060255-007B, H14060255-008B, H14060255-009B, H14060255-010B, H14060255-011B, H14060255-012B, H14060255-013B, H14060255-014B, H14060255-015B, H14060255-016B, H14060255-017B, H14060255-018B, H14060255-019B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98112

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 129** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **06/18/14 21:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0596	0.0050	0.06		99	90	110				
Cadmium	0.0315	0.0010	0.03		105	90	110				
Copper	0.0629	0.010	0.06		105	90	110				
Lead	0.0602	0.010	0.06		100	90	110				
Zinc	0.0624	0.010	0.06		104	90	110				

Associated samples: **H14060255-001B, H14060255-001C, H14060255-002B, H14060255-002C, H14060255-003B, H14060255-003C, H14060255-004B, H14060255-004C, H14060255-005B, H14060255-005C, H14060255-006B, H14060255-006C, H14060255-007B, H14060255-007C, H14060255-008B, H14060255-008C, H14060255-009B, H14060255-009C, H14060255-010B, H14060255-010C, H14060255-011B, H14060255-011C, H14060255-012B, H14060255-012C, H14060255-013B, H14060255-013C, H14060255-014B, H14060255-014C, H14060255-015B, H14060255-015C, H14060255-016B, H14060255-016C, H14060255-017B, H14060255-017C, H14060255-018B, H14060255-018C, H14060255-019B, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 130** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **06/18/14 21:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000160	0.0050									
Cadmium	0.000362	0.0010									
Copper	0.000358	0.010									
Lead	0.000256	0.010									
Zinc	0.00161	0.010									

Associated samples: **H14060255-001B, H14060255-001C, H14060255-002B, H14060255-002C, H14060255-003B, H14060255-003C, H14060255-004B, H14060255-004C, H14060255-005B, H14060255-005C, H14060255-006B, H14060255-006C, H14060255-007B, H14060255-007C, H14060255-008B, H14060255-008C, H14060255-009B, H14060255-009C, H14060255-010B, H14060255-010C, H14060255-011B, H14060255-011C, H14060255-012B, H14060255-012C, H14060255-013B, H14060255-013C, H14060255-014B, H14060255-014C, H14060255-015B, H14060255-015C, H14060255-016B, H14060255-016C, H14060255-017B, H14060255-017C, H14060255-018B, H14060255-018C, H14060255-019B, H14060255-019C**

Run ID :Run Order: **ICPMS204-B_140619A: 131** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/18/14 21:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0108	0.0050	0.01		108	70	130				
Cadmium	0.00941	0.0010	0.01		94	70	130				
Copper	0.0207	0.010	0.02		104	70	130				
Lead	0.000342	0.010				0	0				
Zinc	0.0118	0.010	0.01		118	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98112

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140619A: 131** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/18/14 21:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060255-001B, H14060255-001C, H14060255-002B, H14060255-002C, H14060255-003B, H14060255-003C, H14060255-004B, H14060255-004C, H14060255-005B, H14060255-005C, H14060255-006B, H14060255-006C, H14060255-007B, H14060255-007C, H14060255-008B, H14060255-008C, H14060255-009B, H14060255-009C, H14060255-010B, H14060255-010C, H14060255-011B, H14060255-011C, H14060255-012B, H14060255-012C, H14060255-013B, H14060255-013C, H14060255-014B, H14060255-014C, H14060255-015B, H14060255-015C, H14060255-016B, H14060255-016C, H14060255-017B, H14060255-017C, H14060255-018B, H14060255-018C, H14060255-019B, H14060255-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98319

Date: *07-Jul-14*

Run ID :Run Order: **PHSC_101-H_140626A: 131** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **06/26/14 17:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	1	0.9									

Associated samples: **H14060255-013A, H14060255-017A**

Run ID :Run Order: **PHSC_101-H_140626A: 133** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **06/26/14 17:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	590	4.0	600	1.35	98	90	110				

Associated samples: **H14060255-013A, H14060255-017A**

Run ID :Run Order: **PHSC_101-H_140626A: 136** SampType: **Sample Duplicate** Lab ID: **H14060255-013ADUP** Method: **A2320 B**
Analysis Date: **06/26/14 17:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	4.0						2.9		10	
Bicarbonate as HCO3	0.24	4.0						2.928		10	

Associated samples: **H14060255-013A, H14060255-017A**

Run ID :Run Order: **PHSC_101-H_140626A: 140** SampType: **Sample Matrix Spike** Lab ID: **H14060255-017AMS** Method: **A2320 B**
Analysis Date: **06/26/14 18:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	600	4.0	600		99	80	120				

Associated samples: **H14060255-013A, H14060255-017A**

Run ID :Run Order: **PHSC_101-H_140626A: 177** SampType: **Sample Duplicate** Lab ID: **H14060508-004ADUP** Method: **A2320 B**
Analysis Date: **06/26/14 20:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	170	4.0						166.9	1.4	10	
Bicarbonate as HCO3	210	4.0						203	1.4	10	

Associated samples: **H14060255-013A, H14060255-017A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98393

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140626A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **06/26/14 10:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0629	0.010	0.06		105	90	110				

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **06/26/14 10:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.00164	0.010									

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **06/26/14 10:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0122	0.010	0.01		123	70	130				

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 17** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**
Analysis Date: **06/26/14 10:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0003	0.0003									

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 18** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**
Analysis Date: **06/26/14 10:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0544	0.010	0.05	0.0003211	108	85	115				

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 37** SampType: **Sample Matrix Spike** Lab ID: **H14060420-011BMS** Method: **E200.8**
Analysis Date: **06/26/14 12:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0532	0.010	0.05	0.001647	103	70	130				

Associated samples: **H14060255-013B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98393

Date: *07-Jul-14*

Run ID :Run Order: **ICPMS204-B_140626A: 38** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060420-011BMSD** Method: **E200.8**
Analysis Date: **06/26/14 12:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0539	0.010	0.05	0.001647	105	70	130	0.05315	1.4	20	

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 53** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **06/26/14 13:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0620	0.010	0.06		103	90	110				

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 54** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **06/26/14 13:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.00163	0.010									

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 55** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **06/26/14 14:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0117	0.010	0.01		117	70	130				

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 63** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **06/27/14 03:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.00163	0.010									

Associated samples: **H14060255-013B**

Run ID :Run Order: **ICPMS204-B_140626A: 64** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **06/27/14 03:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0121	0.010	0.01		121	70	130				

Associated samples: **H14060255-013B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060255
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140613A

Date: *07-Jul-14*

Run ID :Run Order: **ACCU-124 (14410200)_140613A: 1** SampType: **Method Blank** Lab ID: **MB-1_140613A** Method: **A2540 D**
Analysis Date: **06/13/14 09:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140613A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-2_140613A** Method: **A2540 D**
Analysis Date: **06/13/14 09:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	91.0	10	100		91	80	120				

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140613A: 4** SampType: **Sample Duplicate** Lab ID: **H14060256-003A DUP** Method: **A2540 D**
Analysis Date: **06/13/14 09:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	106	10						111	4.6	5	

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Run ID :Run Order: **ACCU-124 (14410200)_140613A: 1** SampType: **Sample Duplicate** Lab ID: **H14060256-004A DUP** Method: **A2540 D**
Analysis Date: **06/13/14 09:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	16.0	10						17	6.1	5	R

Associated samples: **H14060255-001A, H14060255-002A, H14060255-003A, H14060255-004A, H14060255-005A, H14060255-006A, H14060255-007A, H14060255-008A, H14060255-009A, H14060255-010A, H14060255-011A, H14060255-012A, H14060255-013A, H14060255-014A, H14060255-015A, H14060255-016A, H14060255-017A, H14060255-018A, H14060255-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

July 04, 2014

Energy Laboratories, Inc.
ATTN: Jonathan Dee Hager
PO Box 5688
Helena MT 59604
jhager@energylab.com

RE: Project ENL-HL1201 Client Project: Silver Bow / Clark Fork

Dear Jonathan Dee Hager,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on June 13, 2014. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology. A Trip Blank was also received with the samples. It was logged-in and analyzed for methylmercury analysis along with the other samples.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data is reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12940

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCV	continuing calibration verification	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
ICV	initial calibration verification	**SCV**	secondary calibration verification
MDL	method detection limit	**SOP**	standard operating procedure
MRL	method reporting limit	**SRM**	standard reference material
IBL	instrument blank	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12940

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
H14060255-016F	1424050-01	Water	Sample	06/10/2014	06/13/2014
H14060255-017F	1424050-02	DIW	Field Blank	06/10/2014	06/13/2014
H14060255-018F	1424050-03	Water	Sample	06/10/2014	06/13/2014
H14060255-019F	1424050-04	Water	Sample	06/10/2014	06/13/2014
Trip Blank	1424050-05	DIW	Trip Blank	06/10/2014	06/13/2014

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	06/24/2014	06/25/2014	B141103	1400558

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12940

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
H14060255-016F										
1424050-01	MeHg	Water	T	0.323		0.020	0.050	ng/L	B141103	1400558
H14060255-017F										
1424050-02	MeHg	DIW	T	0.020	U	0.020	0.049	ng/L	B141103	1400558
H14060255-018F										
1424050-03	MeHg	Water	T	1.19		0.020	0.050	ng/L	B141103	1400558
H14060255-019F										
1424050-04	MeHg	Water	T	0.716		0.020	0.050	ng/L	B141103	1400558
Trip Blank										
1424050-05	MeHg	DIW	T	0.020	U	0.020	0.050	ng/L	B141103	1400558

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12940

Accuracy & Precision Summary

Batch: B141103
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B141103-BS1	**Laboratory Fortified Blank (1425037)**						
	MeHg		1.000	1.001	ng/L	100% 67-133	
B141103-BS2	**Laboratory Fortified Blank (1425037)**						
	MeHg		1.000	1.096	ng/L	110% 67-133	
B141103-MS1	**Matrix Spike (1424050-01)**						
	MeHg	0.323	1.500	2.119	ng/L	120% 65-135	
B141103-MSD1	**Matrix Spike Duplicate (1424050-01)**						
	MeHg	0.323	1.500	1.794	ng/L	98% 65-135	17% 35

Method Blanks & Reporting Limits

Batch: B141103
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B141103-BLK1	0.006	ng/L
B141103-BLK2	0.005	ng/L
B141103-BLK3	0.006	ng/L
B141103-BLK4	0.007	ng/L

Average: 0.006 **Standard Deviation:** 0.001 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.049

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12940

Sample Containers

Lab ID: 1424050-01 **Report Matrix:** Water **Collected:** 06/10/2014
Sample: H14060255-016F **Sample Type:** Sample **Received:** 06/13/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250 mL	13-0293	0.8% 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1424050-02 **Report Matrix:** DIW **Collected:** 06/10/2014
Sample: H14060255-017F **Sample Type:** Field Blank **Received:** 06/13/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250 mL	13-0293	0.8% 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1424050-03 **Report Matrix:** Water **Collected:** 06/10/2014
Sample: H14060255-018F **Sample Type:** Sample **Received:** 06/13/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250 mL	13-0293	0.8% 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1424050-04 **Report Matrix:** Water **Collected:** 06/10/2014
Sample: H14060255-019F **Sample Type:** Sample **Received:** 06/13/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250 mL	13-0293	0.8% 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1424050-05 **Report Matrix:** DIW **Collected:** 06/10/2014
Sample: Trip Blank **Sample Type:** Trip Blank **Received:** 06/13/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250 mL	14-0293	0.4% HCl (BRL)		<2	Cooler

Shipping Containers

Cooler

Received: June 13, 2014 9:15
Tracking No: 1Z37EW970153264256 via FedEx
Coolant Type: Ice
Temperature: 0.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

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Energy Laboratories Inc
3161 East Lyndale Avenue
Helena, MT 59601
(406) 442-0711

H14060255

CHAIN-OF-CUSTODY RECORD

Custody Seal: Y N
Intacted: Y N
Signature Match: Y N

Shipped By: _____
Receipt Temp: _____

Subcontractor:
Brooks Rand Labs
3958 6th Ave NW
Seattle, WA 98106
TEL: (206) 632-6206 FAX: (206) 632-6017
Acct #:

Subcontractor's Client:

Rush	Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests: SUB-BROOKSRAND
☐	H14060255-016F	Aqueous	06/10/14 12:00 P	1-CLIENT-SLD	1
☐	H14060255-017F	Aqueous	06/10/14 01:00 P	1-CLIENT-SLD	1
☐	H14060255-018F	Aqueous	06/10/14 01:30 P	1-CLIENT-SLD	1
☐	H14060255-019F	Aqueous	06/10/14 01:30 P	1-CLIENT-SLD	1

Earliest Due Date: 6/26/2014

Comments: PO# H12940

QC Level:
STD

		Date/Time			
Relinquished by:	[signature]	~~6/13~~	**Received by:**	[signature]	6/13/14 0915
Relinquished by:	[signature]	6/12/14 15:16	**Received by:**		

Workorder Receipt Checklist

MT DEQ-Federal Superfund

H14060255

Login completed by: Tracy L. Lorash

Date Received: 6/12/2014

Reviewed by: BL2000\sdull

Received by: TLL

Reviewed Date: 6/23/2014

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	°C See comments		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Per Erich, we are to analyze Tot Hg (ULL from TR metals) on samples CFR-84F, Field Blank #1, FC-CFR and FC-CFR Duplicate only.
Cooler 1 was received at 2.0°C, Cooler 2 at 3.0°C. Samples were received on wet ice. Tl 6/12/14

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MTDEQ (RESPEC)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): erich.weber@respec.com
bequinones@mt.gov
joe.naughton@respec.com
gary.ingman@respec.com
☐ No Hard Copy Email:

Contact Name: Ben Quinones
Phone/Fax: 406.841.5709
Erich Weber 506.1546
Cell: 439.0563

Sampler: (Please Print) J. Naughton, H. McAdams, E. Weber

Invoice Contact & Phone: Ben Quinones 406.841.5709

Purchase Order:

Quote/Bottle Order: H958/14758

Invoice Address (Required): MT DEQ, P.O. Box 200901, Helena, MT 59620-0901
☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

ANALYSIS REQUESTED

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: all dissolved samples were field filtered

Shipped by: Hand
Cooler ID(s): Y
Receipt Temp: See comments
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

LABORATORY USE ONLY: H14060255

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	TRAs, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^{2-}, Cl^-	Hardness (TR Ca + Mg)	DOC	SEE ATTACHED	
C2	1 CFR-116A	6-10-2014	0915	SW	X	X	X	X	X	X	X	X		
C2	2 CSC	6-10-2014	1030	SW										
C2	3 LBR-CFR-02	6-10-2014	1530	SW										
C2	4 CFR-42G	6-10-2014	1700	SW										
C2	5 CFR-27H	6-10-2014	1800	SW										
C1	6 CFR-11F	6-11-2014	0900	SW										
C1	7 CFR-07D	6-11-2014	1000	SW										
C1	8 CFR-03A	6-11-2014	1100	SW										
C1	9 WSC-SBC	6-11-2014	1130	SW										
C1	10 SS-25	6-11-2014	1300	SW										

C1 = 2.0
C2 = 3.0 } TB

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 6-12-2014 11:35 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Tracy Lerud Date/Time: 6/12/14 11:35 Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (RESPEC)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) See pg. 1

☐ No Hard Copy Email:

Invoice Contact & Phone: See page 1

Purchase Order:

Quote/Bottle Order: H958/ 147458

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
- ☐ DW
- ☐ POTW/WWTP
- ☐ State:
- ☐ Other:
- ☐ EDD/EDT (Electronic Data) Format:
- ☐ LEVEL IV
- ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: all dissolved samples were field filtered

Shipped by: Hand

Cooler ID(s): Y

Receipt Temp: See comments

On Ice: Y N

Custody Seal: On Bottle Y N; On Cooler Y N

Intact Y N

Signature Match Y N

LABORATORY USE ONLY H14060255

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TRAs, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk, SO_4^-, Cl^-	Hardness (TR Ca + Mg)	DOC	Tot Hg (wll from TR metals)	SEE ATTACHED	Standard Turnaround (TAT)	RUSH	Comments
C1	1 MWB-SBC	6-11-2014	1345	SW	X	X	X	X	X	X	X	X	X				
C1	2 SBC P2	6-11-2014	1430	SW													Cl = 2.0 } TB
C1	3 Field Blank #2	6-11-2014	15:00	SW													C2 = 3.0 } TB
C1	4 MCWC-MWB	6-11-2014	15:30	SW													
C1	5 MCWC-MWB Duplicate	6-11-2014	15:30	SW													
C2	6 CFR-84F	6-10-2014	12:00	SW													
C2	7 Field Blank #1	6-10-2014	13:00	SW													
C2	8 FC-CFR	6-10-2014	13:30	SW													
C2	9 FC-CFR Duplicate	6-10-2014	13:30	SW													
	10																

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 6-12-2014 11:35 Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Tracy Lenard Date/Time: 6/12/14 11:35 Signature: Tracy Lenard

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MTDEQ (RESPEC)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) See pg. 1

☐ No Hard Copy Email:

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order: H958/14758

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Me Hg (Contract lab)	SEE ATTACHED
1	CFR-84F	6-10-2014	1200	LW	X	
2	Field Blank #1	6-10-2014	1300	LW		
3	FC-CFR	6-10-2014	1330	LW		
4	FC-CFR Duplicate	6-10-2014	1330	LW		
5						
6						
7						
8						
9						
10						

C1 = 2.0 } TB
C2 = 3.0

LABORATORY USE ONLY

Shipped by: Hand
Cooler ID(s): Y
Receipt Temp: See comments
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

H14060255

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 6-12-2014 11:35 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Tracy Lerud Date/Time: 6/12/14 11:35 Signature: Tracy Lerud

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ANALYTICAL SUMMARY REPORT

July 23, 2014

MT DEQ-Federal Superfund
PO Box 200901
Helena, MT 59620-0901

Work Order: H14060541 Quote ID: H958 - CFR Monitoring-474374

Project Name: CFR OU Monitoring

Energy Laboratories Inc Helena MT received the following 19 samples for MT DEQ-Federal Superfund on 6/26/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H14060541-001	CFR-116A	06/24/14 9:00	06/26/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14060541-002	CSC	06/24/14 10:30	06/26/14	Aqueous	Same As Above
H14060541-003	LBR-CFR-02	06/24/14 15:30	06/26/14	Aqueous	Same As Above
H14060541-004	CFR-42G	06/24/14 17:00	06/26/14	Aqueous	Same As Above
H14060541-005	CFR-27H	06/24/14 18:00	06/26/14	Aqueous	Same As Above
H14060541-006	CFR-11F	06/25/14 9:00	06/26/14	Aqueous	Same As Above
H14060541-007	CFR-07D	06/25/14 10:00	06/26/14	Aqueous	Same As Above
H14060541-008	CFR-03A	06/25/14 11:00	06/26/14	Aqueous	Same As Above
H14060541-009	WSC-SBC	06/25/14 12:00	06/26/14	Aqueous	Same As Above
H14060541-010	SS-25	06/25/14 12:45	06/26/14	Aqueous	Same As Above
H14060541-011	MWB-SBC	06/25/14 13:30	06/26/14	Aqueous	Same As Above
H14060541-012	SBC P2	06/25/14 14:00	06/26/14	Aqueous	Same As Above
H14060541-013	Field Blank #2	06/25/14 15:00	06/26/14	Aqueous	Same As Above
H14060541-014	MCWC-MWB	06/25/14 15:30	06/26/14	Aqueous	Same As Above
H14060541-015	MCWC-MWB Duplicate	06/25/14 15:30	06/26/14	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

H14060541-016	CFR-84F	06/24/14 11:45	06/26/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Mercury, Total Recoverable Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Mercury by CVAA Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended Subcontracted, Analytics
H14060541-017	Field Blank #1	06/24/14 13:15	06/26/14	Aqueous	Same As Above
H14060541-018	FC-CFR	06/24/14 13:45	06/26/14	Aqueous	Same As Above
H14060541-019	FC-CFR Duplicate	06/24/14 13:45	06/26/14	Aqueous	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: MT DEQ-Federal Superfund
Project: CFR OU Monitoring
Work Order: H14060541

Report Date: 07/23/14

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Samples for Methyl Mercury were submitted to BrooksRand Labs. Attached is the report. Wj 7/23/14

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14060541-001
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 09:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	12	mg/L		2		A2540 D	06/27/14 11:24 / blm		-124 (14410200)_140627A	5	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	89	mg/L		4		A2320 B	06/27/14 18:13 / SR		PHSC_101-H_140627A	250	R98374
Bicarbonate as HCO3	110	mg/L		4		A2320 B	06/27/14 18:13 / SR		PHSC_101-H_140627A	250	R98374
Chloride	2	mg/L		1		E300.0	06/27/14 19:26 / SR		IC102-H_140627A	57	R98436
Sulfate	19	mg/L		1		E300.0	06/27/14 19:26 / SR		IC102-H_140627A	57	R98436
Hardness as CaCO3	87	mg/L		1		A2340 B	07/02/14 08:57 / sld		WATERCALC_140702A	1	R98494
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.5	mg/L		0.5		A5310 C	06/27/14 19:20 / eli-c		SUB-C188057	16	C_41808
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:22 / cm		FIA203-HE_140707B	19	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 15:57 / cm		FIA203-HE_140630A	62	R98451
Nitrogen, Total	0.08	mg/L		0.05		A4500 N-C	07/02/14 08:48 / cm	07/01/14 12:12	FIA203-HE_140702A	16	25174
Phosphorus, Total as P	0.026	mg/L		0.005		E365.1	06/30/14 14:46 / cm	06/30/14 13:53	FIA202-HE_140630B	27	25153
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	07/01/14 00:36 / dck		ICPMS204-B_140630A	181	R98479
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 00:36 / dck		ICPMS204-B_140630A	181	R98479
Copper	0.005	mg/L		0.001		E200.8	07/01/14 00:36 / dck		ICPMS204-B_140630A	181	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 00:36 / dck		ICPMS204-B_140630A	181	R98479
Zinc	0.011	mg/L		0.008		E200.8	07/01/14 00:36 / dck		ICPMS204-B_140630A	181	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.007	mg/L		0.001		E200.8	07/01/14 01:02 / dck	06/27/14 09:25	ICPMS204-B_140630A	187	25106
Cadmium	0.00006	mg/L	D	0.00004		E200.8	07/01/14 01:02 / dck	06/27/14 09:25	ICPMS204-B_140630A	187	25106
Calcium	25	mg/L		1		E200.7	06/30/14 23:18 / sld	06/27/14 09:25	ICP2-HE_140630B	192	25106
Copper	0.012	mg/L		0.001		E200.8	07/01/14 01:02 / dck	06/27/14 09:25	ICPMS204-B_140630A	187	25106
Lead	0.0016	mg/L		0.0003		E200.8	07/01/14 01:02 / dck	06/27/14 09:25	ICPMS204-B_140630A	187	25106

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14060541-001
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 09:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	6	mg/L		1		E200.7	06/30/14 23:18 / sld	06/27/14 09:25	ICP2-HE_140630B	192	25106
Zinc	0.016	mg/L		0.008		E200.8	07/01/14 01:02 / dck	06/27/14 09:25	ICPMS204-B_140630A	187	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CSC
Lab ID: H14060541-002
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 10:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		2		A2540 D	06/27/14 11:25 / blm		-124 (14410200)_140627A	6	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	06/27/14 18:19 / SR		PHSC_101-H_140627A	252	R98374
Bicarbonate as HCO3	160	mg/L		4		A2320 B	06/27/14 18:19 / SR		PHSC_101-H_140627A	252	R98374
Chloride	3	mg/L		1		E300.0	06/27/14 20:00 / SR		IC102-H_140627A	60	R98436
Sulfate	28	mg/L		1		E300.0	06/27/14 20:00 / SR		IC102-H_140627A	60	R98436
Hardness as CaCO3	143	mg/L		1		A2340 B	06/30/14 23:33 / abb		CALC_140701A	311	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.1	mg/L		0.5		A5310 C	06/27/14 19:30 / eli-c		SUB-C188057	17	C_41808
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:23 / cm		FIA203-HE_140707B	20	R98605
Nitrogen, Nitrate+Nitrite as N	0.22	mg/L		0.05		E353.2	06/30/14 15:59 / cm		FIA203-HE_140630A	63	R98451
Nitrogen, Total	0.27	mg/L		0.05		A4500 N-C	07/02/14 08:49 / cm	07/01/14 12:12	FIA203-HE_140702A	17	25174
Phosphorus, Total as P	0.010	mg/L		0.005		E365.1	06/30/14 14:49 / cm	06/30/14 13:53	FIA202-HE_140630B	30	25153
METALS, DISSOLVED											
Arsenic	0.002	mg/L		0.001		E200.8	07/01/14 01:24 / dck		ICPMS204-B_140630A	192	R98479
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 01:24 / dck		ICPMS204-B_140630A	192	R98479
Copper	ND	mg/L		0.001		E200.8	07/01/14 01:24 / dck		ICPMS204-B_140630A	192	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 01:24 / dck		ICPMS204-B_140630A	192	R98479
Zinc	0.018	mg/L		0.008		E200.8	07/01/14 01:24 / dck		ICPMS204-B_140630A	192	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.002	mg/L		0.001		E200.8	07/01/14 01:28 / dck	06/27/14 09:25	ICPMS204-B_140630A	193	25106
Cadmium	0.00003	mg/L		0.00003		E200.8	07/01/14 23:33 / dck	06/27/14 09:25	ICPMS204-B_140701B	114	25106
Calcium	42	mg/L		1		E200.7	06/30/14 23:33 / sld	06/27/14 09:25	ICP2-HE_140630B	196	25106
Copper	0.003	mg/L		0.001		E200.8	07/01/14 01:28 / dck	06/27/14 09:25	ICPMS204-B_140630A	193	25106
Lead	ND	mg/L		0.0003		E200.8	07/01/14 01:28 / dck	06/27/14 09:25	ICPMS204-B_140630A	193	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CSC
Lab ID: H14060541-002
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 10:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	06/30/14 23:33 / sld	06/27/14 09:25	ICP2-HE_140630B	196	25106
Zinc	0.011	mg/L		0.008		E200.8	07/01/14 01:28 / dck	06/27/14 09:25	ICPMS204-B_140630A	193	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14060541-003
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 15:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	4	mg/L		2		A2540 D	06/27/14 11:25 / blm		-124 (14410200)_140627A	7	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	06/27/14 18:26 / SR		PHSC_101-H_140627A	254	R98374
Bicarbonate as HCO3	130	mg/L		4		A2320 B	06/27/14 18:26 / SR		PHSC_101-H_140627A	254	R98374
Chloride	2	mg/L		1		E300.0	06/27/14 20:33 / SR		IC102-H_140627A	63	R98436
Sulfate	8	mg/L		1		E300.0	06/27/14 20:33 / SR		IC102-H_140627A	63	R98436
Hardness as CaCO3	104	mg/L		1		A2340 B	06/30/14 23:37 / abb		CALC_140701A	322	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.4	mg/L		0.5		A5310 C	06/27/14 19:40 / eli-c		SUB-C188057	18	C_41808
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:24 / cm		FIA203-HE_140707B	21	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:00 / cm		FIA203-HE_140630A	64	R98451
Nitrogen, Total	0.19	mg/L		0.05		A4500 N-C	07/02/14 08:50 / cm	07/01/14 12:12	FIA203-HE_140702A	18	25174
Phosphorus, Total as P	0.028	mg/L		0.005		E365.1	06/30/14 14:50 / cm	06/30/14 13:53	FIA202-HE_140630B	31	25153
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	07/01/14 01:32 / dck		ICPMS204-B_140630A	194	R98479
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 01:32 / dck		ICPMS204-B_140630A	194	R98479
Copper	0.001	mg/L		0.001		E200.8	07/01/14 01:32 / dck		ICPMS204-B_140630A	194	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 01:32 / dck		ICPMS204-B_140630A	194	R98479
Zinc	ND	mg/L		0.008		E200.8	07/01/14 01:32 / dck		ICPMS204-B_140630A	194	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.006	mg/L		0.001		E200.8	07/01/14 23:38 / dck	06/27/14 09:25	ICPMS204-B_140701B	115	25106
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 23:38 / dck	06/27/14 09:25	ICPMS204-B_140701B	115	25106
Calcium	31	mg/L		1		E200.7	06/30/14 23:37 / sld	06/27/14 09:25	ICP2-HE_140630B	197	25106
Copper	0.001	mg/L		0.001		E200.8	07/01/14 01:59 / dck	06/27/14 09:25	ICPMS204-B_140630A	200	25106
Lead	0.0003	mg/L		0.0003		E200.8	07/01/14 01:59 / dck	06/27/14 09:25	ICPMS204-B_140630A	200	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14060541-003
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 15:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	06/30/14 23:37 / sld	06/27/14 09:25	ICP2-HE_140630B	197	25106
Zinc	ND	mg/L		0.008		E200.8	07/01/14 01:59 / dck	06/27/14 09:25	ICPMS204-B_140630A	200	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-42G
Lab ID: H14060541-004
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 17:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	23	mg/L		2		A2540 D	06/27/14 11:26 / blm		-124 (14410200)_140627A	8	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	06/27/14 18:31 / SR		PHSC_101-H_140627A	256	R98374
Bicarbonate as HCO3	140	mg/L		4		A2320 B	06/27/14 18:31 / SR		PHSC_101-H_140627A	256	R98374
Chloride	4	mg/L		1		E300.0	06/27/14 20:44 / SR		IC102-H_140627A	64	R98436
Sulfate	37	mg/L		1		E300.0	06/27/14 20:44 / SR		IC102-H_140627A	64	R98436
Hardness as CaCO3	132	mg/L		1		A2340 B	06/30/14 23:41 / abb		CALC_140701A	333	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.5	mg/L		0.5		A5310 C	06/30/14 20:01 / eli-c		SUB-C188112	16	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:26 / cm		FIA203-HE_140707B	22	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:01 / cm		FIA203-HE_140630A	65	R98451
Nitrogen, Total	0.22	mg/L		0.05		A4500 N-C	07/02/14 08:52 / cm	07/01/14 12:12	FIA203-HE_140702A	19	25174
Phosphorus, Total as P	0.046	mg/L		0.005		E365.1	06/30/14 14:51 / cm	06/30/14 13:53	FIA202-HE_140630B	32	25153
METALS, DISSOLVED											
Arsenic	0.017	mg/L		0.001		E200.8	07/01/14 23:42 / dck		ICPMS204-B_140701B	116	R98549
Cadmium	0.00015	mg/L		0.00003		E200.8	07/01/14 02:03 / dck		ICPMS204-B_140630A	201	R98479
Copper	0.014	mg/L		0.001		E200.8	07/01/14 02:03 / dck		ICPMS204-B_140630A	201	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 02:03 / dck		ICPMS204-B_140630A	201	R98479
Zinc	0.013	mg/L		0.008		E200.8	07/01/14 02:03 / dck		ICPMS204-B_140630A	201	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	07/01/14 23:47 / dck	06/27/14 09:25	ICPMS204-B_140701B	117	25106
Cadmium	0.00020	mg/L		0.00003		E200.8	07/01/14 02:08 / dck	06/27/14 09:25	ICPMS204-B_140630A	202	25106
Calcium	38	mg/L		1		E200.7	06/30/14 23:41 / sld	06/27/14 09:25	ICP2-HE_140630B	198	25106
Copper	0.051	mg/L		0.001		E200.8	07/01/14 02:08 / dck	06/27/14 09:25	ICPMS204-B_140630A	202	25106
Lead	0.0054	mg/L		0.0003		E200.8	07/01/14 02:08 / dck	06/27/14 09:25	ICPMS204-B_140630A	202	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-42G
Lab ID: H14060541-004
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 17:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	06/30/14 23:41 / sld	06/27/14 09:25	ICP2-HE_140630B	198	25106
Zinc	0.039	mg/L		0.008		E200.8	07/01/14 02:08 / dck	06/27/14 09:25	ICPMS204-B_140630A	202	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14060541-005
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 18:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	20	mg/L		2		A2540 D	06/27/14 11:26 / blm		-124 (14410200)_140627A	9	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	88	mg/L		4		A2320 B	06/27/14 18:37 / SR		PHSC_101-H_140627A	258	R98374
Bicarbonate as HCO3	110	mg/L		4		A2320 B	06/27/14 18:37 / SR		PHSC_101-H_140627A	258	R98374
Chloride	3	mg/L		1		E300.0	06/27/14 20:55 / SR		IC102-H_140627A	65	R98436
Sulfate	35	mg/L		1		E300.0	06/27/14 20:55 / SR		IC102-H_140627A	65	R98436
Hardness as CaCO3	113	mg/L		1		A2340 B	06/30/14 23:45 / abb		CALC_140701A	344	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.5		A5310 C	06/30/14 20:50 / eli-c		SUB-C188112	19	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:27 / cm		FIA203-HE_140707B	23	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:02 / cm		FIA203-HE_140630A	66	R98451
Nitrogen, Total	0.30	mg/L		0.05		A4500 N-C	07/02/14 08:53 / cm	07/01/14 12:12	FIA203-HE_140702A	20	25174
Phosphorus, Total as P	0.031	mg/L		0.005		E365.1	06/30/14 14:52 / cm	06/30/14 13:53	FIA202-HE_140630B	33	25153
METALS, DISSOLVED											
Arsenic	0.016	mg/L		0.001		E200.8	07/01/14 23:51 / dck		ICPMS204-B_140701B	118	R98549
Cadmium	0.00004	mg/L		0.00003		E200.8	07/01/14 23:51 / dck		ICPMS204-B_140701B	118	R98549
Copper	0.012	mg/L		0.001		E200.8	07/01/14 02:12 / dck		ICPMS204-B_140630A	203	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 02:12 / dck		ICPMS204-B_140630A	203	R98479
Zinc	ND	mg/L		0.008		E200.8	07/01/14 02:12 / dck		ICPMS204-B_140630A	203	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	07/01/14 23:56 / dck	06/27/14 09:25	ICPMS204-B_140701B	119	25106
Cadmium	0.00019	mg/L		0.00003		E200.8	07/01/14 02:17 / dck	06/27/14 09:25	ICPMS204-B_140630A	204	25106
Calcium	34	mg/L		1		E200.7	06/30/14 23:45 / sld	06/27/14 09:25	ICP2-HE_140630B	199	25106
Copper	0.048	mg/L		0.001		E200.8	07/01/14 02:17 / dck	06/27/14 09:25	ICPMS204-B_140630A	204	25106
Lead	0.0046	mg/L		0.0003		E200.8	07/01/14 02:17 / dck	06/27/14 09:25	ICPMS204-B_140630A	204	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14060541-005
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 18:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	06/30/14 23:45 / sld	06/27/14 09:25	ICP2-HE_140630B	199	25106
Zinc	0.035	mg/L		0.008		E200.8	07/01/14 02:17 / dck	06/27/14 09:25	ICPMS204-B_140630A	204	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14060541-006
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 09:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	11	mg/L		2		A2540 D	06/27/14 11:26 / blm		I24 (14410200)_140627A	10	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	88	mg/L		4		A2320 B	06/27/14 19:07 / SR		PHSC_101-H_140627A	265	R98374
Bicarbonate as HCO3	110	mg/L		4		A2320 B	06/27/14 19:07 / SR		PHSC_101-H_140627A	265	R98374
Chloride	4	mg/L		1		E300.0	06/27/14 21:06 / SR		IC102-H_140627A	66	R98436
Sulfate	43	mg/L		1		E300.0	06/27/14 21:06 / SR		IC102-H_140627A	66	R98436
Hardness as CaCO3	122	mg/L		1		A2340 B	06/30/14 23:49 / abb		CALC_140701A	355	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.0	mg/L		0.5		A5310 C	06/30/14 21:05 / eli-c		SUB-C188112	20	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:33 / cm		FIA203-HE_140707B	28	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:03 / cm		FIA203-HE_140630A	67	R98451
Nitrogen, Total	0.19	mg/L		0.05		A4500 N-C	07/02/14 08:54 / cm	07/01/14 12:12	FIA203-HE_140702A	21	25174
Phosphorus, Total as P	0.025	mg/L		0.005		E365.1	06/30/14 14:53 / cm	06/30/14 13:53	FIA202-HE_140630B	34	25153
METALS, DISSOLVED											
Arsenic	0.018	mg/L		0.001		E200.8	07/02/14 00:00 / dck		ICPMS204-B_140701B	120	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/02/14 00:00 / dck		ICPMS204-B_140701B	120	R98549
Copper	0.007	mg/L		0.001		E200.8	07/01/14 02:21 / dck		ICPMS204-B_140630A	205	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 02:21 / dck		ICPMS204-B_140630A	205	R98479
Zinc	0.012	mg/L		0.008		E200.8	07/01/14 02:21 / dck		ICPMS204-B_140630A	205	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	07/02/14 00:04 / dck	06/27/14 09:25	ICPMS204-B_140701B	121	25106
Cadmium	0.00012	mg/L		0.00003		E200.8	07/01/14 02:26 / dck	06/27/14 09:25	ICPMS204-B_140630A	206	25106
Calcium	36	mg/L		1		E200.7	06/30/14 23:49 / sld	06/27/14 09:25	ICP2-HE_140630B	200	25106
Copper	0.026	mg/L		0.001		E200.8	07/01/14 02:26 / dck	06/27/14 09:25	ICPMS204-B_140630A	206	25106
Lead	0.0027	mg/L		0.0003		E200.8	07/01/14 02:26 / dck	06/27/14 09:25	ICPMS204-B_140630A	206	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14060541-006
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 09:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	06/30/14 23:49 / sld	06/27/14 09:25	ICP2-HE_140630B	200	25106
Zinc	0.020	mg/L		0.008		E200.8	07/01/14 02:26 / dck	06/27/14 09:25	ICPMS204-B_140630A	206	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14060541-007
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 10:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	12	mg/L		2		A2540 D	06/27/14 11:27 / blm		I24 (14410200)_140627A	11	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	83	mg/L		4		A2320 B	06/27/14 19:18 / SR		PHSC_101-H_140627A	269	R98374
Bicarbonate as HCO3	100	mg/L		4		A2320 B	06/27/14 19:18 / SR		PHSC_101-H_140627A	269	R98374
Chloride	3	mg/L		1		E300.0	06/27/14 21:17 / SR		IC102-H_140627A	67	R98436
Sulfate	40	mg/L		1		E300.0	06/27/14 21:17 / SR		IC102-H_140627A	67	R98436
Hardness as CaCO3	113	mg/L		1		A2340 B	07/01/14 00:00 / abb		CALC_140701A	366	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.9	mg/L		0.5		A5310 C	06/30/14 21:20 / eli-c		SUB-C188112	21	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:36 / cm		FIA203-HE_140707B	31	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:04 / cm		FIA203-HE_140630A	68	R98451
Nitrogen, Total	0.15	mg/L		0.05		A4500 N-C	07/02/14 08:55 / cm	07/01/14 12:12	FIA203-HE_140702A	22	25174
Phosphorus, Total as P	0.027	mg/L		0.005		E365.1	06/30/14 14:54 / cm	06/30/14 13:53	FIA202-HE_140630B	35	25153
METALS, DISSOLVED											
Arsenic	0.017	mg/L		0.001		E200.8	07/02/14 00:09 / dck		ICPMS204-B_140701B	122	R98549
Cadmium	0.00003	mg/L		0.00003		E200.8	07/02/14 00:09 / dck		ICPMS204-B_140701B	122	R98549
Copper	0.007	mg/L		0.001		E200.8	07/01/14 02:30 / dck		ICPMS204-B_140630A	207	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 02:30 / dck		ICPMS204-B_140630A	207	R98479
Zinc	0.017	mg/L		0.008		E200.8	07/01/14 02:30 / dck		ICPMS204-B_140630A	207	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	07/02/14 00:13 / dck	06/27/14 09:25	ICPMS204-B_140701B	123	25106
Cadmium	0.00012	mg/L		0.00003		E200.8	07/01/14 02:35 / dck	06/27/14 09:25	ICPMS204-B_140630A	208	25106
Calcium	33	mg/L		1		E200.7	07/01/14 00:00 / sld	06/27/14 09:25	ICP2-HE_140630B	203	25106
Copper	0.027	mg/L		0.001		E200.8	07/01/14 02:35 / dck	06/27/14 09:25	ICPMS204-B_140630A	208	25106
Lead	0.0027	mg/L		0.0003		E200.8	07/01/14 02:35 / dck	06/27/14 09:25	ICPMS204-B_140630A	208	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14060541-007
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 10:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	07/01/14 00:00 / sld	06/27/14 09:25	ICP2-HE_140630B	203	25106
Zinc	0.027	mg/L		0.008		E200.8	07/01/14 02:35 / dck	06/27/14 09:25	ICPMS204-B_140630A	208	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14060541-008
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 11:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	10	mg/L		2		A2540 D	06/27/14 11:27 / blm		I24 (14410200)_140627A	12	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	76	mg/L		4		A2320 B	06/27/14 19:39 / SR		PHSC_101-H_140627A	272	R98374
Bicarbonate as HCO3	92	mg/L		4		A2320 B	06/27/14 19:39 / SR		PHSC_101-H_140627A	272	R98374
Chloride	3	mg/L		1		E300.0	06/27/14 21:28 / SR		IC102-H_140627A	68	R98436
Sulfate	36	mg/L		1		E300.0	06/27/14 21:28 / SR		IC102-H_140627A	68	R98436
Hardness as CaCO3	99	mg/L		1		A2340 B	07/01/14 00:04 / abb		CALC_140701A	377	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.5		A5310 C	06/30/14 21:35 / eli-c		SUB-C188112	22	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:38 / cm		FIA203-HE_140707B	32	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:08 / cm		FIA203-HE_140630A	71	R98451
Nitrogen, Total	0.15	mg/L		0.05		A4500 N-C	07/02/14 08:56 / cm	07/01/14 12:12	FIA203-HE_140702A	23	25174
Phosphorus, Total as P	0.027	mg/L		0.005		E365.1	06/30/14 14:55 / cm	06/30/14 13:53	FIA202-HE_140630B	36	25153
METALS, DISSOLVED											
Arsenic	0.018	mg/L		0.001		E200.8	07/02/14 00:31 / dck		ICPMS204-B_140701B	127	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 02:39 / dck		ICPMS204-B_140630A	209	R98479
Copper	0.005	mg/L		0.001		E200.8	07/01/14 02:39 / dck		ICPMS204-B_140630A	209	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 02:39 / dck		ICPMS204-B_140630A	209	R98479
Zinc	ND	mg/L		0.008		E200.8	07/01/14 02:39 / dck		ICPMS204-B_140630A	209	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	07/02/14 00:49 / dck	06/27/14 09:25	ICPMS204-B_140701B	131	25106
Cadmium	0.00008	mg/L	D	0.00004		E200.8	07/02/14 00:49 / dck	06/27/14 09:25	ICPMS204-B_140701B	131	25106
Calcium	29	mg/L		1		E200.7	07/01/14 00:04 / sld	06/27/14 09:25	ICP2-HE_140630B	204	25106
Copper	0.016	mg/L		0.001		E200.8	07/01/14 02:57 / dck	06/27/14 09:25	ICPMS204-B_140630A	213	25106
Lead	0.0018	mg/L		0.0003		E200.8	07/01/14 02:57 / dck	06/27/14 09:25	ICPMS204-B_140630A	213	25106

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14060541-008
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 11:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	6	mg/L		1		E200.7	07/01/14 00:04 / sld	06/27/14 09:25	ICP2-HE_140630B	204	25106
Zinc	0.013	mg/L		0.008		E200.8	07/01/14 02:57 / dck	06/27/14 09:25	ICPMS204-B_140630A	213	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14060541-009
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 12:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	11	mg/L		2		A2540 D	06/27/14 11:28 / blm		I24 (14410200)_140627A	13	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	70	mg/L		4		A2320 B	06/27/14 19:45 / SR		PHSC_101-H_140627A	274	R98374
Bicarbonate as HCO3	85	mg/L		4		A2320 B	06/27/14 19:45 / SR		PHSC_101-H_140627A	274	R98374
Chloride	ND	mg/L		1		E300.0	06/27/14 21:40 / SR		IC102-H_140627A	69	R98436
Sulfate	13	mg/L		1		E300.0	06/27/14 21:40 / SR		IC102-H_140627A	69	R98436
Hardness as CaCO3	75	mg/L		1		A2340 B	07/01/14 00:07 / abb		CALC_140701A	388	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.1	mg/L		0.5		A5310 C	06/30/14 21:51 / eli-c		SUB-C188112	23	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:39 / cm		FIA203-HE_140707B	33	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:12 / cm		FIA203-HE_140630A	74	R98451
Nitrogen, Total	0.05	mg/L		0.05		A4500 N-C	07/02/14 08:57 / cm	07/01/14 12:12	FIA203-HE_140702A	24	25174
Phosphorus, Total as P	0.009	mg/L		0.005		E365.1	06/30/14 14:56 / cm	06/30/14 13:53	FIA202-HE_140630B	37	25153
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	07/02/14 00:54 / dck		ICPMS204-B_140701B	132	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 03:01 / dck		ICPMS204-B_140630A	214	R98479
Copper	0.004	mg/L		0.001		E200.8	07/01/14 03:01 / dck		ICPMS204-B_140630A	214	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 03:01 / dck		ICPMS204-B_140630A	214	R98479
Zinc	ND	mg/L		0.008		E200.8	07/02/14 00:54 / dck		ICPMS204-B_140701B	132	R98549
METALS, TOTAL RECOVERABLE											
Arsenic	0.007	mg/L		0.001		E200.8	07/02/14 00:58 / dck	06/27/14 09:25	ICPMS204-B_140701B	133	25106
Cadmium	0.00010	mg/L		0.00003		E200.8	07/01/14 03:06 / dck	06/27/14 09:25	ICPMS204-B_140630A	215	25106
Calcium	24	mg/L		1		E200.7	07/01/14 00:07 / sld	06/27/14 09:25	ICP2-HE_140630B	205	25106
Copper	0.017	mg/L		0.001		E200.8	07/01/14 03:06 / dck	06/27/14 09:25	ICPMS204-B_140630A	215	25106
Lead	0.0015	mg/L		0.0003		E200.8	07/01/14 03:06 / dck	06/27/14 09:25	ICPMS204-B_140630A	215	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14060541-009
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 12:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	4	mg/L		1		E200.7	07/01/14 00:07 / sld	06/27/14 09:25	ICP2-HE_140630B	: 205	25106
Zinc	0.010	mg/L		0.008		E200.8	07/01/14 03:06 / dck	06/27/14 09:25	ICPMS204-B_140630A	: 215	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14060541-010
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 12:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	7	mg/L		2		A2540 D	06/27/14 11:29 / blm		I24 (14410200)_140627A	16	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	69	mg/L		4		A2320 B	06/27/14 19:51 / SR		PHSC_101-H_140627A	276	R98374
Bicarbonate as HCO3	74	mg/L		4		A2320 B	06/27/14 19:51 / SR		PHSC_101-H_140627A	276	R98374
Chloride	6	mg/L		1		E300.0	06/27/14 21:51 / SR		IC102-H_140627A	70	R98436
Sulfate	36	mg/L		1		E300.0	06/27/14 21:51 / SR		IC102-H_140627A	70	R98436
Hardness as CaCO3	87	mg/L		1		A2340 B	07/01/14 00:11 / abb		CALC_140701A	399	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	5.1	mg/L		0.5		A5310 C	06/30/14 22:11 / eli-c		SUB-C188112	24	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:40 / cm		FIA203-HE_140707B	34	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:13 / cm		FIA203-HE_140630A	75	R98451
Nitrogen, Total	0.32	mg/L		0.05		A4500 N-C	07/02/14 09:01 / cm	07/01/14 12:12	FIA203-HE_140702A	27	25174
Phosphorus, Total as P	0.045	mg/L		0.005		E365.1	06/30/14 14:57 / cm	06/30/14 13:53	FIA202-HE_140630B	38	25153
METALS, DISSOLVED											
Arsenic	0.026	mg/L		0.001		E200.8	07/02/14 01:03 / dck		ICPMS204-B_140701B	134	R98549
Cadmium	0.00003	mg/L		0.00003		E200.8	07/02/14 01:03 / dck		ICPMS204-B_140701B	134	R98549
Copper	0.006	mg/L		0.001		E200.8	07/01/14 03:10 / dck		ICPMS204-B_140630A	216	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 03:10 / dck		ICPMS204-B_140630A	216	R98479
Zinc	ND	mg/L		0.008		E200.8	07/01/14 03:10 / dck		ICPMS204-B_140630A	216	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.027	mg/L		0.001		E200.8	07/02/14 01:07 / dck	06/27/14 09:25	ICPMS204-B_140701B	135	25106
Cadmium	0.00010	mg/L		0.00003		E200.8	07/01/14 03:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	217	25106
Calcium	26	mg/L		1		E200.7	07/01/14 00:11 / sld	06/27/14 09:25	ICP2-HE_140630B	206	25106
Copper	0.009	mg/L		0.001		E200.8	07/01/14 03:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	217	25106
Lead	0.0012	mg/L		0.0003		E200.8	07/01/14 03:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	217	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14060541-010
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 12:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	6	mg/L		1		E200.7	07/01/14 00:11 / sld	06/27/14 09:25	ICP2-HE_140630B	: 206	25106
Zinc	0.011	mg/L		0.008		E200.8	07/01/14 03:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	: 217	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14060541-011
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 13:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	10	mg/L		2		A2540 D	06/27/14 11:29 / blm		I24 (14410200)_140627A	17	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	60	mg/L		4		A2320 B	06/27/14 19:59 / SR		PHSC_101-H_140627A	278	R98374
Bicarbonate as HCO3	72	mg/L		4		A2320 B	06/27/14 19:59 / SR		PHSC_101-H_140627A	278	R98374
Chloride	1	mg/L		1		E300.0	06/27/14 22:02 / SR		IC102-H_140627A	71	R98436
Sulfate	25	mg/L		1		E300.0	06/27/14 22:02 / SR		IC102-H_140627A	71	R98436
Hardness as CaCO3	75	mg/L		1		A2340 B	07/01/14 00:15 / abb		CALC_140701A	410	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.4	mg/L		0.5		A5310 C	06/30/14 22:27 / eli-c		SUB-C188112	25	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:41 / cm		FIA203-HE_140707B	35	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:14 / cm		FIA203-HE_140630A	76	R98451
Nitrogen, Total	0.21	mg/L		0.05		A4500 N-C	07/02/14 09:05 / cm	07/01/14 12:12	FIA203-HE_140702A	30	25174
Phosphorus, Total as P	0.028	mg/L		0.005		E365.1	06/30/14 15:03 / cm	06/30/14 13:56	FIA202-HE_140630B	43	25154
METALS, DISSOLVED											
Arsenic	0.024	mg/L		0.001		E200.8	07/02/14 01:12 / dck		ICPMS204-B_140701B	136	R98549
Cadmium	0.00003	mg/L		0.00003		E200.8	07/02/14 01:12 / dck		ICPMS204-B_140701B	136	R98549
Copper	0.004	mg/L		0.001		E200.8	07/01/14 03:19 / dck		ICPMS204-B_140630A	218	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 03:19 / dck		ICPMS204-B_140630A	218	R98479
Zinc	0.011	mg/L		0.008		E200.8	07/01/14 03:19 / dck		ICPMS204-B_140630A	218	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.026	mg/L		0.001		E200.8	07/02/14 01:30 / dck	06/27/14 09:25	ICPMS204-B_140701B	140	25106
Cadmium	0.00011	mg/L		0.00003		E200.8	07/01/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	219	25106
Calcium	22	mg/L		1		E200.7	07/01/14 00:15 / sld	06/27/14 09:25	ICP2-HE_140630B	207	25106
Copper	0.008	mg/L		0.001		E200.8	07/01/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	219	25106
Lead	0.0016	mg/L		0.0003		E200.8	07/01/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	219	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14060541-011
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 13:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	5	mg/L		1		E200.7	07/01/14 00:15 / sld	06/27/14 09:25	ICP2-HE_140630B	207	25106
Zinc	0.010	mg/L		0.008		E200.8	07/01/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	219	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SBC P2
Lab ID: H14060541-012
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 14:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		2		A2540 D	06/27/14 11:30 / blm		I24 (14410200)_140627A	18	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	80	mg/L		4		A2320 B	06/27/14 20:05 / SR		PHSC_101-H_140627A	280	R98374
Bicarbonate as HCO3	65	mg/L		4		A2320 B	06/27/14 20:05 / SR		PHSC_101-H_140627A	280	R98374
Chloride	13	mg/L		1		E300.0	06/27/14 22:35 / SR		IC102-H_140627A	74	R98436
Sulfate	52	mg/L		1		E300.0	06/27/14 22:35 / SR		IC102-H_140627A	74	R98436
Hardness as CaCO3	112	mg/L		1		A2340 B	07/01/14 00:30 / abb		CALC_140701A	421	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	7.2	mg/L		0.5		A5310 C	06/30/14 22:43 / eli-c		SUB-C188112	26	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:42 / cm		FIA203-HE_140707B	36	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:15 / cm		FIA203-HE_140630A	77	R98451
Nitrogen, Total	0.46	mg/L		0.05		A4500 N-C	07/02/14 09:06 / cm	07/01/14 12:12	FIA203-HE_140702A	31	25174
Phosphorus, Total as P	0.074	mg/L		0.005		E365.1	06/30/14 15:06 / cm	06/30/14 13:56	FIA202-HE_140630B	46	25154
METALS, DISSOLVED											
Arsenic	0.029	mg/L		0.001		E200.8	07/02/14 01:34 / dck		ICPMS204-B_140701B	141	R98549
Cadmium	0.00003	mg/L		0.00003		E200.8	07/02/14 01:34 / dck		ICPMS204-B_140701B	141	R98549
Copper	0.008	mg/L		0.001		E200.8	07/01/14 03:54 / dck		ICPMS204-B_140630A	226	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 03:54 / dck		ICPMS204-B_140630A	226	R98479
Zinc	ND	mg/L		0.008		E200.8	07/01/14 03:54 / dck		ICPMS204-B_140630A	226	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.029	mg/L		0.001		E200.8	07/02/14 01:39 / dck	06/27/14 09:25	ICPMS204-B_140701B	142	25106
Cadmium	0.00007	mg/L	D	0.00004		E200.8	07/02/14 01:39 / dck	06/27/14 09:25	ICPMS204-B_140701B	142	25106
Calcium	32	mg/L		1		E200.7	07/01/14 00:30 / sld	06/27/14 09:25	ICP2-HE_140630B	211	25106
Copper	0.008	mg/L		0.001		E200.8	07/01/14 03:58 / dck	06/27/14 09:25	ICPMS204-B_140630A	227	25106
Lead	ND	mg/L		0.0003		E200.8	07/01/14 03:58 / dck	06/27/14 09:25	ICPMS204-B_140630A	227	25106

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SBC P2
Lab ID: H14060541-012
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 14:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	07/01/14 00:30 / sld	06/27/14 09:25	ICP2-HE_140630B	211	25106
Zinc	ND	mg/L		0.008		E200.8	07/01/14 03:58 / dck	06/27/14 09:25	ICPMS204-B_140630A	227	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14060541-013
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 15:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		2		A2540 D	06/27/14 11:31 / blm		I24 (14410200)_140627A	19	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	06/27/14 20:11 / SR		PHSC_101-H_140627A	282	R98374
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	06/27/14 20:11 / SR		PHSC_101-H_140627A	282	R98374
Chloride	ND	mg/L		1		E300.0	06/27/14 23:08 / SR		IC102-H_140627A	77	R98436
Sulfate	ND	mg/L		1		E300.0	06/27/14 23:08 / SR		IC102-H_140627A	77	R98436
Hardness as CaCO3	ND	mg/L		1		A2340 B	07/07/14 07:56 / sld		WATERCALC_140707A	1	R98588
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	ND	mg/L		0.5		A5310 C	06/30/14 22:57 / eli-c		SUB-C188112	27	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:43 / cm		FIA203-HE_140707B	37	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:16 / cm		FIA203-HE_140630A	78	R98451
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	07/02/14 09:07 / cm	07/01/14 12:12	FIA203-HE_140702A	32	25174
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	06/30/14 15:07 / cm	06/30/14 13:56	FIA202-HE_140630B	47	25154
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	07/02/14 01:43 / dck		ICPMS204-B_140701B	143	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 04:03 / dck		ICPMS204-B_140630A	228	R98479
Copper	ND	mg/L		0.001		E200.8	07/01/14 04:03 / dck		ICPMS204-B_140630A	228	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 04:03 / dck		ICPMS204-B_140630A	228	R98479
Zinc	0.012	mg/L		0.008		E200.8	07/01/14 04:03 / dck		ICPMS204-B_140630A	228	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	07/02/14 01:48 / dck	06/27/14 09:25	ICPMS204-B_140701B	144	25106
Cadmium	ND	mg/L		0.00003		E200.8	07/02/14 01:48 / dck	06/27/14 09:25	ICPMS204-B_140701B	144	25106
Calcium	ND	mg/L		1		E200.7	07/01/14 00:34 / sld	06/27/14 09:25	ICP2-HE_140630B	212	25106
Copper	ND	mg/L		0.001		E200.8	07/01/14 04:21 / dck	06/27/14 09:25	ICPMS204-B_140630A	232	25106
Lead	ND	mg/L		0.0003		E200.8	07/01/14 04:21 / dck	06/27/14 09:25	ICPMS204-B_140630A	232	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14060541-013
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 15:00
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	07/01/14 00:34 / sld	06/27/14 09:25	ICP2-HE_140630B	212	25106
Zinc	ND	mg/L		0.008		E200.8	07/02/14 01:48 / dck	06/27/14 09:25	ICPMS204-B_140701B	144	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14060541-014
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 15:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	18	mg/L		2		A2540 D	06/27/14 11:31 / blm		I24 (14410200)_140627A	20	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	51	mg/L		4		A2320 B	06/27/14 20:17 / SR		PHSC_101-H_140627A	284	R98374
Bicarbonate as HCO3	62	mg/L		4		A2320 B	06/27/14 20:17 / SR		PHSC_101-H_140627A	284	R98374
Chloride	ND	mg/L		1		E300.0	06/27/14 23:20 / SR		IC102-H_140627A	78	R98436
Sulfate	6	mg/L		1		E300.0	06/27/14 23:20 / SR		IC102-H_140627A	78	R98436
Hardness as CaCO3	49	mg/L		1		A2340 B	07/01/14 00:45 / abb		CALC_140701A	443	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.7	mg/L		0.5		A5310 C	06/30/14 23:48 / eli-c		SUB-C188112	29	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:45 / cm		FIA203-HE_140707B	38	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:18 / cm		FIA203-HE_140630A	79	R98451
Nitrogen, Total	0.16	mg/L		0.05		A4500 N-C	07/02/14 09:08 / cm	07/01/14 12:12	FIA203-HE_140702A	33	25174
Phosphorus, Total as P	0.033	mg/L		0.005		E365.1	06/30/14 15:08 / cm	06/30/14 13:56	FIA202-HE_140630B	48	25154
METALS, DISSOLVED											
Arsenic	0.025	mg/L		0.001		E200.8	07/02/14 01:53 / dck		ICPMS204-B_140701B	145	R98549
Cadmium	0.00004	mg/L		0.00003		E200.8	07/02/14 01:53 / dck		ICPMS204-B_140701B	145	R98549
Copper	0.005	mg/L		0.001		E200.8	07/01/14 04:25 / dck		ICPMS204-B_140630A	233	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 04:25 / dck		ICPMS204-B_140630A	233	R98479
Zinc	0.011	mg/L		0.008		E200.8	07/01/14 04:25 / dck		ICPMS204-B_140630A	233	R98479
METALS, TOTAL RECOVERABLE											
Arsenic	0.028	mg/L		0.001		E200.8	07/02/14 01:57 / dck	06/27/14 09:25	ICPMS204-B_140701B	146	25106
Cadmium	0.00016	mg/L		0.00003		E200.8	07/01/14 04:30 / dck	06/27/14 09:25	ICPMS204-B_140630A	234	25106
Calcium	14	mg/L		1		E200.7	07/01/14 00:45 / sld	06/27/14 09:25	ICP2-HE_140630B	215	25106
Copper	0.011	mg/L		0.001		E200.8	07/01/14 04:30 / dck	06/27/14 09:25	ICPMS204-B_140630A	234	25106
Lead	0.0027	mg/L		0.0003		E200.8	07/01/14 04:30 / dck	06/27/14 09:25	ICPMS204-B_140630A	234	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14060541-014
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 15:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	3	mg/L		1		E200.7	07/01/14 00:45 / sld	06/27/14 09:25	ICP2-HE_140630B	215	25106
Zinc	0.014	mg/L		0.008		E200.8	07/01/14 04:30 / dck	06/27/14 09:25	ICPMS204-B_140630A	234	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14060541-015
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 15:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	18	mg/L		2		A2540 D	06/27/14 11:31 / blm		I24 (14410200)_140627A	21	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	51	mg/L		4		A2320 B	06/27/14 20:24 / SR		PHSC_101-H_140627A	286	R98374
Bicarbonate as HCO3	61	mg/L		4		A2320 B	06/27/14 20:24 / SR		PHSC_101-H_140627A	286	R98374
Chloride	ND	mg/L		1		E300.0	06/27/14 23:31 / SR		IC102-H_140627A	79	R98436
Sulfate	6	mg/L		1		E300.0	06/27/14 23:31 / SR		IC102-H_140627A	79	R98436
Hardness as CaCO3	47	mg/L		1		A2340 B	07/01/14 00:49 / abb		CALC_140701A	454	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.7	mg/L		0.5		A5310 C	07/01/14 00:36 / eli-c		SUB-C188112	32	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:46 / cm		FIA203-HE_140707B	39	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:19 / cm		FIA203-HE_140630A	80	R98451
Nitrogen, Total	0.19	mg/L		0.05		A4500 N-C	07/02/14 09:09 / cm	07/01/14 12:12	FIA203-HE_140702A	34	25174
Phosphorus, Total as P	0.034	mg/L		0.005		E365.1	06/30/14 15:09 / cm	06/30/14 13:56	FIA202-HE_140630B	49	25154
METALS, DISSOLVED											
Arsenic	0.025	mg/L		0.001		E200.8	07/02/14 02:02 / dck		ICPMS204-B_140701B	147	R98549
Cadmium	0.00004	mg/L		0.00003		E200.8	07/02/14 02:02 / dck		ICPMS204-B_140701B	147	R98549
Copper	0.005	mg/L		0.001		E200.8	07/01/14 05:01 / dck		ICPMS204-B_140630A	241	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 05:01 / dck		ICPMS204-B_140630A	241	R98479
Zinc	0.012	mg/L		0.008		E200.8	07/02/14 02:02 / dck		ICPMS204-B_140701B	147	R98549
METALS, TOTAL RECOVERABLE											
Arsenic	0.028	mg/L		0.001		E200.8	07/02/14 02:20 / dck	06/27/14 09:25	ICPMS204-B_140701B	151	25106
Cadmium	0.00016	mg/L		0.00003		E200.8	07/01/14 05:05 / dck	06/27/14 09:25	ICPMS204-B_140630A	242	25106
Calcium	14	mg/L		1		E200.7	07/01/14 00:49 / sld	06/27/14 09:25	ICP2-HE_140630B	216	25106
Copper	0.011	mg/L		0.001		E200.8	07/01/14 05:05 / dck	06/27/14 09:25	ICPMS204-B_140630A	242	25106
Lead	0.0026	mg/L		0.0003		E200.8	07/01/14 05:05 / dck	06/27/14 09:25	ICPMS204-B_140630A	242	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14060541-015
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/25/14 15:30
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	3	mg/L		1		E200.7	07/01/14 00:49 / sld	06/27/14 09:25	ICP2-HE_140630B	216	25106
Zinc	0.015	mg/L		0.008		E200.8	07/02/14 02:20 / dck	06/27/14 09:25	ICPMS204-B_140701B	151	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14060541-016
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 11:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	18	mg/L		2		A2540 D	06/27/14 11:32 / blm		I24 (14410200)_140627A	22	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	06/27/14 20:30 / SR		PHSC_101-H_140627A	288	R98374
Bicarbonate as HCO3	160	mg/L		4		A2320 B	06/27/14 20:30 / SR		PHSC_101-H_140627A	288	R98374
Chloride	3	mg/L		1		E300.0	06/27/14 23:42 / SR		IC102-H_140627A	80	R98436
Sulfate	37	mg/L		1		E300.0	06/27/14 23:42 / SR		IC102-H_140627A	80	R98436
Hardness as CaCO3	146	mg/L		1		A2340 B	07/01/14 00:53 / abb		CALC_140701A	465	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.9	mg/L		0.5		A5310 C	07/01/14 00:53 / eli-c		SUB-C188112	33	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:51 / cm		FIA203-HE_140707B	43	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:20 / cm		FIA203-HE_140630A	81	R98451
Nitrogen, Total	0.29	mg/L		0.05		A4500 N-C	07/02/14 09:11 / cm	07/01/14 12:12	FIA203-HE_140702A	35	25174
Phosphorus, Total as P	0.047	mg/L		0.005		E365.1	06/30/14 15:10 / cm	06/30/14 13:56	FIA202-HE_140630B	50	25154
METALS, DISSOLVED											
Arsenic	0.012	mg/L		0.001		E200.8	07/02/14 02:24 / dck		ICPMS204-B_140701B	152	R98549
Cadmium	0.00004	mg/L		0.00003		E200.8	07/02/14 02:24 / dck		ICPMS204-B_140701B	152	R98549
Copper	0.009	mg/L		0.001		E200.8	07/01/14 05:10 / dck		ICPMS204-B_140630A	243	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 05:10 / dck		ICPMS204-B_140630A	243	R98479
Zinc	0.013	mg/L		0.008		E200.8	07/02/14 02:24 / dck		ICPMS204-B_140701B	152	R98549
METALS, TOTAL RECOVERABLE											
Arsenic	0.014	mg/L		0.001		E200.8	07/02/14 02:29 / dck	06/27/14 09:25	ICPMS204-B_140701B	153	25106
Cadmium	0.00013	mg/L		0.00003		E200.8	07/01/14 05:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	244	25106
Calcium	43	mg/L		1		E200.7	07/01/14 00:53 / sld	06/27/14 09:25	ICP2-HE_140630B	217	25106
Copper	0.028	mg/L		0.001		E200.8	07/01/14 05:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	244	25106
Lead	0.0033	mg/L		0.0003		E200.8	07/01/14 05:14 / dck	06/27/14 09:25	ICPMS204-B_140630A	244	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14060541-016
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 11:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	07/01/14 00:53 / sld	06/27/14 09:25	ICP2-HE_140630B	217	25106
Mercury	0.000037	mg/L		5E-06		E245.1	07/09/14 14:15 / sbk	07/07/14 13:52	HGCV202-H_140709A	42	25247
Zinc	0.027	mg/L		0.008		E200.8	07/02/14 02:29 / dck	06/27/14 09:25	ICPMS204-B_140701B	153	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14060541-017
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 13:15
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		2		A2540 D	06/30/14 11:14 / blm		I24 (14410200)_140627A	79	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	06/27/14 20:36 / SR		PHSC_101-H_140627A	290	R98374
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	06/27/14 20:36 / SR		PHSC_101-H_140627A	290	R98374
Chloride	ND	mg/L		1		E300.0	06/27/14 23:53 / SR		IC102-H_140627A	81	R98436
Sulfate	ND	mg/L		1		E300.0	06/27/14 23:53 / SR		IC102-H_140627A	81	R98436
Hardness as CaCO3	ND	mg/L		1		A2340 B	07/07/14 07:56 / sld		WATERCALC_140707A	2	R98588
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.5	mg/L		0.5		A5310 C	07/01/14 01:07 / eli-c		SUB-C188112	34	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:54 / cm		FIA203-HE_140707B	46	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:21 / cm		FIA203-HE_140630A	82	R98451
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	07/02/14 09:12 / cm	07/01/14 12:12	FIA203-HE_140702A	36	25174
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	06/30/14 15:11 / cm	06/30/14 13:56	FIA202-HE_140630B	51	25154
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	07/02/14 02:33 / dck		ICPMS204-B_140701B	154	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 05:19 / dck		ICPMS204-B_140630A	245	R98479
Copper	ND	mg/L		0.001		E200.8	07/01/14 05:19 / dck		ICPMS204-B_140630A	245	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 05:19 / dck		ICPMS204-B_140630A	245	R98479
Zinc	0.009	mg/L		0.008		E200.8	07/02/14 02:33 / dck		ICPMS204-B_140701B	154	R98549
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	07/02/14 02:38 / dck	06/27/14 09:25	ICPMS204-B_140701B	155	25106
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 05:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	246	25106
Calcium	ND	mg/L		1		E200.7	07/01/14 00:56 / sld	06/27/14 09:25	ICP2-HE_140630B	218	25106
Copper	ND	mg/L		0.001		E200.8	07/01/14 05:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	246	25106
Lead	ND	mg/L		0.0003		E200.8	07/01/14 05:23 / dck	06/27/14 09:25	ICPMS204-B_140630A	246	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14060541-017
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 13:15
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	07/01/14 00:56 / sld	06/27/14 09:25	ICP2-HE_140630B	218	25106
Mercury	ND	mg/L		5E-06		E245.1	07/09/14 14:19 / sbk	07/07/14 13:52	HGCV202-H_140709A	43	25247
Zinc	ND	mg/L		0.008		E200.8	07/02/14 02:38 / dck	06/27/14 09:25	ICPMS204-B_140701B	155	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14060541-018
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 13:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	13	mg/L		2		A2540 D	06/27/14 17:11 / blm		I24 (14410200)_140627A	78	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	06/27/14 20:42 / SR		PHSC_101-H_140627A	292	R98374
Bicarbonate as HCO3	160	mg/L		4		A2320 B	06/27/14 20:42 / SR		PHSC_101-H_140627A	292	R98374
Chloride	3	mg/L		1		E300.0	06/28/14 00:04 / SR		IC102-H_140627A	82	R98436
Sulfate	8	mg/L		1		E300.0	06/28/14 00:04 / SR		IC102-H_140627A	82	R98436
Hardness as CaCO3	129	mg/L		1		A2340 B	07/01/14 01:00 / abb		CALC_140701A	487	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.7	mg/L		0.5		A5310 C	07/01/14 01:23 / eli-c		SUB-C188112	35	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:55 / cm		FIA203-HE_140707B	47	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:25 / cm		FIA203-HE_140630A	85	R98451
Nitrogen, Total	0.34	mg/L		0.05		A4500 N-C	07/02/14 09:13 / cm	07/01/14 12:12	FIA203-HE_140702A	37	25174
Phosphorus, Total as P	0.048	mg/L		0.005		E365.1	06/30/14 15:12 / cm	06/30/14 13:56	FIA202-HE_140630B	52	25154
METALS, DISSOLVED											
Arsenic	0.009	mg/L		0.001		E200.8	07/02/14 02:42 / dck		ICPMS204-B_140701B	156	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 05:28 / dck		ICPMS204-B_140630A	247	R98479
Copper	0.001	mg/L		0.001		E200.8	07/01/14 05:28 / dck		ICPMS204-B_140630A	247	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 05:28 / dck		ICPMS204-B_140630A	247	R98479
Zinc	0.014	mg/L		0.008		E200.8	07/02/14 02:42 / dck		ICPMS204-B_140701B	156	R98549
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	07/02/14 03:00 / dck	06/27/14 09:25	ICPMS204-B_140701B	160	25106
Cadmium	0.00006	mg/L		0.00003		E200.8	07/02/14 03:00 / dck	06/27/14 09:25	ICPMS204-B_140701B	160	25106
Calcium	36	mg/L		1		E200.7	07/01/14 01:00 / sld	06/27/14 09:25	ICP2-HE_140630B	219	25106
Copper	0.003	mg/L		0.001		E200.8	07/01/14 05:32 / dck	06/27/14 09:25	ICPMS204-B_140630A	248	25106
Lead	0.0048	mg/L		0.0003		E200.8	07/01/14 05:32 / dck	06/27/14 09:25	ICPMS204-B_140630A	248	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14060541-018
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 13:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	07/01/14 01:00 / sld	06/27/14 09:25	ICP2-HE_140630B	219	25106
Mercury	0.00022	mg/L		5E-06		E245.1	07/09/14 14:23 / sbk	07/07/14 13:52	HGCV202-H_140709A	44	25247
Zinc	0.015	mg/L		0.008		E200.8	07/02/14 03:00 / dck	06/27/14 09:25	ICPMS204-B_140701B	160	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14060541-019
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 13:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		2		A2540 D	06/27/14 11:35 / blm		I24 (14410200)_140627A	27	TSS140627A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	06/27/14 20:50 / SR		PHSC_101-H_140627A	294	R98374
Bicarbonate as HCO3	170	mg/L		4		A2320 B	06/27/14 20:50 / SR		PHSC_101-H_140627A	294	R98374
Chloride	3	mg/L		1		E300.0	06/28/14 00:15 / SR		IC102-H_140627A	83	R98436
Sulfate	8	mg/L		1		E300.0	06/28/14 00:15 / SR		IC102-H_140627A	83	R98436
Hardness as CaCO3	122	mg/L		1		A2340 B	07/01/14 01:04 / abb		CALC_140701A	498	R98472
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.9	mg/L		0.5		A5310 C	07/01/14 01:38 / eli-c		SUB-C188112	36	C_R188112
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	07/07/14 11:57 / cm		FIA203-HE_140707B	48	R98605
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	06/30/14 16:28 / cm		FIA203-HE_140630A	88	R98451
Nitrogen, Total	0.21	mg/L		0.05		A4500 N-C	07/02/14 09:14 / cm	07/01/14 12:12	FIA203-HE_140702A	38	25174
Phosphorus, Total as P	0.049	mg/L		0.005		E365.1	06/30/14 15:13 / cm	06/30/14 13:56	FIA202-HE_140630B	53	25154
METALS, DISSOLVED											
Arsenic	0.009	mg/L		0.001		E200.8	07/02/14 03:05 / dck		ICPMS204-B_140701B	161	R98549
Cadmium	ND	mg/L		0.00003		E200.8	07/01/14 05:37 / dck		ICPMS204-B_140630A	249	R98479
Copper	0.002	mg/L		0.001		E200.8	07/01/14 05:37 / dck		ICPMS204-B_140630A	249	R98479
Lead	ND	mg/L		0.0003		E200.8	07/01/14 05:37 / dck		ICPMS204-B_140630A	249	R98479
Zinc	0.014	mg/L		0.008		E200.8	07/02/14 03:05 / dck		ICPMS204-B_140701B	161	R98549
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	07/02/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140701B	165	25106
Cadmium	0.00005	mg/L		0.00003		E200.8	07/02/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140701B	165	25106
Calcium	34	mg/L		1		E200.7	07/01/14 01:04 / sld	06/27/14 09:25	ICP2-HE_140630B	220	25106
Copper	0.003	mg/L		0.001		E200.8	07/01/14 05:41 / dck	06/27/14 09:25	ICPMS204-B_140630A	250	25106
Lead	0.0039	mg/L		0.0003		E200.8	07/01/14 05:41 / dck	06/27/14 09:25	ICPMS204-B_140630A	250	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14060541-019
Matrix: Aqueous

Project: CFR OU Monitoring
Collection Date: 06/24/14 13:45
DateReceived: 06/26/14
Report Date: 07/23/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	07/01/14 01:04 / sld	06/27/14 09:25	ICP2-HE_140630B	220	25106
Mercury	0.00019	mg/L		5E-06		E245.1	07/09/14 14:28 / sbk	07/07/14 13:52	HGCV202-H_140709A	45	25247
Zinc	0.014	mg/L		0.008		E200.8	07/02/14 03:23 / dck	06/27/14 09:25	ICPMS204-B_140701B	165	25106

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140709wa

Date: *23-Jul-14*

Run ID :Run Order: **HGCV202-H_140709A: 37** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **07/09/14 13:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00021	0.00010	0.0002		104	90	110				

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **HGCV202-H_140709A: 38** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **07/09/14 13:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002		101	95	105				

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25106

Date: *23-Jul-14*

Run ID :Run Order: **ICP2-HE_140630B: 181** SampType: **Method Blank** Lab ID: **MB-25106** Method: **E200.7**
Analysis Date: **06/30/14 22:37** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.06	0.03									
Magnesium	ND	0.01									

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 191** SampType: **Laboratory Control Sample** Lab ID: **LCS-25106** Method: **E200.7**
Analysis Date: **06/30/14 23:15** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.8	1.0	25	0.05511	95	85	115				
Magnesium	23.8	1.0	25		95	85	115				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 193** SampType: **Serial Dilution** Lab ID: **H14060541-001CDIL** Method: **E200.7**
Analysis Date: **06/30/14 23:22** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	26.1	1.0				0	0	24.94	4.6	10	
Magnesium	6.39	1.0				0	0	6.055	5.3	10	

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 194** SampType: **Sample Matrix Spike** Lab ID: **H14060541-001CMS3** Method: **E200.7**
Analysis Date: **06/30/14 23:26** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	50.0	1.0	25	24.94	100	70	130				
Magnesium	28.9	1.0	25	6.055	91	70	130				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25106

Date: *23-Jul-14*

Run ID :Run Order: **ICP2-HE_140630B: 195** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-001CMSD3** Method: **E200.7**
Analysis Date: **06/30/14 23:30** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	48.7	1.0	25	24.94	95	70	130	49.98	2.5	20	
Magnesium	28.1	1.0	25	6.055	88	70	130	28.87	2.6	20	

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 208** SampType: **Serial Dilution** Lab ID: **H14060541-011CDIL** Method: **E200.7**
Analysis Date: **07/01/14 00:19** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	22.8	1.0				0	0	22.35	2.0	10	
Magnesium	4.66	1.0				0	0	4.682	0.5	10	

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 209** SampType: **Sample Matrix Spike** Lab ID: **H14060541-011CMS3** Method: **E200.7**
Analysis Date: **07/01/14 00:23** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	44.5	1.0	25	22.35	89	70	130				
Magnesium	26.0	1.0	25	4.682	85	70	130				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 210** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-011CMSD3** Method: **E200.7**
Analysis Date: **07/01/14 00:26** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	46.1	1.0	25	22.35	95	70	130	44.49	3.6	20	
Magnesium	27.5	1.0	25	4.682	91	70	130	26.01	5.5	20	

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25106

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 183** SampType: **Method Blank** Lab ID: **MB-25106** Method: **E200.8**
Analysis Date: **07/01/14 00:45** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	9E-05	6E-05									
Cadmium	ND	3E-05									
Copper	ND	0.0003									
Lead	8E-05	3E-05									
Zinc	0.002	0.001									

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 184** SampType: **Laboratory Control Sample** Lab ID: **LCS-25106** Method: **E200.8**
Analysis Date: **07/01/14 00:49** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.515	0.0010	0.5	0.0000888	103	85	115				
Cadmium	0.242	0.0010	0.25		97	85	115				
Copper	0.488	0.0050	0.5		98	85	115				
Lead	0.492	0.0010	0.5	0.0000756	98	85	115				
Zinc	0.484	0.010	0.5	0.001865	97	85	115				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 188** SampType: **Sample Matrix Spike** Lab ID: **H14060541-001CMS3** Method: **E200.8**
Analysis Date: **07/01/14 01:07** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.530	0.0010	0.5	0.007185	105	70	130				
Cadmium	0.242	0.0010	0.25	0.0000588	97	70	130				
Copper	0.494	0.0050	0.5	0.01222	96	70	130				
Lead	0.498	0.0010	0.5	0.001554	99	70	130				
Zinc	0.494	0.010	0.5	0.01611	96	70	130				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25106

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 189** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-001CMSD3** Method: **E200.8**

Analysis Date: **07/01/14 01:11** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.517	0.0010	0.5	0.007185	102	70	130	0.53	2.5	20	
Cadmium	0.234	0.0010	0.25	0.0000588	94	70	130	0.242	3.4	20	
Copper	0.493	0.0050	0.5	0.01222	96	70	130	0.4939	0.3	20	
Lead	0.498	0.0010	0.5	0.001554	99	70	130	0.4979	0.1	20	
Zinc	0.490	0.010	0.5	0.01611	95	70	130	0.4944	0.9	20	

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 220** SampType: **Sample Matrix Spike** Lab ID: **H14060541-011CMS3** Method: **E200.8**

Analysis Date: **07/01/14 03:28** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.589	0.0010	0.5	0.02816	112	70	130				
Cadmium	0.264	0.0010	0.25	0.0001076	106	70	130				
Copper	0.538	0.0050	0.5	0.008327	106	70	130				
Lead	0.541	0.0010	0.5	0.001644	108	70	130				
Zinc	0.533	0.010	0.5	0.01022	105	70	130				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 221** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-011CMSD3** Method: **E200.8**

Analysis Date: **07/01/14 03:32** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.594	0.0010	0.5	0.02816	113	70	130	0.5886	0.8	20	
Cadmium	0.266	0.0010	0.25	0.0001076	106	70	130	0.2644	0.6	20	
Copper	0.539	0.0050	0.5	0.008327	106	70	130	0.5376	0.3	20	
Lead	0.541	0.0010	0.5	0.001644	108	70	130	0.5409	0.1	20	
Zinc	0.533	0.010	0.5	0.01022	105	70	130	0.5331	0.1	20	

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25106

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140701B: 113** SampType: **Method Blank** Lab ID: **MB-25106** Method: **E200.8**

Analysis Date: **07/01/14 23:28** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method: **E200.2**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	6E-05									
Cadmium	ND	3E-05									
Copper	ND	0.0003									
Lead	8E-05	3E-05									
Zinc	0.002	0.001									

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25153

Date: *23-Jul-14*

Run ID :Run Order: **FIA202-HE_140630B: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-25153** Method: **E365.1**
Analysis Date: **06/30/14 14:30** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.425	0.010	0.4		106	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D**

Run ID :Run Order: **FIA202-HE_140630B: 12** SampType: **Method Blank** Lab ID: **MB-25153** Method: **E365.1**
Analysis Date: **06/30/14 14:31** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D**

Run ID :Run Order: **FIA202-HE_140630B: 28** SampType: **Sample Matrix Spike** Lab ID: **H14060541-001Dms** Method: **E365.1**
Analysis Date: **06/30/14 14:47** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.239	0.010	0.2	0.02608	106	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D**

Run ID :Run Order: **FIA202-HE_140630B: 29** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-001Dmsd** Method: **E365.1**
Analysis Date: **06/30/14 14:48** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.225	0.010	0.2	0.02608	100	90	110	0.2386	5.8	20	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25154

Date: *23-Jul-14*

Run ID :Run Order: **FIA202-HE_140630B: 39** SampType: **Laboratory Control Sample** Lab ID: **LCS-25154** Method: **E365.1**
Analysis Date: **06/30/14 14:58** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.428	0.010	0.4		107	90	110				

Associated samples: **H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA202-HE_140630B: 40** SampType: **Method Blank** Lab ID: **MB-25154** Method: **E365.1**
Analysis Date: **06/30/14 14:59** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA202-HE_140630B: 44** SampType: **Sample Matrix Spike** Lab ID: **H14060541-011Dms** Method: **E365.1**
Analysis Date: **06/30/14 15:04** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.235	0.010	0.2	0.02808	103	90	110				

Associated samples: **H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA202-HE_140630B: 45** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-011Dmsd** Method: **E365.1**
Analysis Date: **06/30/14 15:05** Units: **mg/L** **Prep Info:** Prep Date: **6/30/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.239	0.010	0.2	0.02808	105	90	110	0.2346	1.8	20	

Associated samples: **H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25174

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140702A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-25174** Method: **A4500 N-C**
Analysis Date: **07/02/14 08:42** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	14.8	0.30	15.2		97	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 12** SampType: **Method Blank** Lab ID: **MB-25174** Method: **A4500 N-C**
Analysis Date: **07/02/14 08:43** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 14** SampType: **Sample Matrix Spike** Lab ID: **H14060528-003BMS** Method: **A4500 N-C**
Analysis Date: **07/02/14 08:46** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.950	0.10	1		95	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 15** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060528-003BMSD** Method: **A4500 N-C**
Analysis Date: **07/02/14 08:47** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.981	0.10	1		98	90	110	0.9503	3.1	20	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 28** SampType: **Sample Matrix Spike** Lab ID: **H14060541-010AMS** Method: **A4500 N-C**
Analysis Date: **07/02/14 09:02** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.17	0.10	1	0.3193	85	90	110				S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25174

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140702A: 28** SampType: **Sample Matrix Spike** Lab ID: **H14060541-010AMS** Method: **A4500 N-C**

Analysis Date: **07/02/14 09:02** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 29** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-010AMSD** Method: **A4500 N-C**

Analysis Date: **07/02/14 09:03** Units: **mg/L** **Prep Info:** Prep Date: **7/1/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.21	0.10	1	0.3193	89	90	110	1.167	3.7	20	S

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 25247

Date: *23-Jul-14*

Run ID :Run Order: **HGCV202-H_140709A: 4** SampType: **Method Blank** Lab ID: **MB-25247** Method: **E245.1**
Analysis Date: **07/09/14 10:25** Units: **mg/L** **Prep Info:** Prep Date: **7/7/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	1E-06									

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **HGCV202-H_140709A: 7** SampType: **Laboratory Control Sample** Lab ID: **LCS-25247** Method: **E245.1**
Analysis Date: **07/09/14 10:37** Units: **mg/L** **Prep Info:** Prep Date: **7/7/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015		94	90	110				

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **HGCV202-H_140709A: 30** SampType: **Sample Matrix Spike** Lab ID: **H14060563-002DMS** Method: **E245.1**
Analysis Date: **07/09/14 12:39** Units: **mg/L** **Prep Info:** Prep Date: **7/7/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00017	0.00010	0.00015	0.00000703	109	70	130				

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **HGCV202-H_140709A: 31** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060563-002DMSD** Method: **E245.1**
Analysis Date: **07/09/14 12:43** Units: **mg/L** **Prep Info:** Prep Date: **7/7/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00017	0.00010	0.00015	0.00000703	107	70	130	0.000171	1.6	20	

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **HGCV202-H_140709A: 48** SampType: **Sample Matrix Spike** Lab ID: **H14060563-002DMS** Method: **E245.1**
Analysis Date: **07/09/14 14:40** Units: **mg/L** **Prep Info:** Prep Date: **7/7/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000463	103	70	130				

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **HGCV202-H_140709A: 49** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060563-002DMSD** Method: **E245.1**
Analysis Date: **07/09/14 14:45** Units: **mg/L** **Prep Info:** Prep Date: **7/7/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000463	101	70	130	0.0001597	2.2	20	

Associated samples: **H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_41808

Date: *23-Jul-14*

Run ID :Run Order: **SUB-C188057: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-41808** Method: **A5310 C**
Analysis Date: **06/27/14 08:36** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.2	0.50	10		102	90	110				

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 2** SampType: **Method Blank** Lab ID: **MB-41808** Method: **A5310 C**
Analysis Date: **06/27/14 08:57** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	0.2	0.07									

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 3** SampType: **Laboratory Control Sample** Lab ID: **LCS-41808** Method: **A5310 C**
Analysis Date: **06/27/14 14:08** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	10	0.2235	99	90	110				

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 4** SampType: **Sample Matrix Spike** Lab ID: **C14060976-003EMS** Method: **A5310 C**
Analysis Date: **06/27/14 16:46** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.18	0.50	5	2.179	100	85	115				

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 5** SampType: **Sample Matrix Spike Duplicate** Lab ID: **C14060976-003EMSD** Method: **A5310 C**
Analysis Date: **06/27/14 16:58** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.21	0.50	5	2.179	101	85	115	7.178	0.4	10	

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 6** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-41808** Method: **A5310 C**
Analysis Date: **06/27/14 17:21** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.0	0.50	10		100	90	110				

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_41808

Date: *23-Jul-14*

Run ID :Run Order: **SUB-C188057: 13** SampType: **Sample Matrix Spike** Lab ID: **C14060979-005AMS** Method: **A5310 C**
Analysis Date: **06/27/14 19:51** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.86	0.50	5	2.62	105	85	115				

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 14** SampType: **Sample Matrix Spike Duplicate** Lab ID: **C14060979-005AMSD** Method: **A5310 C**
Analysis Date: **06/27/14 20:02** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.93	0.50	5	2.62	106	85	115	7.861	0.9	10	

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Run ID :Run Order: **SUB-C188057: 15** SampType: **Laboratory Control Sample** Lab ID: **LCS-41808** Method: **A5310 C**
Analysis Date: **06/27/14 17:09** Units: **mg/L** **Prep Info:** Prep Date: **6/27/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.67	0.50	10	0.2235	94	90	110				

Associated samples: **H14060541-001E, H14060541-002E, H14060541-003E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R188112

Date: *23-Jul-14*

Run ID :Run Order: **SUB-C188112: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **A5310 C**
Analysis Date: **06/30/14 19:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	ND	0.04									

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 14** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-8116** Method: **A5310 C**
Analysis Date: **06/30/14 19:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	10		101	90	110				

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 15** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-7923** Method: **A5310 C**
Analysis Date: **06/30/14 19:46** Units: **mg/L** **Prep Info:** Prep Date: **5/10/2005** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.98	0.50	10		100	90	110				

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 17** SampType: **Sample Matrix Spike** Lab ID: **H14060541-004E** Method: **A5310 C**
Analysis Date: **06/30/14 20:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.96	0.50	5	4.485	110	85	115				

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 18** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-004E** Method: **A5310 C**
Analysis Date: **06/30/14 20:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.86	0.50	5	4.485	108	85	115	9.96	1.0	10	

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R188112

Date: *23-Jul-14*

Run ID :Run Order: **SUB-C188112: 28** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-7923** Method: **A5310 C**
Analysis Date: **06/30/14 23:15** Units: **mg/L** **Prep Info:** Prep Date: **5/10/2005** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.6	0.50	10		106	90	110				

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 30** SampType: **Sample Matrix Spike** Lab ID: **H14060541-014E** Method: **A5310 C**
Analysis Date: **07/01/14 00:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.08	0.50	5	3.668	108	85	115				

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 31** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-014E** Method: **A5310 C**
Analysis Date: **07/01/14 00:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.12	0.50	5	3.668	109	85	115	9.078	0.5	10	

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Run ID :Run Order: **SUB-C188112: 37** SampType: **Laboratory Control Sample** Lab ID: **LCS-8116** Method: **A5310 C**
Analysis Date: **07/01/14 01:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.5	0.50	10		105	90	110				

Associated samples: **H14060541-004E, H14060541-005E, H14060541-006E, H14060541-007E, H14060541-008E, H14060541-009E, H14060541-010E, H14060541-011E, H14060541-012E, H14060541-013E, H14060541-014E, H14060541-015E, H14060541-016E, H14060541-017E, H14060541-018E, H14060541-019E**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98374

Date: *23-Jul-14*

Run ID :Run Order: **PHSC_101-H_140627A: 214** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **06/27/14 15:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	3	0.9									

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 216** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **06/27/14 15:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	580	4.0	600	3.35	96	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 219** SampType: **Sample Duplicate** Lab ID: **H14060514-007ADUP** Method: **A2320 B**
Analysis Date: **06/27/14 16:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	2.6	4.0						2.6		10	
Bicarbonate as HCO3	2.6	4.0						2.562		10	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 223** SampType: **Sample Matrix Spike** Lab ID: **H14060514-008AMS** Method: **A2320 B**
Analysis Date: **06/27/14 16:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	760	4.0	600	235.6	87	80	120				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 260** SampType: **Sample Duplicate** Lab ID: **H14060541-005ADUP** Method: **A2320 B**
Analysis Date: **06/27/14 18:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	90	4.0						88.15	2.4	10	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98374

Date: *23-Jul-14*

Run ID :Run Order: **PHSC_101-H_140627A: 260** SampType: **Sample Duplicate** Lab ID: **H14060541-005ADUP** Method: **A2320 B**
Analysis Date: **06/27/14 18:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bicarbonate as HCO3	110	4.0						106.9	2.4	10	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 262** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **06/27/14 18:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	2	0.9									

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 264** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **06/27/14 18:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	580	4.0	600	2.4	96	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 267** SampType: **Sample Duplicate** Lab ID: **H14060541-006ADUP** Method: **A2320 B**
Analysis Date: **06/27/14 19:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	88	4.0						87.55	0.3	10	
Bicarbonate as HCO3	110	4.0						106.2	0.3	10	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 271** SampType: **Sample Matrix Spike** Lab ID: **H14060541-007AMS** Method: **A2320 B**
Analysis Date: **06/27/14 19:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	640	4.0	600	82.55	93	80	120				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98374

Date: *23-Jul-14*

Run ID :Run Order: **PHSC_101-H_140627A: 271** SampType: **Sample Matrix Spike** Lab ID: **H14060541-007AMS** Method: **A2320 B**

Analysis Date: **06/27/14 19:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **PHSC_101-H_140627A: 308** SampType: **Sample Duplicate** Lab ID: **H14060546-004ADUP** Method: **A2320 B**

Analysis Date: **06/27/14 21:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	2.2	4.0						2.3		10	
Bicarbonate as HCO3	2.1	4.0						2.196		10	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98436

Date: *23-Jul-14*

Run ID :Run Order: **IC102-H_140627A: 12** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**

Analysis Date: **06/27/14 11:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100		102	90	110				
Sulfate	410	1.0	400		102	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 13** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**

Analysis Date: **06/27/14 11:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.008									
Sulfate	ND	0.08									

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 14** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**

Analysis Date: **06/27/14 11:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	47	1.0	50		94	90	110				
Sulfate	190	1.0	200		97	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 44** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV062714-3** Method: **E300.0**

Analysis Date: **06/27/14 17:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		108	90	110				
Sulfate	410	1.0	400		102	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98436

Date: *23-Jul-14*

Run ID :Run Order: **IC102-H_140627A: 58** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV062714-4** Method: **E300.0**
Analysis Date: **06/27/14 19:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		108	90	110				
Sulfate	410	1.0	400		103	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 61** SampType: **Sample Matrix Spike** Lab ID: **H14060541-002AMS** Method: **E300.0**
Analysis Date: **06/27/14 20:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53	1.0	50	3.492	99	90	110				
Sulfate	230	1.0	200	27.56	103	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 62** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-002AMSD** Method: **E300.0**
Analysis Date: **06/27/14 20:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53	1.0	50	3.492	98	90	110	53.05	0.8	20	
Sulfate	230	1.0	200	27.56	101	90	110	233.4	1.5	20	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 72** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV062714-5** Method: **E300.0**
Analysis Date: **06/27/14 22:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	100		107	90	110				
Sulfate	410	1.0	400		102	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98436

Date: *23-Jul-14*

Run ID :Run Order: **IC102-H_140627A: 75** SampType: **Sample Matrix Spike** Lab ID: **H14060541-012AMS** Method: **E300.0**
Analysis Date: **06/27/14 22:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	64	1.0	50	12.87	102	90	110				
Sulfate	260	1.0	200	52.12	104	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 76** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-012AMSD** Method: **E300.0**
Analysis Date: **06/27/14 22:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	65	1.0	50	12.87	103	90	110	63.76	1.2	20	
Sulfate	260	1.0	200	52.12	104	90	110	259.8	0.2	20	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 89** SampType: **Sample Matrix Spike** Lab ID: **H14060543-002AMS** Method: **E300.0**
Analysis Date: **06/28/14 01:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	66	1.0	50	13.84	104	90	110				
Sulfate	250	1.0	200	41.63	103	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **IC102-H_140627A: 90** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060543-002AMSD** Method: **E300.0**
Analysis Date: **06/28/14 01:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	66	1.0	50	13.84	104	90	110	65.76	0.3	20	
Sulfate	250	1.0	200	41.63	105	90	110	248.4	1.2	20	

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98450

Date: *23-Jul-14*

Run ID :Run Order: **FIA202-HE_140630B: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**
Analysis Date: **06/30/14 14:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.257	0.010	0.25		103	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA202-HE_140630B: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E365.1**
Analysis Date: **06/30/14 14:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	-0.000450	0.010				0	0				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA202-HE_140630B: 26** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **06/30/14 14:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0946	0.010	0.1		95	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA202-HE_140630B: 42** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **06/30/14 15:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0926	0.010	0.1		93	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98451

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140630A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **06/30/14 14:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.03	0.010	1		103	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **06/30/14 14:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.938	0.011	1		94	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **06/30/14 14:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	-0.0142	0.010				0	0				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **06/30/14 14:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	ND	0.001									

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 56** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **06/30/14 15:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.474	0.010	0.5		95	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98451

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140630A: 56** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **06/30/14 15:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 59** SampType: **Sample Matrix Spike** Lab ID: **H14060536-003BMS** Method: **E353.2**
Analysis Date: **06/30/14 15:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.92	0.011	1	0.9833	94	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 60** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060536-003BMSD** Method: **E353.2**
Analysis Date: **06/30/14 15:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.93	0.011	1	0.9833	95	90	110	1.923	0.6	20	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 70** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **06/30/14 16:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.469	0.010	0.5		94	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 72** SampType: **Sample Matrix Spike** Lab ID: **H14060541-008DMS** Method: **E353.2**
Analysis Date: **06/30/14 16:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.921	0.011	1	0.003039	92	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98451

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140630A: 73** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-008DMSD** Method: **E353.2**
Analysis Date: **06/30/14 16:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.933	0.011	1	0.003039	93	90	110	0.9207	1.3	20	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 84** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **06/30/14 16:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.455	0.010	0.5		91	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 86** SampType: **Sample Matrix Spike** Lab ID: **H14060541-018DMS** Method: **E353.2**
Analysis Date: **06/30/14 16:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.918	0.011	1	0.009657	91	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140630A: 87** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-018DMSD** Method: **E353.2**
Analysis Date: **06/30/14 16:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.936	0.011	1	0.009657	93	90	110	0.918	1.9	20	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98465

Date: *23-Jul-14*

Run ID :Run Order: **ICP2-HE_140630B: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **06/30/14 10:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	39.0	1.0	40		98	95	105				
Magnesium	39.4	1.0	40		99	95	105				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **06/30/14 10:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.9	1.0	25		100	95	105				
Magnesium	24.5	1.0	25		98	95	105				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **06/30/14 10:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	467	1.0	500		93	80	120				
Magnesium	497	1.0	500		99	80	120				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **06/30/14 10:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	462	1.0	500		92	80	120				
Magnesium	493	1.0	500		99	80	120				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98465

Date: *23-Jul-14*

Run ID :Run Order: **ICP2-HE_140630B: 189** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **06/30/14 23:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.8	1.0	25		99	90	110				
Magnesium	24.1	1.0	25		96	90	110				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 201** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **06/30/14 23:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.8	1.0	25		95	90	110				
Magnesium	22.5	1.0	25		90	90	110				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Run ID :Run Order: **ICP2-HE_140630B: 213** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **07/01/14 00:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.1	1.0	25		96	90	110				
Magnesium	22.5	1.0	25		90	90	110				

Associated samples: **H14060541-001C, H14060541-002C, H14060541-003C, H14060541-004C, H14060541-005C, H14060541-006C, H14060541-007C, H14060541-008C, H14060541-009C, H14060541-010C, H14060541-011C, H14060541-012C, H14060541-013C, H14060541-014C, H14060541-015C, H14060541-016C, H14060541-017C, H14060541-018C, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98479

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **06/30/14 11:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0581	0.0050	0.06		97	90	110				
Cadmium	0.0316	0.0010	0.03		105	90	110				
Copper	0.0603	0.010	0.06		100	90	110				
Lead	0.0582	0.010	0.06		97	90	110				
Zinc	0.0597	0.010	0.06		99	90	110				

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **06/30/14 12:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000341	0.0050									
Cadmium	0.000453	0.0010									
Copper	0.000405	0.010									
Lead	0.000281	0.010									
Zinc	0.00163	0.010									

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/30/14 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0104	0.0050	0.01		104	70	130				
Cadmium	0.00968	0.0010	0.01		97	70	130				
Copper	0.0203	0.010	0.02		102	70	130				
Lead	0.000250	0.010				0	0				
Zinc	0.0110	0.010	0.01		110	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98479

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/30/14 12:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 17** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**

Analysis Date: **06/30/14 12:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									
Copper	ND	3E-05									
Lead	ND	8E-06									
Zinc	ND	0.0003									

Associated samples: **H14060541-001B, H14060541-002B, H14060541-003B, H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140630A: 18** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**

Analysis Date: **06/30/14 12:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0527	0.0050	0.05		105	85	115				
Cadmium	0.0515	0.0010	0.05		103	85	115				
Copper	0.0534	0.010	0.05		107	85	115				
Lead	0.0498	0.010	0.05		100	85	115				
Zinc	0.0537	0.010	0.05		107	85	115				

Associated samples: **H14060541-001B, H14060541-002B, H14060541-003B, H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140630A: 73** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **06/30/14 16:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0597	0.0050	0.06		100	90	110				
Cadmium	0.0318	0.0010	0.03		106	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98479

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 73** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **06/30/14 16:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	0.0608	0.010	0.06		101	90	110				
Lead	0.0601	0.010	0.06		100	90	110				
Zinc	0.0625	0.010	0.06		104	90	110				

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 74** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **06/30/14 16:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000345	0.0050									
Cadmium	0.000431	0.0010									
Copper	0.000387	0.010									
Lead	0.000266	0.010									
Zinc	0.00175	0.010									

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 75** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **06/30/14 16:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0103	0.0050	0.01		103	70	130				
Cadmium	0.00954	0.0010	0.01		95	70	130				
Copper	0.0200	0.010	0.02		100	70	130				
Lead	0.000246	0.010				0	0				
Zinc	0.0111	0.010	0.01		111	70	130				

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98479

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 195** SampType: **Sample Matrix Spike** Lab ID: **H14060541-003BMS** Method: **E200.8**

Analysis Date: **07/01/14 01:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0605	0.0010	0.05	0.005919	109	70	130				
Cadmium	0.0512	0.0010	0.05	0.0000107	102	70	130				
Copper	0.0532	0.0050	0.05	0.001076	104	70	130				
Lead	0.0503	0.0010	0.05	0.0000541	100	70	130				
Zinc	0.0583	0.010	0.05	0.005896	105	70	130				

Associated samples: **H14060541-001B, H14060541-002B, H14060541-003B, H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140630A: 196** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-003BMSD** Method: **E200.8**

Analysis Date: **07/01/14 01:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0600	0.0010	0.05	0.005919	108	70	130	0.06052	0.9	20	
Cadmium	0.0524	0.0010	0.05	0.0000107	105	70	130	0.0512	2.3	20	
Copper	0.0536	0.0050	0.05	0.001076	105	70	130	0.05316	0.8	20	
Lead	0.0513	0.0010	0.05	0.0000541	103	70	130	0.0503	2.0	20	
Zinc	0.0581	0.010	0.05	0.005896	104	70	130	0.05828	0.3	20	

Associated samples: **H14060541-001B, H14060541-002B, H14060541-003B, H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140630A: 229** SampType: **Sample Matrix Spike** Lab ID: **H14060541-013BMS** Method: **E200.8**

Analysis Date: **07/01/14 04:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0579	0.0010	0.05	0.0001506	115	70	130				
Cadmium	0.0555	0.0010	0.05	0.000007	111	70	130				
Copper	0.0565	0.0050	0.05	0.0000655	113	70	130				
Lead	0.0536	0.0010	0.05	0.0000109	107	70	130				
Zinc	0.0712	0.010	0.05	0.01196	118	70	130				

Associated samples: **H14060541-001B, H14060541-002B, H14060541-003B, H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98479

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 230** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-013BMSD** Method: **E200.8**

Analysis Date: **07/01/14 04:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0578	0.0010	0.05	0.0001506	115	70	130	0.05788	0.1	20	
Cadmium	0.0558	0.0010	0.05	0.000007	112	70	130	0.05549	0.6	20	
Copper	0.0569	0.0050	0.05	0.0000655	114	70	130	0.05655	0.6	20	
Lead	0.0535	0.0010	0.05	0.0000109	107	70	130	0.05355	0.0	20	
Zinc	0.0712	0.010	0.05	0.01196	119	70	130	0.07121	0.1	20	

Associated samples: **H14060541-001B, H14060541-002B, H14060541-003B, H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140630A: 235** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **07/01/14 04:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000492	0.0050									
Cadmium	0.000454	0.0010									
Copper	0.000435	0.010									
Lead	0.000290	0.010									
Zinc	0.00191	0.010									

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140630A: 236** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **07/01/14 04:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0115	0.0050	0.01		115	70	130				
Cadmium	0.00989	0.0010	0.01		99	70	130				
Copper	0.0216	0.010	0.02		108	70	130				
Lead	0.000266	0.010				0	0				
Zinc	0.0118	0.010	0.01		118	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98479

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140630A: 236** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **07/01/14 04:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060541-001B, H14060541-001C, H14060541-002B, H14060541-002C, H14060541-003B, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98503

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140702A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **07/02/14 08:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.477	0.10	0.5		95	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **07/02/14 08:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.00658	0.10				0	0				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Run ID :Run Order: **FIA203-HE_140702A: 26** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **07/02/14 09:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.496	0.10	0.5		99	90	110				

Associated samples: **H14060541-001A, H14060541-002A, H14060541-003A, H14060541-004A, H14060541-005A, H14060541-006A, H14060541-007A, H14060541-008A, H14060541-009A, H14060541-010A, H14060541-011A, H14060541-012A, H14060541-013A, H14060541-014A, H14060541-015A, H14060541-016A, H14060541-017A, H14060541-018A, H14060541-019A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98549

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140701B: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **07/01/14 10:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0599	0.0050	0.06		100	90	110				
Cadmium	0.0320	0.0010	0.03		107	90	110				
Zinc	0.0617	0.010	0.06		103	90	110				

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140701B: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **07/01/14 10:39** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000361	0.0050									
Cadmium	0.000432	0.0010									
Zinc	0.00188	0.010									

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140701B: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **07/01/14 10:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0104	0.0050	0.01		104	70	130				
Cadmium	0.00955	0.0010	0.01		95	70	130				
Zinc	0.0114	0.010	0.01		114	70	130				

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140701B: 20** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**

Analysis Date: **07/01/14 13:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98549

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140701B: 20** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**
Analysis Date: **07/01/14 13:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	ND	0.0003									

Associated samples: **H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140701B: 21** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**
Analysis Date: **07/01/14 13:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0511	0.0050	0.05		102	85	115				
Cadmium	0.0505	0.0010	0.05		101	85	115				
Zinc	0.0526	0.010	0.05		105	85	115				

Associated samples: **H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140701B: 34** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **07/01/14 17:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0614	0.0050	0.06		102	90	110				
Cadmium	0.0320	0.0010	0.03		107	90	110				
Zinc	0.0636	0.010	0.06		106	90	110				

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140701B: 35** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **07/01/14 17:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000320	0.0050									
Cadmium	0.000423	0.0010									
Zinc	0.00170	0.010									

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98549

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140701B: 36** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **07/01/14 17:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0108	0.0050	0.01		107	70	130				
Cadmium	0.00961	0.0010	0.01		96	70	130				
Zinc	0.0118	0.010	0.01		118	70	130				

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140701B: 128** SampType: **Sample Matrix Spike** Lab ID: **H14060541-008BMS** Method: **E200.8**
Analysis Date: **07/02/14 00:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0725	0.0010	0.05	0.01791	109	70	130				
Cadmium	0.0529	0.0010	0.05	0.0000299	106	70	130				
Zinc	0.0606	0.010	0.05	0.006514	108	70	130				

Associated samples: **H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140701B: 129** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-008BMSD** Method: **E200.8**
Analysis Date: **07/02/14 00:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0702	0.0010	0.05	0.01791	105	70	130	0.07249	3.2	20	
Cadmium	0.0525	0.0010	0.05	0.0000299	105	70	130	0.05288	0.6	20	
Zinc	0.0600	0.010	0.05	0.006514	107	70	130	0.06059	0.9	20	

Associated samples: **H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140701B: 157** SampType: **Sample Matrix Spike** Lab ID: **H14060541-018BMS** Method: **E200.8**
Analysis Date: **07/02/14 02:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0625	0.0010	0.05	0.00894	107	70	130				
Cadmium	0.0528	0.0010	0.05	0.0000141	106	70	130				
Zinc	0.0671	0.010	0.05	0.01448	105	70	130				

Associated samples: **H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98549

Date: *23-Jul-14*

Run ID :Run Order: **ICPMS204-B_140701B: 158** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-018BMSD** Method: **E200.8**

Analysis Date: **07/02/14 02:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0618	0.0010	0.05	0.00894	106	70	130	0.06246	1.1	20	
Cadmium	0.0530	0.0010	0.05	0.0000141	106	70	130	0.0528	0.3	20	
Zinc	0.0678	0.010	0.05	0.01448	107	70	130	0.0671	1.1	20	

Associated samples: **H14060541-004B, H14060541-005B, H14060541-006B, H14060541-007B, H14060541-008B, H14060541-009B, H14060541-010B, H14060541-011B, H14060541-012B, H14060541-013B, H14060541-014B, H14060541-015B, H14060541-016B, H14060541-017B, H14060541-018B, H14060541-019B**

Run ID :Run Order: **ICPMS204-B_140701B: 217** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **07/02/14 07:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000543	0.0050									
Cadmium	0.000373	0.0010									
Zinc	0.00174	0.010									

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Run ID :Run Order: **ICPMS204-B_140701B: 218** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **07/02/14 07:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 3	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0107	0.0050	0.01		107	70	130				
Cadmium	0.00939	0.0010	0.01		94	70	130				
Zinc	0.0113	0.010	0.01		113	70	130				

Associated samples: **H14060541-002C, H14060541-003C, H14060541-004B, H14060541-004C, H14060541-005B, H14060541-005C, H14060541-006B, H14060541-006C, H14060541-007B, H14060541-007C, H14060541-008B, H14060541-008C, H14060541-009B, H14060541-009C, H14060541-010B, H14060541-010C, H14060541-011B, H14060541-011C, H14060541-012B, H14060541-012C, H14060541-013B, H14060541-013C, H14060541-014B, H14060541-014C, H14060541-015B, H14060541-015C, H14060541-016B, H14060541-016C, H14060541-017B, H14060541-017C, H14060541-018B, H14060541-018C, H14060541-019B, H14060541-019C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98605

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140707B: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **07/07/14 11:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	14.6	0.50	15.2		96	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **07/07/14 11:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.02	0.055	1		102	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **07/07/14 11:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.452	0.050	0.5		90	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **07/07/14 11:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.0103	0.050				0	0				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 11** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **07/07/14 11:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.933	0.050	1		93	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98605

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140707B: 11** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **07/07/14 11:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 17** SampType: **Sample Matrix Spike** Lab ID: **H14060536-003BMS** Method: **E350.1**
Analysis Date: **07/07/14 11:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.772	0.055	1		77	80	120				S

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 18** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060536-003BMSD** Method: **E350.1**
Analysis Date: **07/07/14 11:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.826	0.055	1		83	80	120	0.772	6.7	10	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 27** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **07/07/14 11:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.467	0.050	0.5		93	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 29** SampType: **Sample Matrix Spike** Lab ID: **H14060541-006DMS** Method: **E350.1**
Analysis Date: **07/07/14 11:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.890	0.055	1		89	80	120				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R98605

Date: *23-Jul-14*

Run ID :Run Order: **FIA203-HE_140707B: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-006DMSD** Method: **E350.1**
Analysis Date: **07/07/14 11:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.905	0.055	1		91	80	120	0.8901	1.7	10	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 41** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **07/07/14 11:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.464	0.050	0.5		93	90	110				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 44** SampType: **Sample Matrix Spike** Lab ID: **H14060541-016DMS** Method: **E350.1**
Analysis Date: **07/07/14 11:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.843	0.055	1		84	80	120				

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Run ID :Run Order: **FIA203-HE_140707B: 45** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14060541-016DMSD** Method: **E350.1**
Analysis Date: **07/07/14 11:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.864	0.055	1		86	80	120	0.8428	2.5	10	

Associated samples: **H14060541-001D, H14060541-002D, H14060541-003D, H14060541-004D, H14060541-005D, H14060541-006D, H14060541-007D, H14060541-008D, H14060541-009D, H14060541-010D, H14060541-011D, H14060541-012D, H14060541-013D, H14060541-014D, H14060541-015D, H14060541-016D, H14060541-017D, H14060541-018D, H14060541-019D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14060541
Project: CFR OU Monitoring

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140627A

Date: *23-Jul-14*

Run ID :Run Order: **ACCU-124 (14410200)_140627A: 1** SampType: **Method Blank** Lab ID: **MB-1_140627A** Method: **A2540 D**

Analysis Date: **06/27/14 11:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14060541-001F, H14060541-002F, H14060541-003F, H14060541-004F, H14060541-005F, H14060541-006F, H14060541-007F, H14060541-008F, H14060541-009F, H14060541-010A, H14060541-011F, H14060541-012F, H14060541-013F, H14060541-014F, H14060541-015F, H14060541-016F, H14060541-017F, H14060541-018F, H14060541-019F**

Run ID :Run Order: **ACCU-124 (14410200)_140627A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-2_140627A** Method: **A2540 D**

Analysis Date: **06/27/14 11:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	92.0	10	100		92	80	120				

Associated samples: **H14060541-001F, H14060541-002F, H14060541-003F, H14060541-004F, H14060541-005F, H14060541-006F, H14060541-007F, H14060541-008F, H14060541-009F, H14060541-010A, H14060541-011F, H14060541-012F, H14060541-013F, H14060541-014F, H14060541-015F, H14060541-016F, H14060541-017F, H14060541-018F, H14060541-019F**

Run ID :Run Order: **ACCU-124 (14410200)_140627A: 4** SampType: **Sample Duplicate** Lab ID: **H14060546-001A DUP** Method: **A2540 D**

Analysis Date: **06/27/14 11:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	10.0	10						12	18	5	R

Associated samples: **H14060541-001F, H14060541-002F, H14060541-003F, H14060541-004F, H14060541-005F, H14060541-006F, H14060541-007F, H14060541-008F, H14060541-009F, H14060541-010A, H14060541-011F, H14060541-012F, H14060541-013F, H14060541-014F, H14060541-015F, H14060541-016F, H14060541-017F, H14060541-018F, H14060541-019F**

Run ID :Run Order: **ACCU-124 (14410200)_140627A: 1** SampType: **Sample Duplicate** Lab ID: **H14060546-002A DUP** Method: **A2540 D**

Analysis Date: **06/27/14 11:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	32.0	10						32	0.0	5	

Associated samples: **H14060541-001F, H14060541-002F, H14060541-003F, H14060541-004F, H14060541-005F, H14060541-006F, H14060541-007F, H14060541-008F, H14060541-009F, H14060541-010A, H14060541-011F, H14060541-012F, H14060541-013F, H14060541-014F, H14060541-015F, H14060541-016F, H14060541-017F, H14060541-018F, H14060541-019F**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

BROOKS RAND LABS
MEANINGFUL METALS DATA®

July 22, 2014

Energy Laboratories, Inc.
ATTN: Jonathan Dee Hager
PO Box 5688
Helena MT 59604
jhager@energylab.com

RE: Project ENL-HL1201 Client Project: Silver Bow / Clark Fork

Dear Jonathan Dee Hager,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on June 30, 2014. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The samples were received in a cooler with wet ice and at a temperature of 16.0 °C. BRL requires samples for pre-preserved samples for MeHg analysis to be kept cool (≤ 12 ± 2 oC) during shipment. Therefore, all the sample results for MeHg were qualified **H** for temperature requirements not being met.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All additional data is reported without qualification and all other associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
H14060541-016G	1427004-01	Water	Sample	06/24/2014	06/30/2014
H14060541-017G	1427004-02	Water	Sample	06/24/2014	06/30/2014
H14060541-018G	1427004-03	Water	Sample	06/24/2014	06/30/2014
H14060541-019G	1427004-04	Water	Sample	06/24/2014	06/30/2014
Trip Blank	1427004-05	DIW	Trip Blank	06/30/2014	06/30/2014

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	07/08/2014	07/09/2014	B141168	1400599

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
H14060541-016G										
1427004-01	MeHg	Water	T	0.319	H	0.020	0.050	ng/L	B141168	1400599
H14060541-017G										
1427004-02	MeHg	Water	T	0.020	H, U	0.020	0.049	ng/L	B141168	1400599
H14060541-018G										
1427004-03	MeHg	Water	T	0.990	H	0.020	0.050	ng/L	B141168	1400599
H14060541-019G										
1427004-04	MeHg	Water	T	1.03	H	0.020	0.051	ng/L	B141168	1400599
Trip Blank										
1427004-05	MeHg	DIW	T	0.020	H, U	0.020	0.049	ng/L	B141168	1400599

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12946

Accuracy & Precision Summary

Batch: B141168
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B141168-BS1	**Laboratory Fortified Blank (1425037)**						
	MeHg		1.000	1.001	ng/L	100% 67-133	
B141168-MS1	**Matrix Spike (1427004-01)**						
	MeHg	0.319	2.300	2.442	ng/L	92% 65-135	
B141168-MSD1	**Matrix Spike Duplicate (1427004-01)**						
	MeHg	0.319	2.300	2.687	ng/L	103% 65-135	10% 35

Method Blanks & Reporting Limits

Batch: B141168
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B141168-BLK1	0.007	ng/L
B141168-BLK2	0.023	ng/L
B141168-BLK3	0.019	ng/L
B141168-BLK4	0.020	ng/L

Average: 0.017 **Standard Deviation:** 0.007 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12946

Sample Containers

Lab ID: 1427004-01 **Report Matrix:** Water **Collected:** 06/24/2014
Sample: H14060541-016G **Sample Type:** Sample **Received:** 06/30/2014
Comments: Qualify H

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	13-0293	2mL 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1427004-02 **Report Matrix:** Water **Collected:** 06/24/2014
Sample: H14060541-017G **Sample Type:** Sample **Received:** 06/30/2014
Comments: Qualify H

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	13-0293	2mL 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1427004-03 **Report Matrix:** Water **Collected:** 06/24/2014
Sample: H14060541-018G **Sample Type:** Sample **Received:** 06/30/2014
Comments: Qualify H

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	13-0293	2mL 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1427004-04 **Report Matrix:** Water **Collected:** 06/24/2014
Sample: H14060541-019G **Sample Type:** Sample **Received:** 06/30/2014
Comments: Qualify H

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	13-0293	2mL 6N HCl (PP)	1420031	<2	Cooler

Lab ID: 1427004-05 **Report Matrix:** DIW **Collected:** 06/30/2014
Sample: Trip Blank **Sample Type:** Trip Blank **Received:** 06/30/2014
Comments: Qualify H

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	13-0293	2mL 6N HCl (BRL)	1350060	<2	Cooler

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Shipping Containers

Cooler

Received: June 30, 2014 12:45
Tracking No: 1Z37EW970351003233 via UPS
Coolant Type: Ice
Temperature: 16.0 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

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Energy Laboratories Inc
3161 East Lyndale Avenue
Helena, MT 59601
(406) 442-0711

H14060541

1427004

CHAIN-OF-CUSTODY RECORD

BRL Report 1427004
Page 1 of 1
26-Jun-14

Custody Seal: Y N
Intacted: Y N
Signature Match: Y N

Shipped By: _____
Receipt Temp: 16.9°c

Subcontractor:
Brooks Rand Labs
3958 6th Ave NW
Seattle, WA 98106
TEL: (206) 632-6206 FAX: (206) 632-6017
Acct #:

Subcontractor's Client:

Rush	Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests: SUB-BROOKSRAND
☐	H14060541-016G	Aqueous	06/24/14 11:45 A	1-	1
☐	H14060541-017G	Aqueous	06/24/14 01:15 P	1-	1
☐	H14060541-018G	Aqueous	06/24/14 01:45 P	1-	1
☐	H14060541-019G	Aqueous	06/24/14 01:45 P	1-	1

Earliest Due Date: 7/11/2014

Comments: H12946

QC Level:
STD

		Date/Time		
Relinquished by:	[signature]		**Received by:**	[signature] 6/30/14 1245
Relinquished by:	[signature]	6/26/14 16:28	**Received by:**	

8 of 8

Workorder Receipt Checklist

MT DEQ-Federal Superfund H14060541

Login completed by: Tracy L. Lorash
Date Received: 6/26/2014
Reviewed by: BL2000\sdull
Received by: wjj
Reviewed Date: 7/15/2014
Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	°C See comments		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☑	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Sample ID on COC is LBR-CFR-02 -ID on all bottles except 1 liter is LBR-CFR. Logged in with ID from COC.
Sample ID on COC is SBR P2 -ID on bottles is SBR-P2. Logged in with ID from COC.
SS-25 500 mL raw bottle received preserved.
Cooler 1 was received at 2.0°C, Cooler 2 at 3.0°C, Cooler 3 at 1.6°C. Samples were received on wet ice. TI 6/26/14

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (RESPEC)

Project Name, PWS, Permit, Etc.: CFROK Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required):
erich.weber@respec.com
joe.naughton@respec.com
gary.ingman@respec.com
beguinones@mt.gov
☐ No Hard Copy Email:

Contact Name: Ben Quinones Phone/Fax: 406-841-5709
Erich Weber 406-1546 Cell: 439-0563

Sampler: (Please Print) J. Naughton, H. McAdams, E. Weber

Invoice Contact & Phone: Ben Quinones 406-841-5709

Purchase Order:

Quote/Bottle Order: H958/15129

Invoice Address (Required):
MT DEQ
P.O. Box 200901
Helena, MT 59620-0901
☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: all dissolved samples were field filtered

Shipped by: handdel
Cooler ID(s): Y
Receipt Temp: See comments °C
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N; Intact Y N; Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TRAs, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^{2-}, Cl^-	Hardness (TR Ca, Mg)	DOC		SEE ATTACHED		
C3	1 CFR-116A	6-24-2014	0900	GW	x	x	x	x	x	x	x	x				
C3	2 CSC	6-24-2014	1030	GW												Cooler 1 -2.0
C3	3 LBR-CFR-02	6-24-2014	1530	GW												Cooler 2 -3.0
C3	4 CFR-42G	6-24-2014	1700	GW												Cooler 3 -1.6
C1	5 CFR-27H	6-24-2014	1800	GW												
C1	6 CFR-11F	6-25-2014	0900	GW												
C1	7 CFR-07D	6-25-2014	1000	GW												
C1	8 CFR-03A	6-25-2014	1100	GW												
C1	9 WSC-SBC	6-25-2014	1200	GW												
C1	10 SS-25	6-25-2014	1245	SW												TSS, TPN & Common ions from 1L sample

LABORATORY USE ONLY: B H14060541

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 6-26-2014 11:30 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Wanda Date/Time: 6-26-14 1128 Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MTDEQ (RESTEC)	Project Name, PWS, Permit, Etc.: CFROM Monitoring	Sample Origin State: MT	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address (Required): See page 1 ☐ No Hard Copy Email:	Contact Name: See page 1 Phone/Fax:	Cell:	Sampler: (Please Print) See page 1
	Invoice Contact & Phone: See page 1	Purchase Order:	Quote/Bottle Order: H958/ 15129
Invoice Address (Required): See page 1 ☐ No Hard Copy Email:			

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: all dissolved samples were field filtered

Shipped by: hand del
Cooler ID(s): Y
Receipt Temp: see comment °C
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPH	NH_3, NO_{3+2}, TP	TSS	Tot Alk., SO_4^-, Cl^-	Hardness (TR Ca & Mg)	DOC	Total Hg (Full from TR metals)	SEE ATTACHED		
C1	1 MWB-SBC	6-25-2014	13:30	GW	X	X	X	X	X	X	X	X				
C1	2 SBC P2	6-25-2014	14:00	GW												
C1	3 Field Blank #2	6-25-2014	1500	GW												
C1	4 MCWC-MWB	6-25-2014	15:30	GW												
C1	5 MCWC-MWB Duplicate	6-25-2014	15:30	GW												
C3	6 CFR-84F	6-24-2014	11:45	GW									X			
C3	7 Field Blank #1	6-24-2014	1315	GW												
C3	8 FC-CFR	6-24-2014	1345	GW												
C3	9 FC-CFR Duplicate	6-24-2014	1345	GW												
	10															

Cooler 1 - 2.0
Cooler 2 - 3.0
Cooler 3 - 1.6

LABORATORY USE ONLY B H14060541

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Erich Weber	6-26-2014 11:30				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:

Sample Disposal: Return to Client: Lab Disposal:

Received by Laboratory: Wandy Jon Date/Time: 6-26-14 11:28 Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (RESPEC)	Project Name, PWS, Permit, Etc.: CFR OU Monitoring	Sample Origin State: MT	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address (Required): See page 1 ☐ No Hard Copy Email:	Contact Name: See page 1 Phone/Fax: Cell:		Sampler: (Please Print) See page 1
	Invoice Contact & Phone: See page 1	Purchase Order:	Quote/Bottle Order: H958/15129
Invoice Address (Required): See page 1 ☐ No Hard Copy Email:			

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	MeHg (B-R Labs)	SEE ATTACHED	Comments
1	CFR - 84F	6-24-2014	11:45	1W	X		cooler 1 - 2.0
2	Field Blank #1	6-24-2014	13:15	1W			cooler 2 - 3.0
3	FC-CFR	6-24-2014	13:45	1W			cooler 3 - 1.6
4	FC-CFR Duplicate	6-24-2014	13:45	1W			
5							
6							
7							
8							
9							
10							

Standard Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

LABORATORY USE ONLY

Shipped by: hand del
Cooler ID(s): 1
Receipt Temp: See Comments °C
On Ice: Y N
Custody Seal
On Bottle Y N
On Cooler Y N
Intact Y N
Signature Match Y N
JB H14060541

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Erich Weber	6-26-2014 11:30				

Received by Laboratory: Date/Time: 6-26-14 11 Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

APPENDIX B3

ANALYTICAL LABORATORY RESULTS
3RD QUARTER MONITORING

ANALYTICAL SUMMARY REPORT

October 24, 2014

MT DEQ-Federal Superfund
PO Box 200901
Helena, MT 59620-0901

Work Order: H14090349 Quote ID: H958

Project Name: CFR Monitoring-474374

Energy Laboratories Inc Helena MT received the following 32 samples for MT DEQ-Federal Superfund on 9/18/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H14090349-001	CFR-116A	09/16/14 9:00	09/18/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14090349-002	Field Blank #1	09/16/14 12:45	09/18/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Mercury, Total Recoverable Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Mercury by CVAA Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended Subcontracted, Analytics
H14090349-003	FC-CFR	09/16/14 13:00	09/18/14	Aqueous	Same As Above
H14090349-004	FC-CFR duplicate	09/16/14 13:00	09/18/14	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

H14090349-005	LBR-CFR-02	09/16/14 14:30	09/18/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14090349-006	CFR-27H	09/16/14 16:30	09/18/14	Aqueous	Same As Above
H14090349-007	CFR-11F	09/16/14 17:30	09/18/14	Aqueous	Same As Above
H14090349-008	CFR-07D	09/17/14 9:15	09/18/14	Aqueous	Same As Above
H14090349-009	CFR-03A	09/17/14 10:30	09/18/14	Aqueous	Same As Above
H14090349-010	WSC-SBC	09/17/14 11:15	09/18/14	Aqueous	Same As Above
H14090349-011	SS-25	09/17/14 12:30	09/18/14	Aqueous	Same As Above
H14090349-012	MWB-SBC	09/17/14 13:15	09/18/14	Aqueous	Same As Above
H14090349-013	Field Blank #2	09/17/14 14:15	09/18/14	Aqueous	Same As Above
H14090349-014	MCWC-MWB	09/17/14 14:45	09/18/14	Aqueous	Same As Above
H14090349-015	MCWC-MWB duplicate	09/17/14 14:45	09/18/14	Aqueous	Same As Above
H14090349-016	CFR-84F	09/16/14 11:30	09/18/14	Aqueous	Mercury, Total Recoverable Digestion, Mercury by CVAA Subcontracted, Analytics
H14090349-017	Trip Blank	09/16/14 9:00	09/18/14	Aqueous	Subcontracted, Analytics
H14090349-018	CFR-116A Sediment Sieve <0.065mm	09/16/14 9:00	09/18/14	Sediment	Metals by ICP/ICPMS, Total Percent Moisture Digestion, Total Metals Sieves Soil Preparation
H14090349-019	FC-CFR Sediment Sieve <0.065mm	09/16/14 13:00	09/18/14	Sediment	Metals by ICP/ICPMS, Total Percent Moisture Digestion, Total Metals Sieves
H14090349-020	FC-CFR duplicate Sediment Sieve <0.065mm	09/16/14 13:00	09/18/14	Sediment	Same As Above
H14090349-021	LBR-CFR-02 Sediment Sieve <0.065mm	09/16/14 14:30	09/18/14	Sediment	Same As Above
H14090349-022	CFR-27H Sediment Sieve <0.065mm	09/16/14 16:30	09/18/14	Sediment	Same As Above
H14090349-023	CFR-11F Sediment Sieve <0.065mm	09/16/14 17:30	09/18/14	Sediment	Same As Above
H14090349-024	CFR-07D Sediment Sieve <0.065mm	09/17/14 9:15	09/18/14	Sediment	Same As Above
H14090349-025	CFR-03A Sediment Sieve <0.065mm	09/17/14 10:30	09/18/14	Sediment	Same As Above

ANALYTICAL SUMMARY REPORT

H14090349-026	WSC-SBC Sediment Sieve <0.065mm	09/17/14 11:15	09/18/14	Sediment	Same As Above
H14090349-027	SS-25 Sediment Sieve <0.065mm	09/17/14 12:30	09/18/14	Sediment	Same As Above
H14090349-028	MWB-SBC Sediment Sieve <0.065mm	09/17/14 13:15	09/18/14	Sediment	Same As Above
H14090349-029	MCWC-MWB Sediment Sieve <0.065mm	09/17/14 14:45	09/18/14	Sediment	Same As Above
H14090349-030	MCWC-MWB duplicate Sediment Sieve <0.065mm	09/17/14 14:45	09/18/14	Sediment	Same As Above
H14090349-031	LC-7.5 Sediment Sieve <0.065mm	09/17/14 16:00	09/18/14	Sediment	Same As Above
H14090349-032	RTC-1.5 Sediment Sieve <0.065mm	09/17/14 16:45	09/18/14	Sediment	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Work Order: H14090349

Report Date: 10/28/14

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Sample FC-CFR and FC-CFR Duplicate the Total Persulfate Nitrogen result was confirmed by duplicate analysis. Abb 10/28/14

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14090349-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 09:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	09/19/14 11:31 / SR		-124 (14410200)_140919B	8	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	09/22/14 11:49 / SR		PHSC_101-H_140922A	37	R100747
Bicarbonate as HCO3	160	mg/L		4		A2320 B	09/22/14 11:49 / SR		PHSC_101-H_140922A	37	R100747
Chloride	4	mg/L		1		E300.0	09/19/14 12:30 / SR		IC102-H_140919A	21	R100741
Sulfate	43	mg/L		1		E300.0	09/19/14 12:30 / SR		IC102-H_140919A	21	R100741
Hardness as CaCO3	171	mg/L		1		A2340 B	09/24/14 17:32 / sld		WATERCALC_140924A	2	R100845
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.1	mg/L		0.5		A5310 C	09/23/14 15:58 / eli-c		SUB-C191469	4	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 10:56 / cm		FIA203-HE_140929B	19	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:46 / cm		FIA203-HE_140922B	32	R100767
Nitrogen, Total	0.10	mg/L		0.05		A4500 N-C	09/24/14 11:25 / cm	09/23/14 07:47	FIA203-HE_140924A	72	26265
Phosphorus, Total as P	0.017	mg/L		0.005		E365.1	09/23/14 10:43 / cm	09/22/14 16:43	FIA202-HE_140923B	27	26261
METALS, DISSOLVED											
Arsenic	0.007	mg/L		0.001		E200.8	09/24/14 00:23 / dck		ICPMS204-B_140923B	35	R100819
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 00:23 / dck		ICPMS204-B_140923B	35	R100819
Copper	0.003	mg/L		0.001		E200.8	09/24/14 00:23 / dck		ICPMS204-B_140923B	35	R100819
Lead	ND	mg/L		0.0003		E200.8	09/24/14 00:23 / dck		ICPMS204-B_140923B	35	R100819
Zinc	ND	mg/L		0.008		E200.8	09/24/14 00:23 / dck		ICPMS204-B_140923B	35	R100819
METALS, TOTAL RECOVERABLE											
Arsenic	0.008	mg/L		0.001		E200.8	09/24/14 00:41 / dck	09/22/14 09:15	ICPMS204-B_140923B	39	26241
Cadmium	0.00006	mg/L		0.00003		E200.8	09/24/14 00:41 / dck	09/22/14 09:15	ICPMS204-B_140923B	39	26241
Calcium	48	mg/L		1		E200.7	09/23/14 11:46 / sld	09/22/14 09:15	ICP2-HE_140923A	34	26241
Copper	0.007	mg/L		0.001		E200.8	09/24/14 00:41 / dck	09/22/14 09:15	ICPMS204-B_140923B	39	26241
Lead	0.0008	mg/L		0.0003		E200.8	09/24/14 00:41 / dck	09/22/14 09:15	ICPMS204-B_140923B	39	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14090349-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 09:00 **DateReceived:** 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	13	mg/L		1		E200.7	09/23/14 11:46 / sld	09/22/14 09:15	ICP2-HE_140923A	34	26241
Zinc	0.011	mg/L		0.008		E200.8	09/24/14 00:41 / dck	09/22/14 09:15	ICPMS204-B_140923B	39	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14090349-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 12:45
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	09/19/14 11:31 / SR		-124 (14410200)_140919B	9	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	09/22/14 11:54 / SR		PHSC_101-H_140922A	39	R100747
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	09/22/14 11:54 / SR		PHSC_101-H_140922A	39	R100747
Chloride	ND	mg/L		1		E300.0	09/19/14 12:41 / SR		IC102-H_140919A	22	R100741
Sulfate	ND	mg/L		1		E300.0	09/19/14 12:41 / SR		IC102-H_140919A	22	R100741
Hardness as CaCO3	ND	mg/L		1		A2340 B	09/24/14 17:32 / sld		WATERCALC_140924A	3	R100845
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	ND	mg/L		0.5		A5310 C	09/23/14 16:46 / eli-c		SUB-C191469	7	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:00 / cm		FIA203-HE_140929B	22	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:47 / cm		FIA203-HE_140922B	33	R100767
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	09/24/14 11:26 / cm	09/23/14 07:47	FIA203-HE_140924A	73	26265
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	09/23/14 10:46 / cm	09/22/14 16:43	FIA202-HE_140923B	30	26261
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	09/24/14 00:45 / dck		ICPMS204-B_140923B	40	R100819
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 00:45 / dck		ICPMS204-B_140923B	40	R100819
Copper	ND	mg/L		0.001		E200.8	09/24/14 00:45 / dck		ICPMS204-B_140923B	40	R100819
Lead	ND	mg/L		0.0003		E200.8	09/24/14 00:45 / dck		ICPMS204-B_140923B	40	R100819
Zinc	0.014	mg/L		0.008		E200.8	09/24/14 00:45 / dck		ICPMS204-B_140923B	40	R100819
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	09/24/14 00:50 / dck	09/22/14 09:15	ICPMS204-B_140923B	41	26241
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 00:50 / dck	09/22/14 09:15	ICPMS204-B_140923B	41	26241
Calcium	ND	mg/L		1		E200.7	09/23/14 11:50 / sld	09/22/14 09:15	ICP2-HE_140923A	35	26241
Copper	ND	mg/L		0.001		E200.8	09/24/14 00:50 / dck	09/22/14 09:15	ICPMS204-B_140923B	41	26241
Lead	ND	mg/L		0.0003		E200.8	09/24/14 00:50 / dck	09/22/14 09:15	ICPMS204-B_140923B	41	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14090349-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 12:45
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	09/23/14 11:50 / sld	09/22/14 09:15	ICP2-HE_140923A	35	26241
Mercury	ND	mg/L		5E-06		E245.1	09/25/14 11:57 / rgk	09/24/14 12:42	HGCV202-H_140925A	12	26305
Zinc	ND	mg/L		0.008		E200.8	09/24/14 00:50 / dck	09/22/14 09:15	ICPMS204-B_140923B	41	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14090349-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 13:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	4	mg/L		1		A2540 D	09/19/14 11:31 / SR		I24 (14410200)_140919B	10	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	190	mg/L		4		A2320 B	09/22/14 12:00 / SR		PHSC_101-H_140922A	41	R100747
Bicarbonate as HCO3	220	mg/L		4		A2320 B	09/22/14 12:00 / SR		PHSC_101-H_140922A	41	R100747
Chloride	4	mg/L		1		E300.0	09/19/14 12:52 / SR		IC102-H_140919A	23	R100741
Sulfate	19	mg/L		1		E300.0	09/19/14 12:52 / SR		IC102-H_140919A	23	R100741
Hardness as CaCO3	195	mg/L		1		A2340 B	09/24/14 17:32 / sld		WATERCALC_140924A	4	R100845
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.9	mg/L		0.5		A5310 C	09/23/14 17:05 / eli-c		SUB-C191469	8	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:01 / cm		FIA203-HE_140929B	23	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:50 / cm		FIA203-HE_140922B	36	R100767
Nitrogen, Total	0.28	mg/L		0.05		A4500 N-C	09/24/14 11:30 / cm	09/23/14 07:47	FIA203-HE_140924A	76	26265
Phosphorus, Total as P	0.046	mg/L		0.005		E365.1	09/23/14 10:47 / cm	09/22/14 16:43	FIA202-HE_140923B	31	26261
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	09/24/14 00:54 / dck		ICPMS204-B_140923B	42	R100819
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 00:54 / dck		ICPMS204-B_140923B	42	R100819
Copper	ND	mg/L		0.001		E200.8	09/24/14 00:54 / dck		ICPMS204-B_140923B	42	R100819
Lead	ND	mg/L		0.0003		E200.8	09/24/14 00:54 / dck		ICPMS204-B_140923B	42	R100819
Zinc	ND	mg/L		0.008		E200.8	09/24/14 00:54 / dck		ICPMS204-B_140923B	42	R100819
METALS, TOTAL RECOVERABLE											
Arsenic	0.008	mg/L		0.001		E200.8	09/24/14 00:58 / dck	09/22/14 09:15	ICPMS204-B_140923B	43	26241
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 00:58 / dck	09/22/14 09:15	ICPMS204-B_140923B	43	26241
Calcium	52	mg/L		1		E200.7	09/23/14 11:54 / sld	09/22/14 09:15	ICP2-HE_140923A	36	26241
Copper	0.002	mg/L		0.001		E200.8	09/24/14 00:58 / dck	09/22/14 09:15	ICPMS204-B_140923B	43	26241
Lead	0.0009	mg/L		0.0003		E200.8	09/24/14 00:58 / dck	09/22/14 09:15	ICPMS204-B_140923B	43	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14090349-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 13:00 **DateReceived:** 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	16	mg/L		1		E200.7	09/23/14 11:54 / sld	09/22/14 09:15	ICP2-HE_140923A	36	26241
Mercury	0.000058	mg/L		5E-06		E245.1	09/25/14 12:01 / rgk	09/24/14 12:42	HGCV202-H_140925A	13	26305
Zinc	ND	mg/L		0.008		E200.8	09/24/14 00:58 / dck	09/22/14 09:15	ICPMS204-B_140923B	43	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR duplicate
Lab ID: H14090349-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 13:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	5	mg/L		1		A2540 D	09/19/14 11:32 / SR		I24 (14410200)_140919B	11	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	190	mg/L		4		A2320 B	09/22/14 12:07 / SR		PHSC_101-H_140922A	43	R100747
Bicarbonate as HCO3	220	mg/L		4		A2320 B	09/22/14 12:07 / SR		PHSC_101-H_140922A	43	R100747
Chloride	4	mg/L		1		E300.0	09/19/14 13:03 / SR		IC102-H_140919A	24	R100741
Sulfate	19	mg/L		1		E300.0	09/19/14 13:03 / SR		IC102-H_140919A	24	R100741
Hardness as CaCO3	192	mg/L		1		A2340 B	09/24/14 17:32 / sld		WATERCALC_140924A	5	R100845
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.9	mg/L		0.5		A5310 C	09/23/14 17:22 / eli-c		SUB-C191469	9	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:02 / cm		FIA203-HE_140929B	24	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:51 / cm		FIA203-HE_140922B	37	R100767
Nitrogen, Total	0.08	mg/L		0.05		A4500 N-C	09/24/14 11:31 / cm	09/23/14 07:47	FIA203-HE_140924A	77	26265
Phosphorus, Total as P	0.046	mg/L		0.005		E365.1	09/23/14 10:48 / cm	09/22/14 16:43	FIA202-HE_140923B	32	26261
METALS, DISSOLVED											
Arsenic	0.008	mg/L		0.001		E200.8	09/24/14 01:03 / dck		ICPMS204-B_140923B	44	R100819
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 01:03 / dck		ICPMS204-B_140923B	44	R100819
Copper	ND	mg/L		0.001		E200.8	09/24/14 01:03 / dck		ICPMS204-B_140923B	44	R100819
Lead	ND	mg/L		0.0003		E200.8	09/24/14 01:03 / dck		ICPMS204-B_140923B	44	R100819
Zinc	ND	mg/L		0.008		E200.8	09/24/14 01:03 / dck		ICPMS204-B_140923B	44	R100819
METALS, TOTAL RECOVERABLE											
Arsenic	0.008	mg/L		0.001		E200.8	09/24/14 01:07 / dck	09/22/14 09:15	ICPMS204-B_140923B	45	26241
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 01:07 / dck	09/22/14 09:15	ICPMS204-B_140923B	45	26241
Calcium	51	mg/L		1		E200.7	09/23/14 11:57 / sld	09/22/14 09:15	ICP2-HE_140923A	37	26241
Copper	0.002	mg/L		0.001		E200.8	09/24/14 01:07 / dck	09/22/14 09:15	ICPMS204-B_140923B	45	26241
Lead	0.0009	mg/L		0.0003		E200.8	09/24/14 01:07 / dck	09/22/14 09:15	ICPMS204-B_140923B	45	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR duplicate
Lab ID: H14090349-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 13:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	16	mg/L		1		E200.7	09/23/14 11:57 / sld	09/22/14 09:15	ICP2-HE_140923A	37	26241
Mercury	0.000038	mg/L		5E-06		E245.1	09/25/14 12:06 / rgk	09/24/14 12:42	HGCV202-H_140925A	14	26305
Zinc	ND	mg/L		0.008		E200.8	09/24/14 01:07 / dck	09/22/14 09:15	ICPMS204-B_140923B	45	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14090349-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 14:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	1	mg/L		1		A2540 D	09/19/14 11:32 / SR		I24 (14410200)_140919B	12	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	09/22/14 12:14 / SR		PHSC_101-H_140922A	45	R100747
Bicarbonate as HCO3	150	mg/L		4		A2320 B	09/22/14 12:14 / SR		PHSC_101-H_140922A	45	R100747
Chloride	2	mg/L		1		E300.0	09/19/14 13:14 / SR		IC102-H_140919A	25	R100741
Sulfate	10	mg/L		1		E300.0	09/19/14 13:14 / SR		IC102-H_140919A	25	R100741
Hardness as CaCO3	128	mg/L		1		A2340 B	09/23/14 12:01 / abb		CALC_140929B	58	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.0	mg/L		0.5		A5310 C	09/23/14 17:36 / eli-c		SUB-C191469	10	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:03 / cm		FIA203-HE_140929B	25	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:53 / cm		FIA203-HE_140922B	38	R100767
Nitrogen, Total	0.08	mg/L		0.05		A4500 N-C	09/24/14 11:32 / cm	09/23/14 07:47	FIA203-HE_140924A	78	26265
Phosphorus, Total as P	0.019	mg/L		0.005		E365.1	09/23/14 10:49 / cm	09/22/14 16:43	FIA202-HE_140923B	33	26261
METALS, DISSOLVED											
Arsenic	0.005	mg/L		0.001		E200.8	09/24/14 23:00 / dck		ICPMS204-B_140924A	66	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 23:00 / dck		ICPMS204-B_140924A	66	R100883
Copper	ND	mg/L		0.001		E200.8	09/24/14 23:00 / dck		ICPMS204-B_140924A	66	R100883
Lead	ND	mg/L		0.0003		E200.8	09/24/14 23:00 / dck		ICPMS204-B_140924A	66	R100883
Zinc	ND	mg/L		0.008		E200.8	09/24/14 23:00 / dck		ICPMS204-B_140924A	66	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.005	mg/L		0.001		E200.8	09/24/14 23:04 / dck	09/22/14 09:15	ICPMS204-B_140924A	67	26241
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 23:04 / dck	09/22/14 09:15	ICPMS204-B_140924A	67	26241
Calcium	37	mg/L		1		E200.7	09/23/14 12:01 / sld	09/22/14 09:15	ICP2-HE_140923A	38	26241
Copper	ND	mg/L		0.001		E200.8	09/24/14 23:04 / dck	09/22/14 09:15	ICPMS204-B_140924A	67	26241
Lead	ND	mg/L		0.0003		E200.8	09/24/14 23:04 / dck	09/22/14 09:15	ICPMS204-B_140924A	67	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14090349-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 14:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	09/23/14 12:01 / sld	09/22/14 09:15	ICP2-HE_140923A	38	26241
Zinc	ND	mg/L		0.008		E200.8	09/24/14 23:04 / dck	09/22/14 09:15	ICPMS204-B_140924A	67	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14090349-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 16:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	09/19/14 11:32 / SR		I24 (14410200)_140919B	13	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	09/22/14 12:20 / SR		PHSC_101-H_140922A	47	R100747
Bicarbonate as HCO3	140	mg/L		4		A2320 B	09/22/14 12:20 / SR		PHSC_101-H_140922A	47	R100747
Chloride	8	mg/L		1		E300.0	09/19/14 13:25 / SR		IC102-H_140919A	26	R100741
Sulfate	63	mg/L		1		E300.0	09/19/14 13:25 / SR		IC102-H_140919A	26	R100741
Hardness as CaCO3	188	mg/L		1		A2340 B	09/23/14 12:05 / abb		CALC_140929B	69	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.3	mg/L		0.5		A5310 C	09/23/14 17:52 / eli-c		SUB-C191469	11	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:04 / cm		FIA203-HE_140929B	26	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:54 / cm		FIA203-HE_140922B	39	R100767
Nitrogen, Total	0.32	mg/L		0.05		A4500 N-C	09/24/14 11:33 / cm	09/23/14 07:47	FIA203-HE_140924A	79	26265
Phosphorus, Total as P	0.028	mg/L		0.005		E365.1	09/23/14 10:50 / cm	09/22/14 16:43	FIA202-HE_140923B	34	26261
METALS, DISSOLVED											
Arsenic	0.018	mg/L		0.001		E200.8	09/24/14 23:09 / dck		ICPMS204-B_140924A	68	R100883
Cadmium	0.00003	mg/L		0.00003		E200.8	09/24/14 23:09 / dck		ICPMS204-B_140924A	68	R100883
Copper	0.007	mg/L		0.001		E200.8	09/24/14 23:09 / dck		ICPMS204-B_140924A	68	R100883
Lead	ND	mg/L		0.0003		E200.8	09/24/14 23:09 / dck		ICPMS204-B_140924A	68	R100883
Zinc	ND	mg/L		0.008		E200.8	09/24/14 23:09 / dck		ICPMS204-B_140924A	68	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	09/24/14 23:13 / dck	09/22/14 09:15	ICPMS204-B_140924A	69	26241
Cadmium	0.00009	mg/L		0.00003		E200.8	09/24/14 23:13 / dck	09/22/14 09:15	ICPMS204-B_140924A	69	26241
Calcium	54	mg/L		1		E200.7	09/23/14 12:05 / sld	09/22/14 09:15	ICP2-HE_140923A	39	26241
Copper	0.019	mg/L		0.001		E200.8	09/24/14 23:13 / dck	09/22/14 09:15	ICPMS204-B_140924A	69	26241
Lead	0.0018	mg/L		0.0003		E200.8	09/24/14 23:13 / dck	09/22/14 09:15	ICPMS204-B_140924A	69	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14090349-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 16:30 **DateReceived:** 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	13	mg/L		1		E200.7	09/23/14 12:05 / sld	09/22/14 09:15	ICP2-HE_140923A	39	26241
Zinc	0.015	mg/L		0.008		E200.8	09/24/14 23:13 / dck	09/22/14 09:15	ICPMS204-B_140924A	69	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14090349-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 17:30 **DateReceived:** 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	09/19/14 11:33 / SR		I24 (14410200)_140919B	16	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	09/22/14 12:26 / SR		PHSC_101-H_140922A	49	R100747
Bicarbonate as HCO3	120	mg/L		4		A2320 B	09/22/14 12:26 / SR		PHSC_101-H_140922A	49	R100747
Chloride	9	mg/L		1		E300.0	09/19/14 13:36 / SR		IC102-H_140919A	27	R100741
Sulfate	79	mg/L		1		E300.0	09/19/14 13:36 / SR		IC102-H_140919A	27	R100741
Hardness as CaCO3	204	mg/L		1		A2340 B	09/23/14 12:09 / abb		CALC_140929B	80	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.7	mg/L		0.5		A5310 C	09/23/14 18:09 / eli-c		SUB-C191469	12	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:05 / cm		FIA203-HE_140929B	27	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:55 / cm		FIA203-HE_140922B	40	R100767
Nitrogen, Total	0.25	mg/L		0.05		A4500 N-C	09/24/14 11:34 / cm	09/23/14 07:47	FIA203-HE_140924A	80	26265
Phosphorus, Total as P	0.037	mg/L		0.005		E365.1	09/23/14 10:51 / cm	09/22/14 16:43	FIA202-HE_140923B	35	26261
METALS, DISSOLVED											
Arsenic	0.021	mg/L		0.001		E200.8	09/24/14 23:17 / dck		ICPMS204-B_140924A	70	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/24/14 23:17 / dck		ICPMS204-B_140924A	70	R100883
Copper	0.005	mg/L		0.001		E200.8	09/24/14 23:17 / dck		ICPMS204-B_140924A	70	R100883
Lead	ND	mg/L		0.0003		E200.8	09/24/14 23:17 / dck		ICPMS204-B_140924A	70	R100883
Zinc	ND	mg/L		0.008		E200.8	09/24/14 23:17 / dck		ICPMS204-B_140924A	70	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	09/24/14 23:35 / dck	09/22/14 09:15	ICPMS204-B_140924A	74	26241
Cadmium	0.00005	mg/L		0.00003		E200.8	09/24/14 23:35 / dck	09/22/14 09:15	ICPMS204-B_140924A	74	26241
Calcium	58	mg/L		1		E200.7	09/23/14 12:09 / sld	09/22/14 09:15	ICP2-HE_140923A	40	26241
Copper	0.008	mg/L		0.001		E200.8	09/24/14 23:35 / dck	09/22/14 09:15	ICPMS204-B_140924A	74	26241
Lead	0.0005	mg/L		0.0003		E200.8	09/24/14 23:35 / dck	09/22/14 09:15	ICPMS204-B_140924A	74	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14090349-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 17:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	15	mg/L		1		E200.7	09/23/14 12:09 / sld	09/22/14 09:15	ICP2-HE_140923A	40	26241
Zinc	ND	mg/L		0.008		E200.8	09/24/14 23:35 / dck	09/22/14 09:15	ICPMS204-B_140924A	74	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14090349-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 09:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	09/19/14 11:34 / SR		I24 (14410200)_140919B	17	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		4		A2320 B	09/22/14 12:32 / SR		PHSC_101-H_140922A	51	R100747
Bicarbonate as HCO3	140	mg/L		4		A2320 B	09/22/14 12:32 / SR		PHSC_101-H_140922A	51	R100747
Chloride	9	mg/L		1		E300.0	09/19/14 13:48 / SR		IC102-H_140919A	28	R100741
Sulfate	78	mg/L		1		E300.0	09/19/14 13:48 / SR		IC102-H_140919A	28	R100741
Hardness as CaCO3	194	mg/L		1		A2340 B	09/23/14 12:31 / abb		CALC_140929B	91	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.8	mg/L		0.5		A5310 C	09/23/14 18:25 / eli-c		SUB-C191469	13	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:09 / cm		FIA203-HE_140929B	30	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 11:59 / cm		FIA203-HE_140922B	43	R100767
Nitrogen, Total	0.17	mg/L		0.05		A4500 N-C	09/24/14 11:36 / cm	09/23/14 07:47	FIA203-HE_140924A	81	26265
Phosphorus, Total as P	0.035	mg/L		0.005		E365.1	09/23/14 10:52 / cm	09/22/14 16:43	FIA202-HE_140923B	36	26261
METALS, DISSOLVED											
Arsenic	0.020	mg/L		0.001		E200.8	09/24/14 23:57 / dck		ICPMS204-B_140924A	79	R100883
Cadmium	0.00003	mg/L		0.00003		E200.8	09/24/14 23:57 / dck		ICPMS204-B_140924A	79	R100883
Copper	0.005	mg/L		0.001		E200.8	09/24/14 23:57 / dck		ICPMS204-B_140924A	79	R100883
Lead	ND	mg/L		0.0003		E200.8	09/24/14 23:57 / dck		ICPMS204-B_140924A	79	R100883
Zinc	ND	mg/L		0.008		E200.8	09/24/14 23:57 / dck		ICPMS204-B_140924A	79	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	09/25/14 00:01 / dck	09/22/14 09:15	ICPMS204-B_140924A	80	26241
Cadmium	0.00005	mg/L		0.00003		E200.8	09/25/14 00:01 / dck	09/22/14 09:15	ICPMS204-B_140924A	80	26241
Calcium	55	mg/L		1		E200.7	09/23/14 12:31 / sld	09/22/14 09:15	ICP2-HE_140923A	46	26241
Copper	0.007	mg/L		0.001		E200.8	09/25/14 00:01 / dck	09/22/14 09:15	ICPMS204-B_140924A	80	26241
Lead	0.0005	mg/L		0.0003		E200.8	09/25/14 00:01 / dck	09/22/14 09:15	ICPMS204-B_140924A	80	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14090349-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 09:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	14	mg/L		1		E200.7	09/23/14 12:31 / sld	09/22/14 09:15	ICP2-HE_140923A	46	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:01 / dck	09/22/14 09:15	ICPMS204-B_140924A	80	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14090349-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 10:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	1	mg/L		1		A2540 D	09/19/14 11:34 / SR		I24 (14410200)_140919B	18	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	110	mg/L		4		A2320 B	09/22/14 12:39 / SR		PHSC_101-H_140922A	53	R100747
Bicarbonate as HCO3	110	mg/L		4		A2320 B	09/22/14 12:39 / SR		PHSC_101-H_140922A	53	R100747
Chloride	10	mg/L		1		E300.0	09/19/14 14:21 / SR		IC102-H_140919A	31	R100741
Sulfate	69	mg/L		1		E300.0	09/19/14 14:21 / SR		IC102-H_140919A	31	R100741
Hardness as CaCO3	172	mg/L		1		A2340 B	09/23/14 12:35 / abb		CALC_140929B	102	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.9	mg/L		0.5		A5310 C	09/23/14 18:40 / eli-c		SUB-C191469	14	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:10 / cm		FIA203-HE_140929B	31	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:02 / cm		FIA203-HE_140922B	46	R100767
Nitrogen, Total	0.22	mg/L		0.05		A4500 N-C	09/24/14 11:39 / cm	09/23/14 07:47	FIA203-HE_140924A	84	26265
Phosphorus, Total as P	0.044	mg/L		0.005		E365.1	09/23/14 10:54 / cm	09/22/14 16:43	FIA202-HE_140923B	37	26261
METALS, DISSOLVED											
Arsenic	0.021	mg/L		0.001		E200.8	09/25/14 00:05 / dck		ICPMS204-B_140924A	81	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 00:05 / dck		ICPMS204-B_140924A	81	R100883
Copper	0.004	mg/L		0.001		E200.8	09/25/14 00:05 / dck		ICPMS204-B_140924A	81	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 00:05 / dck		ICPMS204-B_140924A	81	R100883
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:05 / dck		ICPMS204-B_140924A	81	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	09/25/14 00:10 / dck	09/22/14 09:15	ICPMS204-B_140924A	82	26241
Cadmium	0.00004	mg/L		0.00003		E200.8	09/25/14 00:10 / dck	09/22/14 09:15	ICPMS204-B_140924A	82	26241
Calcium	49	mg/L		1		E200.7	09/23/14 12:35 / sld	09/22/14 09:15	ICP2-HE_140923A	47	26241
Copper	0.005	mg/L		0.001		E200.8	09/25/14 00:10 / dck	09/22/14 09:15	ICPMS204-B_140924A	82	26241
Lead	0.0003	mg/L		0.0003		E200.8	09/25/14 00:10 / dck	09/22/14 09:15	ICPMS204-B_140924A	82	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14090349-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 10:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	12	mg/L		1		E200.7	09/23/14 12:35 / sld	09/22/14 09:15	ICP2-HE_140923A	47	26241
Zinc	ND	mg/L		0.008		E200.8	09/27/14 00:51 / dck	09/22/14 09:15	ICPMS204-B_140926B	31	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14090349-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 11:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	09/19/14 11:34 / SR		I24 (14410200)_140919B	19	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	09/22/14 12:45 / SR		PHSC_101-H_140922A	55	R100747
Bicarbonate as HCO3	160	mg/L		4		A2320 B	09/22/14 12:45 / SR		PHSC_101-H_140922A	55	R100747
Chloride	1	mg/L		1		E300.0	09/19/14 14:54 / SR		IC102-H_140919A	34	R100741
Sulfate	38	mg/L		1		E300.0	09/19/14 14:54 / SR		IC102-H_140919A	34	R100741
Hardness as CaCO3	178	mg/L		1		A2340 B	09/23/14 12:39 / abb		CALC_140929B	113	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.5	mg/L		0.5		A5310 C	09/23/14 18:56 / eli-c		SUB-C191469	15	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:11 / cm		FIA203-HE_140929B	32	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:03 / cm		FIA203-HE_140922B	47	R100767
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	09/24/14 11:43 / cm	09/23/14 07:47	FIA203-HE_140924A	87	26265
Phosphorus, Total as P	0.008	mg/L		0.005		E365.1	09/23/14 10:55 / cm	09/22/14 16:43	FIA202-HE_140923B	38	26261
METALS, DISSOLVED											
Arsenic	0.007	mg/L		0.001		E200.8	09/25/14 00:14 / dck		ICPMS204-B_140924A	83	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 00:14 / dck		ICPMS204-B_140924A	83	R100883
Copper	0.003	mg/L		0.001		E200.8	09/25/14 00:14 / dck		ICPMS204-B_140924A	83	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 00:14 / dck		ICPMS204-B_140924A	83	R100883
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:14 / dck		ICPMS204-B_140924A	83	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.008	mg/L		0.001		E200.8	09/25/14 00:19 / dck	09/22/14 09:15	ICPMS204-B_140924A	84	26241
Cadmium	0.00004	mg/L		0.00003		E200.8	09/25/14 00:19 / dck	09/22/14 09:15	ICPMS204-B_140924A	84	26241
Calcium	53	mg/L		1		E200.7	09/23/14 12:39 / sld	09/22/14 09:15	ICP2-HE_140923A	48	26241
Copper	0.006	mg/L		0.001		E200.8	09/25/14 00:19 / dck	09/22/14 09:15	ICPMS204-B_140924A	84	26241
Lead	ND	mg/L		0.0003		E200.8	09/25/14 00:19 / dck	09/22/14 09:15	ICPMS204-B_140924A	84	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14090349-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 11:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	11	mg/L		1		E200.7	09/23/14 12:39 / sld	09/22/14 09:15	ICP2-HE_140923A	48	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:19 / dck	09/22/14 09:15	ICPMS204-B_140924A	84	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14090349-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 12:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	1	mg/L		1		A2540 D	09/19/14 11:35 / SR		I24 (14410200)_140919B	20	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	89	mg/L		4		A2320 B	09/22/14 12:50 / SR		PHSC_101-H_140922A	57	R100747
Bicarbonate as HCO3	68	mg/L		4		A2320 B	09/22/14 12:50 / SR		PHSC_101-H_140922A	57	R100747
Chloride	14	mg/L		1		E300.0	09/19/14 15:05 / SR		IC102-H_140919A	35	R100741
Sulfate	83	mg/L		1		E300.0	09/19/14 15:05 / SR		IC102-H_140919A	35	R100741
Hardness as CaCO3	165	mg/L		1		A2340 B	09/23/14 12:42 / abb		CALC_140929B	124	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	4.9	mg/L		0.5		A5310 C	09/23/14 19:52 / eli-c		SUB-C191469	17	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:13 / cm		FIA203-HE_140929B	33	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:05 / cm		FIA203-HE_140922B	48	R100767
Nitrogen, Total	0.27	mg/L		0.05		A4500 N-C	09/24/14 11:44 / cm	09/23/14 07:47	FIA203-HE_140924A	88	26265
Phosphorus, Total as P	0.067	mg/L		0.005		E365.1	09/23/14 11:00 / cm	09/22/14 16:45	FIA202-HE_140923B	43	26262
METALS, DISSOLVED											
Arsenic	0.028	mg/L		0.001		E200.8	09/25/14 00:37 / dck		ICPMS204-B_140924A	88	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 00:37 / dck		ICPMS204-B_140924A	88	R100883
Copper	0.003	mg/L		0.001		E200.8	09/25/14 00:37 / dck		ICPMS204-B_140924A	88	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 00:37 / dck		ICPMS204-B_140924A	88	R100883
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:37 / dck		ICPMS204-B_140924A	88	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.029	mg/L		0.001		E200.8	09/25/14 00:54 / dck	09/22/14 09:15	ICPMS204-B_140924A	92	26241
Cadmium	ND	mg/L	D	0.00004		E200.8	09/25/14 00:54 / dck	09/22/14 09:15	ICPMS204-B_140924A	92	26241
Calcium	46	mg/L		1		E200.7	09/23/14 12:42 / sld	09/22/14 09:15	ICP2-HE_140923A	49	26241
Copper	0.004	mg/L		0.001		E200.8	09/25/14 00:54 / dck	09/22/14 09:15	ICPMS204-B_140924A	92	26241
Lead	0.0004	mg/L		0.0003		E200.8	09/25/14 00:54 / dck	09/22/14 09:15	ICPMS204-B_140924A	92	26241

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14090349-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 12:30 **DateReceived:** 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	12	mg/L		1		E200.7	09/23/14 12:42 / sld	09/22/14 09:15	ICP2-HE_140923A	49	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:54 / dck	09/22/14 09:15	ICPMS204-B_140924A	92	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14090349-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 13:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	09/19/14 11:35 / SR		I24 (14410200)_140919B	21	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	99	mg/L		4		A2320 B	09/22/14 12:56 / SR		PHSC_101-H_140922A	59	R100747
Bicarbonate as HCO3	110	mg/L		4		A2320 B	09/22/14 12:56 / SR		PHSC_101-H_140922A	59	R100747
Chloride	4	mg/L		1		E300.0	09/19/14 15:16 / SR		IC102-H_140919A	36	R100741
Sulfate	100	mg/L		1		E300.0	09/19/14 15:16 / SR		IC102-H_140919A	36	R100741
Hardness as CaCO3	200	mg/L		1		A2340 B	09/23/14 12:46 / abb		CALC_140929B	135	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.2	mg/L		0.5		A5310 C	09/23/14 20:43 / eli-c		SUB-C191469	20	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:14 / cm		FIA203-HE_140929B	34	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:06 / cm		FIA203-HE_140922B	49	R100767
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	09/24/14 11:45 / cm	09/23/14 07:47	FIA203-HE_140924A	89	26265
Phosphorus, Total as P	0.014	mg/L		0.005		E365.1	09/23/14 11:01 / cm	09/22/14 16:45	FIA202-HE_140923B	44	26262
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	09/25/14 00:59 / dck		ICPMS204-B_140924A	93	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 00:59 / dck		ICPMS204-B_140924A	93	R100883
Copper	0.002	mg/L		0.001		E200.8	09/25/14 00:59 / dck		ICPMS204-B_140924A	93	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 00:59 / dck		ICPMS204-B_140924A	93	R100883
Zinc	ND	mg/L		0.008		E200.8	09/25/14 00:59 / dck		ICPMS204-B_140924A	93	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.021	mg/L		0.001		E200.8	09/25/14 01:03 / dck	09/22/14 09:15	ICPMS204-B_140924A	94	26241
Cadmium	0.00004	mg/L		0.00003		E200.8	09/25/14 01:03 / dck	09/22/14 09:15	ICPMS204-B_140924A	94	26241
Calcium	58	mg/L		1		E200.7	09/23/14 12:46 / sld	09/22/14 09:15	ICP2-HE_140923A	50	26241
Copper	0.003	mg/L		0.001		E200.8	09/25/14 01:03 / dck	09/22/14 09:15	ICPMS204-B_140924A	94	26241
Lead	0.0004	mg/L		0.0003		E200.8	09/25/14 01:03 / dck	09/22/14 09:15	ICPMS204-B_140924A	94	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14090349-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 13:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	14	mg/L		1		E200.7	09/23/14 12:46 / sld	09/22/14 09:15	ICP2-HE_140923A	50	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 01:03 / dck	09/22/14 09:15	ICPMS204-B_140924A	94	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14090349-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	09/19/14 11:35 / SR		I24 (14410200)_140919B	22	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	09/22/14 13:02 / SR		PHSC_101-H_140922A	61	R100747
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	09/22/14 13:02 / SR		PHSC_101-H_140922A	61	R100747
Chloride	ND	mg/L		1		E300.0	09/19/14 15:28 / SR		IC102-H_140919A	37	R100741
Sulfate	ND	mg/L		1		E300.0	09/19/14 15:28 / SR		IC102-H_140919A	37	R100741
Hardness as CaCO3	ND	mg/L		1		A2340 B	09/30/14 07:56 / sld		WATERCALC_140930A	1	R100959
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	ND	mg/L		0.5		A5310 C	09/23/14 20:59 / eli-c		SUB-C191469	21	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:15 / cm		FIA203-HE_140929B	35	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:07 / cm		FIA203-HE_140922B	50	R100767
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	09/24/14 11:46 / cm	09/23/14 07:47	FIA203-HE_140924A	90	26265
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	09/23/14 11:02 / cm	09/22/14 16:45	FIA202-HE_140923B	45	26262
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	09/25/14 01:07 / dck		ICPMS204-B_140924A	95	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 01:07 / dck		ICPMS204-B_140924A	95	R100883
Copper	ND	mg/L		0.001		E200.8	09/25/14 01:07 / dck		ICPMS204-B_140924A	95	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 01:07 / dck		ICPMS204-B_140924A	95	R100883
Zinc	0.012	mg/L		0.008		E200.8	09/25/14 01:07 / dck		ICPMS204-B_140924A	95	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	09/25/14 01:12 / dck	09/22/14 09:15	ICPMS204-B_140924A	96	26241
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 01:12 / dck	09/22/14 09:15	ICPMS204-B_140924A	96	26241
Calcium	ND	mg/L		1		E200.7	09/23/14 12:50 / sld	09/22/14 09:15	ICP2-HE_140923A	51	26241
Copper	ND	mg/L		0.001		E200.8	09/25/14 01:12 / dck	09/22/14 09:15	ICPMS204-B_140924A	96	26241
Lead	ND	mg/L		0.0003		E200.8	09/25/14 01:12 / dck	09/22/14 09:15	ICPMS204-B_140924A	96	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14090349-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	09/23/14 12:50 / sld	09/22/14 09:15	ICP2-HE_140923A	51	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 01:12 / dck	09/22/14 09:15	ICPMS204-B_140924A	96	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14090349-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:45
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	09/19/14 11:36 / SR		I24 (14410200)_140919B	23	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	83	mg/L		4		A2320 B	09/22/14 13:06 / SR		PHSC_101-H_140922A	63	R100747
Bicarbonate as HCO3	100	mg/L		4		A2320 B	09/22/14 13:06 / SR		PHSC_101-H_140922A	63	R100747
Chloride	1	mg/L		1		E300.0	09/19/14 15:39 / SR		IC102-H_140919A	38	R100741
Sulfate	15	mg/L		1		E300.0	09/19/14 15:39 / SR		IC102-H_140919A	38	R100741
Hardness as CaCO3	94	mg/L		1		A2340 B	09/23/14 12:54 / abb		CALC_140929B	157	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.9	mg/L		0.5		A5310 C	09/23/14 21:18 / eli-c		SUB-C191469	22	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:16 / cm		FIA203-HE_140929B	36	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:08 / cm		FIA203-HE_140922B	51	R100767
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	09/24/14 11:48 / cm	09/23/14 07:47	FIA203-HE_140924A	91	26265
Phosphorus, Total as P	0.018	mg/L		0.005		E365.1	09/23/14 11:03 / cm	09/22/14 16:45	FIA202-HE_140923B	46	26262
METALS, DISSOLVED											
Arsenic	0.019	mg/L		0.001		E200.8	09/25/14 01:16 / dck		ICPMS204-B_140924A	97	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 01:16 / dck		ICPMS204-B_140924A	97	R100883
Copper	0.002	mg/L		0.001		E200.8	09/25/14 01:16 / dck		ICPMS204-B_140924A	97	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 01:16 / dck		ICPMS204-B_140924A	97	R100883
Zinc	ND	mg/L		0.008		E200.8	09/25/14 01:16 / dck		ICPMS204-B_140924A	97	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	09/25/14 01:21 / dck	09/22/14 09:15	ICPMS204-B_140924A	98	26241
Cadmium	0.00004	mg/L		0.00003		E200.8	09/25/14 01:21 / dck	09/22/14 09:15	ICPMS204-B_140924A	98	26241
Calcium	26	mg/L		1		E200.7	09/23/14 12:54 / sld	09/22/14 09:15	ICP2-HE_140923A	52	26241
Copper	0.004	mg/L		0.001		E200.8	09/25/14 01:21 / dck	09/22/14 09:15	ICPMS204-B_140924A	98	26241
Lead	0.0008	mg/L		0.0003		E200.8	09/25/14 01:21 / dck	09/22/14 09:15	ICPMS204-B_140924A	98	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14090349-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:45
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	09/23/14 12:54 / sld	09/22/14 09:15	ICP2-HE_140923A	52	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 01:21 / dck	09/22/14 09:15	ICPMS204-B_140924A	98	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB duplicate
Lab ID: H14090349-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:45 **DateReceived:** 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	09/19/14 11:36 / SR		I24 (14410200)_140919B	24	TSS140919A
INORGANICS											
Alkalinity, Total as CaCO3	84	mg/L		4		A2320 B	09/22/14 13:11 / SR		PHSC_101-H_140922A	65	R100747
Bicarbonate as HCO3	100	mg/L		4		A2320 B	09/22/14 13:11 / SR		PHSC_101-H_140922A	65	R100747
Chloride	1	mg/L		1		E300.0	09/19/14 15:50 / SR		IC102-H_140919A	39	R100741
Sulfate	15	mg/L		1		E300.0	09/19/14 15:50 / SR		IC102-H_140919A	39	R100741
Hardness as CaCO3	93	mg/L		1		A2340 B	09/23/14 12:58 / abb		CALC_140929B	168	R100951
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.8	mg/L		0.5		A5310 C	09/23/14 21:34 / eli-c		SUB-C191469	23	C_R191469
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	09/29/14 11:17 / cm		FIA203-HE_140929B	37	R100946
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	09/22/14 12:09 / cm		FIA203-HE_140922B	52	R100767
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	09/24/14 11:49 / cm	09/23/14 07:47	FIA203-HE_140924A	92	26265
Phosphorus, Total as P	0.017	mg/L		0.005		E365.1	09/23/14 11:04 / cm	09/22/14 16:45	FIA202-HE_140923B	47	26262
METALS, DISSOLVED											
Arsenic	0.018	mg/L		0.001		E200.8	09/25/14 01:39 / dck		ICPMS204-B_140924A	102	R100883
Cadmium	ND	mg/L		0.00003		E200.8	09/25/14 01:39 / dck		ICPMS204-B_140924A	102	R100883
Copper	0.002	mg/L		0.001		E200.8	09/25/14 01:39 / dck		ICPMS204-B_140924A	102	R100883
Lead	ND	mg/L		0.0003		E200.8	09/25/14 01:39 / dck		ICPMS204-B_140924A	102	R100883
Zinc	ND	mg/L		0.008		E200.8	09/25/14 01:39 / dck		ICPMS204-B_140924A	102	R100883
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	09/25/14 01:43 / dck	09/22/14 09:15	ICPMS204-B_140924A	103	26241
Cadmium	0.00005	mg/L		0.00003		E200.8	09/25/14 01:43 / dck	09/22/14 09:15	ICPMS204-B_140924A	103	26241
Calcium	26	mg/L		1		E200.7	09/23/14 12:58 / sld	09/22/14 09:15	ICP2-HE_140923A	53	26241
Copper	0.003	mg/L		0.001		E200.8	09/25/14 01:43 / dck	09/22/14 09:15	ICPMS204-B_140924A	103	26241
Lead	0.0008	mg/L		0.0003		E200.8	09/25/14 01:43 / dck	09/22/14 09:15	ICPMS204-B_140924A	103	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB duplicate
Lab ID: H14090349-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:45
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	7	mg/L		1		E200.7	09/23/14 12:58 / sld	09/22/14 09:15	ICP2-HE_140923A	53	26241
Zinc	ND	mg/L		0.008		E200.8	09/25/14 01:43 / dck	09/22/14 09:15	ICPMS204-B_140924A	103	26241

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14090349-016
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 09/16/14 11:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Mercury	0.000020	mg/L		5E-06		E245.1	09/25/14 12:10 / rgk	09/24/14 12:42	HGCV202-H_140925A	: 15	26305

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A Sediment Sieve <0.065mm
Lab ID: H14090349-018
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/16/14 09:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	26.7	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	1	R101298
PHYSICAL CHARACTERISTICS											
Moisture	67.9	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	21	R101349
3050 EXTRACTABLE METALS											
Arsenic	13	mg/kg		1		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	27	26481
Cadmium	1.3	mg/kg		0.2		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	27	26481
Copper	179	mg/kg		5		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	27	26481
Lead	39	mg/kg		5		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	27	26481
Zinc	299	mg/kg		5		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	27	26481
METAL, DRY WEIGHT											
Arsenic	39	mg/kg-dry		1		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	81	26481
Cadmium	3.9	mg/kg-dry		0.4		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	81	26481
Copper	557	mg/kg-dry		5		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	81	26481
Lead	120	mg/kg-dry		5		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	81	26481
Zinc	933	mg/kg-dry		10		SW6020	10/10/14 12:33 / dck	10/08/14 16:18	ICPMS204-B_141010A	81	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Sediment Sieve <0.065mm
Lab ID: H14090349-019
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/16/14 13:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	34.0	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	2	R101298
PHYSICAL CHARACTERISTICS											
Moisture	72.6	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	22	R101349
3050 EXTRACTABLE METALS											
Arsenic	32	mg/kg		1		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	28	26481
Cadmium	0.7	mg/kg		0.2		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	28	26481
Copper	24	mg/kg		5		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	28	26481
Lead	73	mg/kg		5		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	28	26481
Zinc	215	mg/kg		5		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	28	26481
METAL, DRY WEIGHT											
Arsenic	116	mg/kg-dry		1		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	82	26481
Cadmium	2.7	mg/kg-dry		0.5		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	82	26481
Copper	87	mg/kg-dry		5		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	82	26481
Lead	266	mg/kg-dry		5		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	82	26481
Zinc	785	mg/kg-dry		10		SW6020	10/10/14 12:38 / dck	10/08/14 16:18	ICPMS204-B_141010A	82	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Client Sample ID: FC-CFR duplicate Sediment Sieve <0.065mm
Collection Date: 09/16/14 13:00
DateReceived: 09/18/14
Lab ID: H14090349-020
Report Date: 10/24/14
Matrix: Sediment

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	30.2	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	3	R101298
PHYSICAL CHARACTERISTICS											
Moisture	74.4	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	24	R101349
3050 EXTRACTABLE METALS											
Arsenic	29	mg/kg		1		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	29	26481
Cadmium	0.7	mg/kg		0.2		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	29	26481
Copper	22	mg/kg		5		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	29	26481
Lead	67	mg/kg		5		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	29	26481
Zinc	197	mg/kg		5		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	29	26481
METAL, DRY WEIGHT											
Arsenic	112	mg/kg-dry		1		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	83	26481
Cadmium	2.6	mg/kg-dry		0.5		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	83	26481
Copper	87	mg/kg-dry		5		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	83	26481
Lead	262	mg/kg-dry		5		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	83	26481
Zinc	770	mg/kg-dry		10		SW6020	10/10/14 12:42 / dck	10/08/14 16:18	ICPMS204-B_141010A	83	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Client Sample ID: LBR-CFR-02 Sediment Sieve <0.065mm
Collection Date: 09/16/14 14:30
DateReceived: 09/18/14
Lab ID: H14090349-021
Report Date: 10/24/14
Matrix: Sediment

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	2.4	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	4	R101298
PHYSICAL CHARACTERISTICS											
Moisture	64.9	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	25	R101349
3050 EXTRACTABLE METALS											
Arsenic	10	mg/kg		1		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	30	26481
Cadmium	0.7	mg/kg		0.2		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	30	26481
Copper	17	mg/kg		5		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	30	26481
Lead	26	mg/kg		5		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	30	26481
Zinc	75	mg/kg		5		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	30	26481
METAL, DRY WEIGHT											
Arsenic	29	mg/kg-dry		1		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	84	26481
Cadmium	2.0	mg/kg-dry		0.4		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	84	26481
Copper	47	mg/kg-dry		5		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	84	26481
Lead	74	mg/kg-dry		5		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	84	26481
Zinc	213	mg/kg-dry		10		SW6020	10/10/14 12:46 / dck	10/08/14 16:18	ICPMS204-B_141010A	84	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H Sediment Sieve <0.065mm
Lab ID: H14090349-022
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/16/14 16:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	1.2	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	5	R101298
PHYSICAL CHARACTERISTICS											
Moisture	47.5	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	26	R101349
3050 EXTRACTABLE METALS											
Arsenic	53	mg/kg		1		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	31	26481
Cadmium	3.8	mg/kg		0.2		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	31	26481
Copper	692	mg/kg		5		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	31	26481
Lead	102	mg/kg		5		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	31	26481
Zinc	596	mg/kg		5		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	31	26481
METAL, DRY WEIGHT											
Arsenic	101	mg/kg-dry		1		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	85	26481
Cadmium	7.2	mg/kg-dry		0.3		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	85	26481
Copper	1320	mg/kg-dry		5		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	85	26481
Lead	194	mg/kg-dry		5		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	85	26481
Zinc	1140	mg/kg-dry		7		SW6020	10/10/14 12:51 / dck	10/08/14 16:18	ICPMS204-B_141010A	85	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F Sediment Sieve <0.065mm
Lab ID: H14090349-023
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/16/14 17:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	7.7	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	6	R101298
PHYSICAL CHARACTERISTICS											
Moisture	46.9	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	27	R101349
3050 EXTRACTABLE METALS											
Arsenic	80	mg/kg		1		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	35	26481
Cadmium	2.3	mg/kg		0.2		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	35	26481
Copper	650	mg/kg		5		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	35	26481
Lead	115	mg/kg		5		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	35	26481
Zinc	511	mg/kg		5		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	35	26481
METAL, DRY WEIGHT											
Arsenic	151	mg/kg-dry		1		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	86	26481
Cadmium	4.4	mg/kg-dry		0.3		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	86	26481
Copper	1220	mg/kg-dry		5		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	86	26481
Lead	216	mg/kg-dry		5		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	86	26481
Zinc	963	mg/kg-dry		7		SW6020	10/10/14 13:08 / dck	10/08/14 16:18	ICPMS204-B_141010A	86	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D Sediment Sieve <0.065mm
Lab ID: H14090349-024
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 09:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	3.5	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	7	R101298
PHYSICAL CHARACTERISTICS											
Moisture	53.9	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	28	R101349
3050 EXTRACTABLE METALS											
Arsenic	89	mg/kg		1		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	36	26481
Cadmium	3.0	mg/kg		0.2		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	36	26481
Copper	873	mg/kg		5		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	36	26481
Lead	118	mg/kg		5		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	36	26481
Zinc	659	mg/kg		5		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	36	26481
METAL, DRY WEIGHT											
Arsenic	192	mg/kg-dry		1		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	87	26481
Cadmium	6.5	mg/kg-dry		0.3		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	87	26481
Copper	1890	mg/kg-dry		5		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	87	26481
Lead	255	mg/kg-dry		5		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	87	26481
Zinc	1430	mg/kg-dry		8		SW6020	10/10/14 13:13 / dck	10/08/14 16:18	ICPMS204-B_141010A	87	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A Sediment Sieve <0.065mm
Lab ID: H14090349-025
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 10:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	6.9	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	8	R101298
PHYSICAL CHARACTERISTICS											
Moisture	66.5	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	29	R101349
3050 EXTRACTABLE METALS											
Arsenic	64	mg/kg		1		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	37	26481
Cadmium	3.1	mg/kg		0.2		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	37	26481
Copper	660	mg/kg		5		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	37	26481
Lead	95	mg/kg		5		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	37	26481
Zinc	530	mg/kg		5		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	37	26481
METAL, DRY WEIGHT											
Arsenic	192	mg/kg-dry		1		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	88	26481
Cadmium	9.1	mg/kg-dry		0.5		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	88	26481
Copper	1970	mg/kg-dry		5		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	88	26481
Lead	283	mg/kg-dry		5		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	88	26481
Zinc	1580	mg/kg-dry		10		SW6020	10/10/14 13:17 / dck	10/08/14 16:18	ICPMS204-B_141010A	88	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC Sediment Sieve <0.065mm
Lab ID: H14090349-026
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 11:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	22.8	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	9	R101298
PHYSICAL CHARACTERISTICS											
Moisture	69.3	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	30	R101349
3050 EXTRACTABLE METALS											
Arsenic	32	mg/kg		1		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	38	26481
Cadmium	1.4	mg/kg		0.2		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	38	26481
Copper	341	mg/kg		5		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	38	26481
Lead	41	mg/kg		5		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	38	26481
Zinc	169	mg/kg		5		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	38	26481
METAL, DRY WEIGHT											
Arsenic	105	mg/kg-dry		1		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	89	26481
Cadmium	4.7	mg/kg-dry		0.4		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	89	26481
Copper	1110	mg/kg-dry		5		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	89	26481
Lead	133	mg/kg-dry		5		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	89	26481
Zinc	550	mg/kg-dry		10		SW6020	10/10/14 13:21 / dck	10/08/14 16:18	ICPMS204-B_141010A	89	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25 Sediment Sieve <0.065mm
Lab ID: H14090349-027
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 12:30
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	1.2	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	10	R101298
PHYSICAL CHARACTERISTICS											
Moisture	62.1	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	31	R101349
3050 EXTRACTABLE METALS											
Arsenic	45	mg/kg		1		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	39	26481
Cadmium	3.0	mg/kg		0.2		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	39	26481
Copper	283	mg/kg		5		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	39	26481
Lead	126	mg/kg		5		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	39	26481
Zinc	976	mg/kg		5		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	39	26481
METAL, DRY WEIGHT											
Arsenic	119	mg/kg-dry		1		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	90	26481
Cadmium	7.9	mg/kg-dry		0.3		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	90	26481
Copper	748	mg/kg-dry		5		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	90	26481
Lead	332	mg/kg-dry		5		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	90	26481
Zinc	2580	mg/kg-dry		9		SW6020	10/10/14 13:26 / dck	10/08/14 16:18	ICPMS204-B_141010A	90	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC Sediment Sieve <0.065mm
Lab ID: H14090349-028
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 13:15
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	1.8	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	11	R101298
PHYSICAL CHARACTERISTICS											
Moisture	69.2	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	32	R101349
3050 EXTRACTABLE METALS											
Arsenic	64	mg/kg		1		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	40	26481
Cadmium	2.5	mg/kg		0.2		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	40	26481
Copper	92	mg/kg		5		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	40	26481
Lead	47	mg/kg		5		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	40	26481
Zinc	309	mg/kg		5		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	40	26481
METAL, DRY WEIGHT											
Arsenic	209	mg/kg-dry		1		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	91	26481
Cadmium	8.1	mg/kg-dry		0.4		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	91	26481
Copper	300	mg/kg-dry		5		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	91	26481
Lead	153	mg/kg-dry		5		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	91	26481
Zinc	1000	mg/kg-dry		10		SW6020	10/10/14 13:30 / dck	10/08/14 16:18	ICPMS204-B_141010A	91	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Sediment Sieve <0.065mm
Lab ID: H14090349-029
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 14:45
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	3.5	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	12	R101298
PHYSICAL CHARACTERISTICS											
Moisture	70.9	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	34	R101349
3050 EXTRACTABLE METALS											
Arsenic	41	mg/kg		1		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	41	26481
Cadmium	2.8	mg/kg		0.2		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	41	26481
Copper	118	mg/kg		5		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	41	26481
Lead	59	mg/kg		5		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	41	26481
Zinc	186	mg/kg		5		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	41	26481
METAL, DRY WEIGHT											
Arsenic	141	mg/kg-dry		1		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	92	26481
Cadmium	9.6	mg/kg-dry		0.5		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	92	26481
Copper	405	mg/kg-dry		5		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	92	26481
Lead	204	mg/kg-dry		5		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	92	26481
Zinc	640	mg/kg-dry		10		SW6020	10/10/14 13:35 / dck	10/08/14 16:18	ICPMS204-B_141010A	92	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Client Sample ID: MCWC-MWB duplicate Sediment Sieve <0.065mm
Collection Date: 09/17/14 14:45
DateReceived: 09/18/14
Lab ID: H14090349-030
Report Date: 10/24/14
Matrix: Sediment

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	3.7	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	13	R101298
PHYSICAL CHARACTERISTICS											
Moisture	70.0	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	35	R101349
3050 EXTRACTABLE METALS											
Arsenic	35	mg/kg		1		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	42	26481
Cadmium	2.5	mg/kg		0.2		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	42	26481
Copper	113	mg/kg		5		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	42	26481
Lead	57	mg/kg		5		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	42	26481
Zinc	188	mg/kg		5		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	42	26481
METAL, DRY WEIGHT											
Arsenic	118	mg/kg-dry		1		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	93	26481
Cadmium	8.5	mg/kg-dry		0.4		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	93	26481
Copper	377	mg/kg-dry		5		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	93	26481
Lead	189	mg/kg-dry		5		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	93	26481
Zinc	625	mg/kg-dry		10		SW6020	10/10/14 13:39 / dck	10/08/14 16:18	ICPMS204-B_141010A	93	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LC-7.5 Sediment Sieve <0.065mm
Lab ID: H14090349-031
Matrix: Sediment

Project: CFR Monitoring-474374
Collection Date: 09/17/14 16:00
DateReceived: 09/18/14
Report Date: 10/24/14

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	3.0	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	14	R101298
PHYSICAL CHARACTERISTICS											
Moisture	60.4	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	36	R101349
3050 EXTRACTABLE METALS											
Arsenic	36	mg/kg		1		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	43	26481
Cadmium	1.0	mg/kg		0.2		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	43	26481
Copper	118	mg/kg		5		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	43	26481
Lead	59	mg/kg		5		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	43	26481
Zinc	149	mg/kg		5		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	43	26481
METAL, DRY WEIGHT											
Arsenic	91	mg/kg-dry		1		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	94	26481
Cadmium	2.5	mg/kg-dry		0.3		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	94	26481
Copper	298	mg/kg-dry		5		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	94	26481
Lead	149	mg/kg-dry		5		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	94	26481
Zinc	375	mg/kg-dry		9		SW6020	10/10/14 13:43 / dck	10/08/14 16:18	ICPMS204-B_141010A	94	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Client Sample ID: RTC-1.5 Sediment Sieve <0.065mm
Collection Date: 09/17/14 16:45
DateReceived: 09/18/14
Lab ID: H14090349-032
Report Date: 10/24/14
Matrix: Sediment

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL CHARACTERISTICS											
No. 230 Sieve	1.1	wt% Passed		0.1		ASA15-2	10/08/14 13:09 / edp		MISC SOILS_141008A	15	R101298
PHYSICAL CHARACTERISTICS											
Moisture	64.1	wt%		0.2		D2974	10/13/14 13:57 / edp		RYING OVEN 2_141010A	37	R101349
3050 EXTRACTABLE METALS											
Arsenic	11	mg/kg		1		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	48	26481
Cadmium	0.7	mg/kg		0.2		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	48	26481
Copper	39	mg/kg		5		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	48	26481
Lead	68	mg/kg		5		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	48	26481
Zinc	72	mg/kg		5		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	48	26481
METAL, DRY WEIGHT											
Arsenic	30	mg/kg-dry		1		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	95	26481
Cadmium	1.9	mg/kg-dry		0.4		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	95	26481
Copper	108	mg/kg-dry		5		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	95	26481
Lead	189	mg/kg-dry		5		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	95	26481
Zinc	201	mg/kg-dry		10		SW6020	10/10/14 14:01 / dck	10/08/14 16:18	ICPMS204-B_141010A	95	26481

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140925wa

Date: *24-Oct-14*

Run ID :Run Order: **HGCV202-H_140925A: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **09/25/14 11:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00021	0.00010	0.0002	0	104	90	110				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 2** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **09/25/14 11:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	100	95	105				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 36** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **09/25/14 14:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	102	90	110				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 140925wa

Date: *24-Oct-14*

Run ID :Run Order: **HGCV202-H_140925A: 1** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **09/25/14 11:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00021	0.00010	0.0002	0	104	90	110				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 2** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **09/25/14 11:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	100	95	105				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 36** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **09/25/14 14:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	102	90	110				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26241

Date: *24-Oct-14*

Run ID :Run Order: **ICP2-HE_140923A: 26** SampType: **Method Blank** Lab ID: **MB-26241** Method: **E200.7**
Analysis Date: **09/23/14 11:16** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.04	0.03									
Magnesium	ND	0.03									

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 27** SampType: **Laboratory Control Sample** Lab ID: **LCS-26241** Method: **E200.7**
Analysis Date: **09/23/14 11:20** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.6	1.0	25	0.04461	102	85	115				
Magnesium	26.8	1.0	25	0	107	85	115				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 30** SampType: **Sample Matrix Spike** Lab ID: **H14090187-002BMS3** Method: **E200.7**
Analysis Date: **09/23/14 11:31** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	31.6	1.0	25	6.665	100	70	130				
Magnesium	28.0	1.0	25	1.914	104	70	130				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 33** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090187-002BMSD3** Method: **E200.7**
Analysis Date: **09/23/14 11:42** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	31.6	1.0	25	6.665	100	70	130	31.62	0.0	20	
Magnesium	28.3	1.0	25	1.914	106	70	130	27.96	1.2	20	

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 41** SampType: **Serial Dilution** Lab ID: **H14090349-007CDIL** Method: **E200.7**
Analysis Date: **09/23/14 12:13** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	59.0	1.0		0		0	0	57.68	2.2	10	
Magnesium	14.6	1.0		0		0	0	14.53	0.8	10	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26241

Date: *24-Oct-14*

Run ID :Run Order: **ICP2-HE_140923A: 41** SampType: **Serial Dilution** Lab ID: **H14090349-007CDIL** Method: **E200.7**

Analysis Date: **09/23/14 12:13** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 42** SampType: **Sample Matrix Spike** Lab ID: **H14090349-007CMS3** Method: **E200.7**

Analysis Date: **09/23/14 12:16** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	82.0	1.0	25	57.68	97	70	130				
Magnesium	40.3	1.0	25	14.53	103	70	130				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 45** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-007CMSD3** Method: **E200.7**

Analysis Date: **09/23/14 12:27** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	81.5	1.0	25	57.68	95	70	130	81.96	0.6	20	
Magnesium	40.2	1.0	25	14.53	103	70	130	40.33	0.3	20	

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26241

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 20** SampType: **Method Blank** Lab ID: **MB-26241** Method: **E200.8**
Analysis Date: **09/23/14 23:18** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	8E-05	6E-05									
Cadmium	ND	3E-05									
Calcium	ND	0.02									
Copper	ND	0.0003									
Lead	ND	3E-05									
Magnesium	ND	0.002									
Zinc	0.002	0.001									

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140923B: 21** SampType: **Laboratory Control Sample** Lab ID: **LCS-26241** Method: **E200.8**
Analysis Date: **09/23/14 23:22** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.517	0.0010	0.5	0.0000817	103	85	115				
Cadmium	0.246	0.0010	0.25	0	98	85	115				
Calcium	25.5	1.0	25	0	102	85	115				
Copper	0.523	0.0050	0.5	0	105	85	115				
Lead	0.488	0.0010	0.5	0	98	85	115				
Magnesium	25.5	1.0	25	0	102	85	115				
Zinc	0.511	0.010	0.5	0.001766	102	85	115				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140923B: 26** SampType: **Sample Matrix Spike** Lab ID: **H14090187-002BMS3** Method: **E200.8**
Analysis Date: **09/23/14 23:44** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.504	0.0010	0.5	0	101	70	130				
Cadmium	0.239	0.0010	0.25	0	96	70	130				
Calcium	30.6	1.0	25	0	122	70	130				
Copper	0.520	0.0050	0.5	0	104	70	130				
Lead	0.486	0.0010	0.5	0	97	70	130				
Magnesium	26.7	1.0	25	0	107	70	130				
Zinc	0.492	0.010	0.5	0	98	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26241

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 26** SampType: **Sample Matrix Spike** Lab ID: **H14090187-002BMS3** Method: **E200.8**
Analysis Date: **09/23/14 23:44** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140923B: 27** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090187-002BMSD3** Method: **E200.8**
Analysis Date: **09/23/14 23:48** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.502	0.0010	0.5	0	100	70	130	0.5036	0.3	20	
Cadmium	0.240	0.0010	0.25	0	96	70	130	0.2394	0.1	20	
Calcium	30.8	1.0	25	0	123	70	130	30.6	0.6	20	
Copper	0.511	0.0050	0.5	0	102	70	130	0.5204	1.8	20	
Lead	0.484	0.0010	0.5	0	97	70	130	0.4864	0.5	20	
Magnesium	26.5	1.0	25	0	106	70	130	26.68	0.8	20	
Zinc	0.486	0.010	0.5	0	97	70	130	0.4921	1.2	20	

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140923B: 55** SampType: **Sample Matrix Spike** Lab ID: **H14090349-007CMS3** Method: **E200.8**
Analysis Date: **09/24/14 01:52** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.533	0.0010	0.5	0.02231	102	70	130				
Cadmium	0.236	0.0010	0.25	0.0000441	95	70	130				
Calcium	74.1	1.0	25	51.52	90	70	130				
Copper	0.525	0.0050	0.5	0.008638	103	70	130				
Lead	0.488	0.0010	0.5	0.0004597	98	70	130				
Magnesium	38.9	1.0	25	13.95	100	70	130				
Zinc	0.489	0.010	0.5	0.005024	97	70	130				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140923B: 56** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-007CMSD3** Method: **E200.8**
Analysis Date: **09/24/14 01:55** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.537	0.0010	0.5	0.02231	103	70	130	0.5331	0.7	20	
Cadmium	0.233	0.0010	0.25	0.0000441	93	70	130	0.2363	1.5	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26241

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 56** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-007CMSD3** Method: **E200.8**

Analysis Date: **09/24/14 01:55** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	74.5	1.0	25	51.52	92	70	130	74.06	0.6	20	
Copper	0.524	0.0050	0.5	0.008638	103	70	130	0.5255	0.2	20	
Lead	0.477	0.0010	0.5	0.0004597	95	70	130	0.4883	2.4	20	
Magnesium	39.0	1.0	25	13.95	100	70	130	38.94	0.1	20	
Zinc	0.494	0.010	0.5	0.005024	98	70	130	0.4888	1.0	20	

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 65** SampType: **Method Blank** Lab ID: **MB-26241** Method: **E200.8**

Analysis Date: **09/24/14 22:55** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0002	6E-05									
Cadmium	ND	3E-05									
Calcium	ND	0.02									
Copper	ND	0.0003									
Lead	ND	3E-05									
Magnesium	ND	0.002									
Zinc	0.002	0.001									

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 75** SampType: **Sample Matrix Spike** Lab ID: **H14090349-007CMS3** Method: **E200.8**

Analysis Date: **09/24/14 23:40** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.513	0.0010	0.5	0.02125	98	70	130				
Cadmium	0.254	0.0010	0.25	0.0000462	102	70	130				
Calcium	73.9	1.0	25	49.94	96	70	130				
Copper	0.486	0.0050	0.5	0.0079	96	70	130				
Lead	0.493	0.0010	0.5	0.0004779	99	70	130				
Magnesium	38.2	1.0	25	13.61	98	70	130				
Zinc	0.478	0.010	0.5	0.004946	95	70	130				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26241

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140924A: 76** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-007CMSD3** Method: **E200.8**

Analysis Date: **09/24/14 23:44** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.513	0.0010	0.5	0.02125	**98**	70	130	0.5133	**0.1**	20	
Cadmium	0.253	0.0010	0.25	0.0000462	**101**	70	130	0.2542	**0.6**	20	
Calcium	73.0	1.0	25	49.94	**92**	70	130	73.93	**1.3**	20	
Copper	0.492	0.0050	0.5	0.0079	**97**	70	130	0.4865	**1.0**	20	
Lead	0.491	0.0010	0.5	0.0004779	**98**	70	130	0.4935	**0.6**	20	
Magnesium	38.1	1.0	25	13.61	**98**	70	130	38.18	**0.3**	20	
Zinc	0.480	0.010	0.5	0.004946	**95**	70	130	0.4783	**0.3**	20	

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140926B: 30** SampType: **Method Blank** Lab ID: **MB-26241** Method: **E200.8**

Analysis Date: **09/27/14 00:46** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0002	6E-05									
Cadmium	0.0001	3E-05									
Calcium	ND	0.02									
Copper	0.001	0.0003									
Lead	ND	3E-05									
Magnesium	0.006	0.002									
Zinc	0.002	0.001									

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26261

Date: *24-Oct-14*

Run ID :Run Order: **FIA202-HE_140923B: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-26261** Method: **E365.1**
Analysis Date: **09/23/14 10:27** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.370	0.010	0.4	0	93	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D**

Run ID :Run Order: **FIA202-HE_140923B: 12** SampType: **Method Blank** Lab ID: **MB-26261** Method: **E365.1**
Analysis Date: **09/23/14 10:28** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D**

Run ID :Run Order: **FIA202-HE_140923B: 28** SampType: **Sample Matrix Spike** Lab ID: **H14090349-001Dms** Method: **E365.1**
Analysis Date: **09/23/14 10:44** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.198	0.010	0.2	0.01724	90	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D**

Run ID :Run Order: **FIA202-HE_140923B: 29** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-001Dmsd** Method: **E365.1**
Analysis Date: **09/23/14 10:45** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.198	0.010	0.2	0.01724	90	90	110	0.1979	0.0	20	

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26262

Date: *24-Oct-14*

Run ID :Run Order: **FIA202-HE_140923B: 41** SampType: **Laboratory Control Sample** Lab ID: **LCS-26262** Method: **E365.1**
Analysis Date: **09/23/14 10:58** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.368	0.010	0.4	0	92	90	110				

Associated samples: **H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA202-HE_140923B: 42** SampType: **Method Blank** Lab ID: **MB-26262** Method: **E365.1**
Analysis Date: **09/23/14 10:59** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA202-HE_140923B: 49** SampType: **Sample Matrix Spike** Lab ID: **H14090354-001Cms** Method: **E365.1**
Analysis Date: **09/23/14 11:06** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.202	0.010	0.2	0.01719	92	90	110				

Associated samples: **H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA202-HE_140923B: 50** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090354-001Cmsd** Method: **E365.1**
Analysis Date: **09/23/14 11:07** Units: **mg/L** **Prep Info:** Prep Date: **9/22/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.203	0.010	0.2	0.01719	93	90	110	0.2016	0.5	20	

Associated samples: **H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26265

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140924A: 66** SampType: **Laboratory Control Sample** Lab ID: **LCS-26265** Method: **A4500 N-C**
Analysis Date: **09/24/14 11:18** Units: **mg/L** **Prep Info:** Prep Date: **9/23/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	14.4	0.30	15.2	0	95	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **FIA203-HE_140924A: 67** SampType: **Method Blank** Lab ID: **MB-26265** Method: **A4500 N-C**
Analysis Date: **09/24/14 11:19** Units: **mg/L** **Prep Info:** Prep Date: **9/23/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **FIA203-HE_140924A: 74** SampType: **Sample Matrix Spike** Lab ID: **H14090349-002AMS** Method: **A4500 N-C**
Analysis Date: **09/24/14 11:27** Units: **mg/L** **Prep Info:** Prep Date: **9/23/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.934	0.10	1	0	93	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **FIA203-HE_140924A: 75** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-002AMSD** Method: **A4500 N-C**
Analysis Date: **09/24/14 11:28** Units: **mg/L** **Prep Info:** Prep Date: **9/23/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.950	0.10	1	0	95	90	110	0.9339	1.7	20	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **FIA203-HE_140924A: 94** SampType: **Sample Matrix Spike** Lab ID: **H14090354-001BMS** Method: **A4500 N-C**
Analysis Date: **09/24/14 11:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.25	0.10	1	0.09302	116	90	110				S

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26265

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140924A: 95** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090354-001BMSD** Method: **A4500 N-C**

Analysis Date: **09/24/14 11:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.17	0.10	1	0.09302	108	90	110	1.249	6.5	20	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26305

Date: *24-Oct-14*

Run ID :Run Order: **HGCV202-H_140925A: 4** SampType: **Method Blank** Lab ID: **MB-26235** Method: **E245.1**
Analysis Date: **09/25/14 11:23** Units: **mg/L** **Prep Info:** Prep Date: **9/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	3E-06	1E-06									

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 6** SampType: **Laboratory Control Sample** Lab ID: **LCS-26305** Method: **E245.1**
Analysis Date: **09/25/14 11:32** Units: **mg/L** **Prep Info:** Prep Date: **9/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000296	106	90	110				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 17** SampType: **Sample Matrix Spike** Lab ID: **H14090352-001CMS** Method: **E245.1**
Analysis Date: **09/25/14 12:18** Units: **mg/L** **Prep Info:** Prep Date: **9/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00015	0.00010	0.00015	0.00001631	87	70	130				

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Run ID :Run Order: **HGCV202-H_140925A: 18** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090352-001CMSD** Method: **E245.1**
Analysis Date: **09/25/14 12:22** Units: **mg/L** **Prep Info:** Prep Date: **9/24/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00001631	98	70	130	0.0001472	10	20	

Associated samples: **H14090349-002C, H14090349-003C, H14090349-004C, H14090349-016A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26481

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_141010A: 23** SampType: **Method Blank** Lab ID: **MB-26481** Method: **SW6020**
Analysis Date: **10/10/14 12:15** Units: **mg/kg** **Prep Info:** Prep Date: **10/8/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.3									
Cadmium	ND	0.2									
Copper	ND	0.7									
Lead	ND	0.2									
Zinc	4	4									

Associated samples: **H14090349-018A, H14090349-018B, H14090349-019A, H14090349-019B, H14090349-020A, H14090349-020B, H14090349-021A, H14090349-021B, H14090349-022A, H14090349-022B, H14090349-023A, H14090349-023B, H14090349-024A, H14090349-024B, H14090349-025A, H14090349-025B, H14090349-026A, H14090349-026B, H14090349-027A, H14090349-027B, H14090349-028A, H14090349-028B, H14090349-029A, H14090349-029B, H14090349-030A, H14090349-030B, H14090349-031A, H14090349-031B, H14090349-032A, H14090349-032B**

Run ID :Run Order: **ICPMS204-B_141010A: 24** SampType: **Laboratory Control Sample** Lab ID: **LCS-26481** Method: **SW6020**
Analysis Date: **10/10/14 12:20** Units: **mg/kg** **Prep Info:** Prep Date: **10/8/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	286	1.0	343	0	84	72.3	106.4				
Cadmium	118	1.0	137	0	86	73	105.1				
Copper	254	1.0	280	0	91	77.5	109.6				
Lead	172	1.0	187	0	92	75.9	108.6				
Zinc	201	3.7	213	4.395	92	74.2	109.9				

Associated samples: **H14090349-018A, H14090349-018B, H14090349-019A, H14090349-019B, H14090349-020A, H14090349-020B, H14090349-021A, H14090349-021B, H14090349-022A, H14090349-022B, H14090349-023A, H14090349-023B, H14090349-024A, H14090349-024B, H14090349-025A, H14090349-025B, H14090349-026A, H14090349-026B, H14090349-027A, H14090349-027B, H14090349-028A, H14090349-028B, H14090349-029A, H14090349-029B, H14090349-030A, H14090349-030B, H14090349-031A, H14090349-031B, H14090349-032A, H14090349-032B**

Run ID :Run Order: **ICPMS204-B_141010A: 25** SampType: **Laboratory Fortified Blank** Lab ID: **LFB-26481** Method: **SW6020**
Analysis Date: **10/10/14 12:24** Units: **mg/kg** **Prep Info:** Prep Date: **10/8/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.7	1.0	50	0	97	80	120				
Cadmium	24.8	1.0	25	0	99	80	120				
Copper	50.0	1.0	50	0	100	80	120				
Lead	47.6	1.0	50	0	95	80	120				
Zinc	53.5	3.5	50	4.395	98	80	120				

Associated samples: **H14090349-018A, H14090349-018B, H14090349-019A, H14090349-019B, H14090349-020A, H14090349-020B, H14090349-021A, H14090349-021B, H14090349-022A, H14090349-022B, H14090349-023A, H14090349-023B, H14090349-024A, H14090349-024B, H14090349-025A, H14090349-025B, H14090349-026A, H14090349-026B, H14090349-027A, H14090349-027B, H14090349-028A, H14090349-028B, H14090349-029A, H14090349-029B, H14090349-030A, H14090349-030B, H14090349-031A, H14090349-031B, H14090349-032A, H14090349-032B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 26481

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_141010A: 51** SampType: **Sample Matrix Spike** Lab ID: **H14090349-032AMS** Method: **SW6020**

Analysis Date: **10/10/14 14:14** Units: **mg/kg** **Prep Info:** Prep Date: **10/8/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	61.2	1.0	52.08	10.65	97	75	125				
Cadmium	27.6	1.0	26.04	0.6971	103	75	125				
Copper	89.1	1.0	52.08	38.61	97	75	125				
Lead	117	1.0	52.08	67.79	94	75	125				
Zinc	128	3.7	52.08	72.29	107	75	125				

Associated samples: **H14090349-018A, H14090349-018B, H14090349-019A, H14090349-019B, H14090349-020A, H14090349-020B, H14090349-021A, H14090349-021B, H14090349-022A, H14090349-022B, H14090349-023A, H14090349-023B, H14090349-024A, H14090349-024B, H14090349-025A, H14090349-025B, H14090349-026A, H14090349-026B, H14090349-027A, H14090349-027B, H14090349-028A, H14090349-028B, H14090349-029A, H14090349-029B, H14090349-030A, H14090349-030B, H14090349-031A, H14090349-031B, H14090349-032A, H14090349-032B**

Run ID :Run Order: **ICPMS204-B_141010A: 52** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-032AMSD** Method: **SW6020**

Analysis Date: **10/10/14 14:18** Units: **mg/kg** **Prep Info:** Prep Date: **10/8/2014** Prep Method: **SW3050 B**

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	60.4	1.0	51.55	10.65	96	75	125	61.22	1.4	20	
Cadmium	27.6	1.0	25.77	0.6971	104	75	125	27.55	0.0	20	
Copper	89.2	1.0	51.55	38.61	98	75	125	89.09	0.1	20	
Lead	113	1.0	51.55	67.79	88	75	125	116.6	2.8	20	
Zinc	122	3.6	51.55	72.29	97	75	125	128.2	4.7	20	

Associated samples: **H14090349-018A, H14090349-018B, H14090349-019A, H14090349-019B, H14090349-020A, H14090349-020B, H14090349-021A, H14090349-021B, H14090349-022A, H14090349-022B, H14090349-023A, H14090349-023B, H14090349-024A, H14090349-024B, H14090349-025A, H14090349-025B, H14090349-026A, H14090349-026B, H14090349-027A, H14090349-027B, H14090349-028A, H14090349-028B, H14090349-029A, H14090349-029B, H14090349-030A, H14090349-030B, H14090349-031A, H14090349-031B, H14090349-032A, H14090349-032B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R191469

Date: *24-Oct-14*

Run ID :Run Order: **SUB-C191469: 1** SampType: **Method Blank** Lab ID: **MBLK** Method: **A5310 C**
Analysis Date: **09/23/14 15:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	ND	0.04									

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 2** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-8116** Method: **A5310 C**
Analysis Date: **09/23/14 15:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.0	0.50	10	0	100	90	110	0			

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 3** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-7923** Method: **A5310 C**
Analysis Date: **09/23/14 15:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.98	0.50	10	0	100	90	110	0			

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 5** SampType: **Sample Matrix Spike** Lab ID: **H14090349-001E** Method: **A5310 C**
Analysis Date: **09/23/14 16:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.22	0.50	5	2.059	103	85	115	0			

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 6** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-001E** Method: **A5310 C**
Analysis Date: **09/23/14 16:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	7.21	0.50	5	2.059	103	85	115	7.215	0.1	10	

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Qualifiers:
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J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R191469

Date: *24-Oct-14*

Run ID :Run Order: **SUB-C191469: 16** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-7923** Method: **A5310 C**

Analysis Date: **09/23/14 19:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.96	0.50	10	0	100	90	110	0			

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 18** SampType: **Sample Matrix Spike** Lab ID: **H14090349-011E** Method: **A5310 C**

Analysis Date: **09/23/14 20:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.1	0.50	5	4.911	104	85	115	0			

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 19** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-011E** Method: **A5310 C**

Analysis Date: **09/23/14 20:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.5	0.50	5	4.911	111	85	115	10.13	3.4	10	

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Run ID :Run Order: **SUB-C191469: 24** SampType: **Laboratory Control Sample** Lab ID: **LCS-8116** Method: **A5310 C**

Analysis Date: **09/23/14 21:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	10.0	0.50	10	0	100	90	110	0			

Associated samples: **H14090349-001E, H14090349-002E, H14090349-003E, H14090349-004E, H14090349-005E, H14090349-006E, H14090349-007E, H14090349-008E, H14090349-009E, H14090349-010E, H14090349-011E, H14090349-012E, H14090349-013E, H14090349-014E, H14090349-015E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100741

Date: *24-Oct-14*

Run ID :Run Order: **IC102-H_140919A: 12** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**
Analysis Date: **09/19/14 10:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	101	90	110				
Sulfate	400	1.0	400	0	101	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 13** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**
Analysis Date: **09/19/14 11:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.008									
Sulfate	ND	0.08									

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 14** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**
Analysis Date: **09/19/14 11:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	47	1.0	50	0	95	90	110				
Sulfate	190	1.0	200	0	97	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 15** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV091914-1** Method: **E300.0**
Analysis Date: **09/19/14 11:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	102	90	110				
Sulfate	410	1.0	400	0	102	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 18** SampType: **Sample Matrix Spike** Lab ID: **H14090339-001AMS** Method: **E300.0**
Analysis Date: **09/19/14 11:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	50	54.04	103	90	110				
Sulfate	310	1.0	200	96.12	107	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100741

Date: *24-Oct-14*

Run ID :Run Order: **IC102-H_140919A: 18** SampType: **Sample Matrix Spike** Lab ID: **H14090339-001AMS** Method: **E300.0**
Analysis Date: **09/19/14 11:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 19** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090339-001AMSD** Method: **E300.0**
Analysis Date: **09/19/14 12:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	110	1.0	50	54.04	104	90	110	105.8	0.3	20	
Sulfate	320	1.0	200	96.12	109	90	110	311	1.3	20	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 29** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV091914-2** Method: **E300.0**
Analysis Date: **09/19/14 13:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	101	90	110				
Sulfate	410	1.0	400	0	102	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 32** SampType: **Sample Matrix Spike** Lab ID: **H14090349-009AMS** Method: **E300.0**
Analysis Date: **09/19/14 14:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	60	1.0	50	9.853	100	90	110				
Sulfate	280	1.0	200	69.24	107	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **IC102-H_140919A: 33** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-009AMSD** Method: **E300.0**
Analysis Date: **09/19/14 14:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	61	1.0	50	9.853	101	90	110	59.74	1.4	20	
Sulfate	290	1.0	200	69.24	108	90	110	282.6	1.1	20	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100747

Date: *24-Oct-14*

Run ID :Run Order: **PHSC_101-H_140922A: 21** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **09/22/14 10:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	2	2									

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 23** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **09/22/14 10:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	590	4.0	600	2.12	98	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 28** SampType: **Sample Duplicate** Lab ID: **H14090336-001ADUP** Method: **A2320 B**
Analysis Date: **09/22/14 11:10** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	130	4.0		0				126.6	0.8	10	
Bicarbonate as HCO3	150	4.0		0				153.8	0.8	10	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 32** SampType: **Sample Matrix Spike** Lab ID: **H14090336-002AMS** Method: **A2320 B**
Analysis Date: **09/22/14 11:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	700	4.0	600	122.6	96	80	120				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 67** SampType: **Sample Duplicate** Lab ID: **H14090349-015ADUP** Method: **A2320 B**
Analysis Date: **09/22/14 13:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	84	4.0		0				83.6	1.1	10	
Bicarbonate as HCO3	100	4.0		0				101.4	1.1	10	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100747

Date: *24-Oct-14*

Run ID :Run Order: **PHSC_101-H_140922A: 69** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **09/22/14 13:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	2									

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 71** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **09/22/14 13:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	590	4.0	600	0	99	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 74** SampType: **Sample Duplicate** Lab ID: **H14090357-002ADUP** Method: **A2320 B**
Analysis Date: **09/22/14 13:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	200	4.0		0				199.4	0.6	10	
Bicarbonate as HCO3	240	4.0		0				242.7	0.6	10	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **PHSC_101-H_140922A: 78** SampType: **Sample Matrix Spike** Lab ID: **H14090357-005AMS** Method: **A2320 B**
Analysis Date: **09/22/14 13:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	660	4.0	600	127.8	88	80	120				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100767

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140922B: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **09/22/14 11:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.01	0.010	1	0	101	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **09/22/14 11:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.902	0.011	1	0	90	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **09/22/14 11:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.00865	0.010		0		0	0				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **09/22/14 11:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	ND	0.001									

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 15** SampType: **Sample Duplicate** Lab ID: **H14080533-004HDUP** Method: **E353.2**
Analysis Date: **09/22/14 11:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.00961	0.010		0				0.01281		20	

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100767

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140922B: 28** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **09/22/14 11:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.468	0.010	0.5	0	94	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 34** SampType: **Sample Matrix Spike** Lab ID: **H14090349-002DMS** Method: **E353.2**
Analysis Date: **09/22/14 11:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.876	0.011	1	0	88	90	110				S

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 35** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-002DMSD** Method: **E353.2**
Analysis Date: **09/22/14 11:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.881	0.011	1	0	88	90	110	0.876	0.5	20	S

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 42** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **09/22/14 11:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.465	0.010	0.5	0	93	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 44** SampType: **Sample Matrix Spike** Lab ID: **H14090349-008DMS** Method: **E353.2**
Analysis Date: **09/22/14 12:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.874	0.011	1	0	87	90	110				S

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100767

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140922B: 45** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-008DMSD** Method: **E353.2**

Analysis Date: **09/22/14 12:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.895	0.011	1	0	89	90	110	0.8743	2.3	20	S

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 58** SampType: **Sample Matrix Spike** Lab ID: **H14090353-001CMS** Method: **E353.2**

Analysis Date: **09/22/14 12:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.21	0.011	1	0.3256	88	90	110				S

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140922B: 59** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090353-001CMSD** Method: **E353.2**

Analysis Date: **09/22/14 12:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.22	0.011	1	0.3256	90	90	110	1.21	1.2	20	

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100792

Date: *24-Oct-14*

Run ID :Run Order: **FIA202-HE_140923B: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**
Analysis Date: **09/23/14 10:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.228	0.010	0.25	0	91	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA202-HE_140923B: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E365.1**
Analysis Date: **09/23/14 10:26** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.000370	0.010		0		0	0				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA202-HE_140923B: 26** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **09/23/14 10:42** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0926	0.010	0.1	0	93	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA202-HE_140923B: 40** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **09/23/14 10:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0942	0.010	0.1	0	94	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100807

Date: *24-Oct-14*

Run ID :Run Order: **ICP2-HE_140923A: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **09/23/14 10:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	39.3	1.0	40	0	98	95	105				
Magnesium	39.9	1.0	40	0	100	95	105				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **09/23/14 10:05** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.2	1.0	25	0	101	95	105				
Magnesium	25.2	1.0	25	0	101	95	105				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **09/23/14 10:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	480	1.0	500	0	96	80	120				
Magnesium	518	1.0	500	0	104	80	120				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **09/23/14 10:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	484	1.0	500	0	97	80	120				
Magnesium	527	1.0	500	0	105	80	120				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **09/23/14 11:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.1	1.0	25	0	100	90	110				
Magnesium	26.1	1.0	25	0	104	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100807

Date: *24-Oct-14*

Run ID :Run Order: **ICP2-HE_140923A: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **09/23/14 11:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Run ID :Run Order: **ICP2-HE_140923A: 43** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **09/23/14 12:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.4	1.0	25	0	102	90	110				
Magnesium	26.2	1.0	25	0	105	90	110				

Associated samples: **H14090349-001C, H14090349-002C, H14090349-003C, H14090349-004C, H14090349-005C, H14090349-006C, H14090349-007C, H14090349-008C, H14090349-009C, H14090349-010C, H14090349-011C, H14090349-012C, H14090349-013C, H14090349-014C, H14090349-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100819

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 9** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **09/23/14 22:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0602	0.0050	0.06	0	100	90	110				
Cadmium	0.0312	0.0010	0.03	0	104	90	110				
Copper	0.0626	0.010	0.06	0	104	90	110				
Lead	0.0593	0.010	0.06	0	99	90	110				
Zinc	0.0618	0.010	0.06	0	103	90	110				

Associated samples: **H14090349-001B, H14090349-001C, H14090349-002B, H14090349-002C, H14090349-003B, H14090349-003C, H14090349-004B, H14090349-004C**

Run ID :Run Order: **ICPMS204-B_140923B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **09/23/14 22:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000100	0.0050		0							
Cadmium	0.000609	0.0010		0							
Copper	0.000402	0.010		0							
Lead	0.000241	0.010		0							
Zinc	0.00190	0.010		0							

Associated samples: **H14090349-001B, H14090349-001C, H14090349-002B, H14090349-002C, H14090349-003B, H14090349-003C, H14090349-004B, H14090349-004C**

Run ID :Run Order: **ICPMS204-B_140923B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **09/23/14 22:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0110	0.0050	0.01	0	110	70	130				
Cadmium	0.00983	0.0010	0.01	0	98	70	130				
Copper	0.0215	0.010	0.02	0	108	70	130				
Lead	0.000258	0.010		0		0	0				
Zinc	0.0119	0.010	0.01	0	119	70	130				

Associated samples: **H14090349-001B, H14090349-001C, H14090349-002B, H14090349-002C, H14090349-003B, H14090349-003C, H14090349-004B, H14090349-004C**

Run ID :Run Order: **ICPMS204-B_140923B: 16** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**
Analysis Date: **09/23/14 23:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									
Copper	ND	3E-05									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100819

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 16** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**
Analysis Date: **09/23/14 23:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	8E-06									
Zinc	0.0004	0.0003									

Associated samples: **H14090349-001B, H14090349-002B, H14090349-003B, H14090349-004B**

Run ID :Run Order: **ICPMS204-B_140923B: 17** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**
Analysis Date: **09/23/14 23:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0498	0.0050	0.05	0	100	85	115				
Cadmium	0.0502	0.0010	0.05	0	100	85	115				
Copper	0.0515	0.010	0.05	0	103	85	115				
Lead	0.0493	0.010	0.05	0	99	85	115				
Zinc	0.0524	0.010	0.05	0.0003699	104	85	115				

Associated samples: **H14090349-001B, H14090349-002B, H14090349-003B, H14090349-004B**

Run ID :Run Order: **ICPMS204-B_140923B: 36** SampType: **Sample Matrix Spike** Lab ID: **H14090349-001BMS** Method: **E200.8**
Analysis Date: **09/24/14 00:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0604	0.0010	0.05	0.007202	106	70	130				
Cadmium	0.0508	0.0010	0.05	0.0000193	102	70	130				
Copper	0.0559	0.0050	0.05	0.003225	105	70	130				
Lead	0.0508	0.0010	0.05	0.0000428	102	70	130				
Zinc	0.0580	0.010	0.05	0.006601	103	70	130				

Associated samples: **H14090349-001B, H14090349-002B, H14090349-003B, H14090349-004B**

Run ID :Run Order: **ICPMS204-B_140923B: 37** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-001BMSD** Method: **E200.8**
Analysis Date: **09/24/14 00:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0604	0.0010	0.05	0.007202	106	70	130	0.06035	0.0	20	
Cadmium	0.0505	0.0010	0.05	0.0000193	101	70	130	0.05081	0.6	20	
Copper	0.0563	0.0050	0.05	0.003225	106	70	130	0.05594	0.6	20	
Lead	0.0509	0.0010	0.05	0.0000428	102	70	130	0.05082	0.2	20	
Zinc	0.0580	0.010	0.05	0.006601	103	70	130	0.05804	0.2	20	

Associated samples: **H14090349-001B, H14090349-002B, H14090349-003B, H14090349-004B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100819

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 69** SampType: **Sample Matrix Spike** Lab ID: **H14090349-011BMS** Method: **E200.8**
Analysis Date: **09/24/14 02:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0815	0.0010	0.05	0.02873	106	70	130				
Cadmium	0.0493	0.0010	0.05	0.0000198	99	70	130				
Copper	0.0563	0.0050	0.05	0.003044	106	70	130				
Lead	0.0509	0.0010	0.05	0.0001529	101	70	130				
Zinc	0.0551	0.010	0.05	0.003561	103	70	130				

Associated samples: **H14090349-001B, H14090349-002B, H14090349-003B, H14090349-004B**

Run ID :Run Order: **ICPMS204-B_140923B: 70** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-011BMSD** Method: **E200.8**
Analysis Date: **09/24/14 02:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0811	0.0010	0.05	0.02873	105	70	130	0.0815	0.5	20	
Cadmium	0.0497	0.0010	0.05	0.0000198	99	70	130	0.0493	0.8	20	
Copper	0.0572	0.0050	0.05	0.003044	108	70	130	0.05626	1.7	20	
Lead	0.0510	0.0010	0.05	0.0001529	102	70	130	0.0509	0.1	20	
Zinc	0.0554	0.010	0.05	0.003561	104	70	130	0.0551	0.5	20	

Associated samples: **H14090349-001B, H14090349-002B, H14090349-003B, H14090349-004B**

Run ID :Run Order: **ICPMS204-B_140923B: 124** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **09/24/14 06:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	6.00E-05	0.0050		0							
Cadmium	0.000564	0.0010		0							
Copper	0.000372	0.010		0							
Lead	0.000213	0.010		0							
Zinc	0.00168	0.010		0							

Associated samples: **H14090349-001B, H14090349-001C, H14090349-002B, H14090349-002C, H14090349-003B, H14090349-003C, H14090349-004B, H14090349-004C**

Run ID :Run Order: **ICPMS204-B_140923B: 125** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**
Analysis Date: **09/24/14 07:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0111	0.0050	0.01	0	111	70	130				
Cadmium	0.00974	0.0010	0.01	0	97	70	130				
Copper	0.0220	0.010	0.02	0	110	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100819

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140923B: 125** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **09/24/14 07:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.000242	0.010		0		0	0				
Zinc	0.0120	0.010	0.01	0	120	70	130				

Associated samples: **H14090349-001B, H14090349-001C, H14090349-002B, H14090349-002C, H14090349-003B, H14090349-003C, H14090349-004B, H14090349-004C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100829

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140924A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **09/24/14 10:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.0437	0.10		0		0	0				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **FIA203-HE_140924A: 61** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **09/24/14 11:12** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.470	0.10	0.5	0	94	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **FIA203-HE_140924A: 83** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **09/24/14 11:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.533	0.10	0.5	0	107	90	110				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100883

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140924A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **09/24/14 14:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0607	0.0050	0.06	0	101	90	110				
Cadmium	0.0319	0.0010	0.03	0	106	90	110				
Copper	0.0634	0.010	0.06	0	106	90	110				
Lead	0.0602	0.010	0.06	0	100	90	110				
Zinc	0.0632	0.010	0.06	0	105	90	110				

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **09/24/14 14:40** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000109	0.0050		0							
Cadmium	0.000840	0.0010		0							
Copper	0.000385	0.010		0							
Lead	0.000242	0.010		0							
Zinc	0.00150	0.010		0							

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **09/24/14 14:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0102	0.0050	0.01	0	102	70	130				
Cadmium	0.00984	0.0010	0.01	0	98	70	130				
Copper	0.0204	0.010	0.02	0	102	70	130				
Lead	0.000248	0.010		0		0	0				
Zinc	0.0114	0.010	0.01	0	114	70	130				

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100883

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140924A: 18** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**
Analysis Date: **09/24/14 15:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									
Copper	ND	3E-05									
Lead	ND	8E-06									
Zinc	ND	0.0003									

Associated samples: **H14090349-005B, H14090349-006B, H14090349-007B, H14090349-008B, H14090349-009B, H14090349-010B, H14090349-011B, H14090349-012B, H14090349-013B, H14090349-014B, H14090349-015B**

Run ID :Run Order: **ICPMS204-B_140924A: 19** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**
Analysis Date: **09/24/14 15:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0492	0.0050	0.05	0	98	85	115				
Cadmium	0.0492	0.0010	0.05	0	98	85	115				
Copper	0.0510	0.010	0.05	0	102	85	115				
Lead	0.0488	0.010	0.05	0	98	85	115				
Zinc	0.0524	0.010	0.05	0	105	85	115				

Associated samples: **H14090349-005B, H14090349-006B, H14090349-007B, H14090349-008B, H14090349-009B, H14090349-010B, H14090349-011B, H14090349-012B, H14090349-013B, H14090349-014B, H14090349-015B**

Run ID :Run Order: **ICPMS204-B_140924A: 50** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**
Analysis Date: **09/24/14 17:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0597	0.0050	0.06	0	99	90	110				
Cadmium	0.0317	0.0010	0.03	0	106	90	110				
Copper	0.0620	0.010	0.06	0	103	90	110				
Lead	0.0604	0.010	0.06	0	101	90	110				
Zinc	0.0622	0.010	0.06	0	104	90	110				

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100883

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140924A: 51** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **09/24/14 18:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000111	0.0050		0							
Cadmium	0.000826	0.0010		0							
Copper	0.000392	0.010		0							
Lead	0.000239	0.010		0							
Zinc	0.00169	0.010		0							

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 52** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **09/24/14 18:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0104	0.0050	0.01	0	104	70	130				
Cadmium	0.0100	0.0010	0.01	0	100	70	130				
Copper	0.0196	0.010	0.02	0	98	70	130				
Lead	0.000258	0.010		0		0	0				
Zinc	0.0113	0.010	0.01	0	113	70	130				

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 89** SampType: **Sample Matrix Spike** Lab ID: **H14090349-011BMS** Method: **E200.8**

Analysis Date: **09/25/14 00:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0784	0.0010	0.05	0.02781	101	70	130				
Cadmium	0.0495	0.0010	0.05	0.0000227	99	70	130				
Copper	0.0530	0.0050	0.05	0.002889	100	70	130				
Lead	0.0496	0.0010	0.05	0.0001652	99	70	130				
Zinc	0.0537	0.010	0.05	0.003264	101	70	130				

Associated samples: **H14090349-005B, H14090349-006B, H14090349-007B, H14090349-008B, H14090349-009B, H14090349-010B, H14090349-011B, H14090349-012B, H14090349-013B, H14090349-014B, H14090349-015B**

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100883

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140924A: 90** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-011BMSD** Method: **E200.8**

Analysis Date: **09/25/14 00:45** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0779	0.0010	0.05	0.02781	100	70	130	0.0784	0.6	20	
Cadmium	0.0496	0.0010	0.05	0.0000227	99	70	130	0.04947	0.3	20	
Copper	0.0526	0.0050	0.05	0.002889	99	70	130	0.05296	0.7	20	
Lead	0.0495	0.0010	0.05	0.0001652	99	70	130	0.04961	0.2	20	
Zinc	0.0534	0.010	0.05	0.003264	100	70	130	0.05367	0.6	20	

Associated samples: **H14090349-005B, H14090349-006B, H14090349-007B, H14090349-008B, H14090349-009B, H14090349-010B, H14090349-011B, H14090349-012B, H14090349-013B, H14090349-014B, H14090349-015B**

Run ID :Run Order: **ICPMS204-B_140924A: 188** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **09/25/14 08:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000118	0.0050		0							
Cadmium	0.000741	0.0010		0							
Copper	0.000305	0.010		0							
Lead	0.000227	0.010		0							
Zinc	0.00152	0.010		0							

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Run ID :Run Order: **ICPMS204-B_140924A: 189** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **09/25/14 08:41** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0108	0.0050	0.01	0	108	70	130				
Cadmium	0.00970	0.0010	0.01	0	97	70	130				
Copper	0.0200	0.010	0.02	0	100	70	130				
Lead	0.000247	0.010		0		0	0				
Zinc	0.0113	0.010	0.01	0	113	70	130				

Associated samples: **H14090349-005B, H14090349-005C, H14090349-006B, H14090349-006C, H14090349-007B, H14090349-007C, H14090349-008B, H14090349-008C, H14090349-009B, H14090349-009C, H14090349-010B, H14090349-010C, H14090349-011B, H14090349-011C, H14090349-012B, H14090349-012C, H14090349-013B, H14090349-013C, H14090349-014B, H14090349-014C, H14090349-015B, H14090349-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100918

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_140926B: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **09/26/14 19:52** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0613	0.010	0.06	0	102	90	110				

Associated samples: **H14090349-009C**

Run ID :Run Order: **ICPMS204-B_140926B: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **09/26/14 19:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.00157	0.010		0							

Associated samples: **H14090349-009C**

Run ID :Run Order: **ICPMS204-B_140926B: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **09/26/14 20:00** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	0.0116	0.010	0.01	0	116	70	130				

Associated samples: **H14090349-009C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100946

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140929B: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **09/29/14 10:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	1.04	0.055	1	0	104	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **09/29/14 10:44** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.455	0.050	0.5	0	91	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **09/29/14 10:46** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	-0.0328	0.050		0		0	0				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 14** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **09/29/14 10:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	14.8	0.50	15.2	0	98	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 20** SampType: **Sample Matrix Spike** Lab ID: **H14090349-001DMS** Method: **E350.1**
Analysis Date: **09/29/14 10:57** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.808	0.055	1	0	81	80	120				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R100946

Date: *24-Oct-14*

Run ID :Run Order: **FIA203-HE_140929B: 21** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090349-001DMSD** Method: **E350.1**

Analysis Date: **09/29/14 10:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.824	0.055	1	0	82	80	120	0.8083	1.9	10	

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 28** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**

Analysis Date: **09/29/14 11:07** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.454	0.050	0.5	0	91	90	110				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 40** SampType: **Sample Matrix Spike** Lab ID: **H14090354-001AMS** Method: **E350.1**

Analysis Date: **09/29/14 11:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.798	0.055	1	0	80	80	120				

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Run ID :Run Order: **FIA203-HE_140929B: 41** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14090354-001AMSD** Method: **E350.1**

Analysis Date: **09/29/14 11:22** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.777	0.055	1	0	78	80	120	0.7983	2.6	10	S

Associated samples: **H14090349-001D, H14090349-002D, H14090349-003D, H14090349-004D, H14090349-005D, H14090349-006D, H14090349-007D, H14090349-008D, H14090349-009D, H14090349-010D, H14090349-011D, H14090349-012D, H14090349-013D, H14090349-014D, H14090349-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R101303

Date: *24-Oct-14*

Run ID :Run Order: **ICPMS204-B_141010A: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **SW6020**

Analysis Date: **10/10/14 11:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0604	0.0010	0.06	0	101	90	110				
Cadmium	0.0315	0.0010	0.03	0	105	90	110				
Copper	0.0616	0.0010	0.06	0	103	90	110				
Lead	0.0596	0.0010	0.06	0	99	90	110				
Zinc	0.0631	0.0010	0.06	0	105	90	110				

Associated samples: **H14090349-018A, H14090349-018B, H14090349-019A, H14090349-019B, H14090349-020A, H14090349-020B, H14090349-021A, H14090349-021B, H14090349-022A, H14090349-022B, H14090349-023A, H14090349-023B, H14090349-024A, H14090349-024B, H14090349-025A, H14090349-025B, H14090349-026A, H14090349-026B, H14090349-027A, H14090349-027B, H14090349-028A, H14090349-028B, H14090349-029A, H14090349-029B, H14090349-030A, H14090349-030B, H14090349-031A, H14090349-031B, H14090349-032A, H14090349-032B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R101349

Date: *24-Oct-14*

Run ID :Run Order: **SOIL DRYING OVEN 2_141010A: 2** SampType: **Sample Duplicate** Lab ID: **H14090349-019BDUP** Method: **D2974**

Analysis Date: **10/13/14 13:57** Units: **wt%** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Moisture	62.6	0.20		0				72.59			

Associated samples: **H14090349-018B, H14090349-019B, H14090349-020B, H14090349-021B, H14090349-022B, H14090349-023B, H14090349-024B, H14090349-025B, H14090349-026B, H14090349-027B, H14090349-028B, H14090349-029B, H14090349-030B, H14090349-031B, H14090349-032B**

Run ID :Run Order: **SOIL DRYING OVEN 2_141010A: 3** SampType: **Sample Duplicate** Lab ID: **H14090349-028BDUP** Method: **D2974**

Analysis Date: **10/13/14 13:57** Units: **wt%** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Moisture	65.2	0.20		0				69.21			

Associated samples: **H14090349-018B, H14090349-019B, H14090349-020B, H14090349-021B, H14090349-022B, H14090349-023B, H14090349-024B, H14090349-025B, H14090349-026B, H14090349-027B, H14090349-028B, H14090349-029B, H14090349-030B, H14090349-031B, H14090349-032B**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140919A

Date: *24-Oct-14*

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 1** SampType: **Method Blank** Lab ID: **MB-1_140919A** Method: **A2540 D**
Analysis Date: **09/19/14 11:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-2_140919A** Method: **A2540 D**
Analysis Date: **09/19/14 11:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	93.0	10	100	0	93	80	120				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 4** SampType: **Sample Duplicate** Lab ID: **H14090336-001A DUP** Method: **A2540 D**
Analysis Date: **09/19/14 11:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	10		0				0		5	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 1** SampType: **Sample Duplicate** Lab ID: **H14090338-001B DUP** Method: **A2540 D**
Analysis Date: **09/19/14 11:33** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	10		0				0		5	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 2** SampType: **Method Blank** Lab ID: **MB-25_140919A** Method: **A2540 D**
Analysis Date: **09/19/14 11:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14090349
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS140919A

Date: *24-Oct-14*

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-26_140919A** Method: **A2540 D**

Analysis Date: **09/19/14 11:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	99.0	10	100	0	99	80	120				

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Run ID :Run Order: **ACCU-124 (14410200)_140919B: 2** SampType: **Sample Duplicate** Lab ID: **H14090350-001A DUP** Method: **A2540 D**

Analysis Date: **09/19/14 12:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	137	33		0				136.7	0.0	5	

Associated samples: **H14090349-001A, H14090349-002A, H14090349-003A, H14090349-004A, H14090349-005A, H14090349-006A, H14090349-007A, H14090349-008A, H14090349-009A, H14090349-010A, H14090349-011A, H14090349-012A, H14090349-013A, H14090349-014A, H14090349-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

October 15, 2014

Energy Laboratories, Inc.
ATTN: Jonathan Dee Hager
PO Box 5688
Helena MT 59604
jhager@energylab.com

RE: Project ENL-HL1201 Client Project: H14090349

Dear Jonathan Dee Hager,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on September 23, 2014. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data is reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves

Lydia Greaves
Project Manager
Lydia@brooksrand.com

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12973

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12973

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
H14090349-002F	1439012-01	DIW	Field Blank	09/16/2014	09/23/2014
H14090349-003F	1439012-02	Water	Sample	09/16/2014	09/23/2014
H14090349-004F	1439012-03	Water	Field Duplicate	09/16/2014	09/23/2014
H14090349-016B	1439012-04	Water	Sample	09/16/2014	09/23/2014
H14090349-017A	1439012-05	DIW	Trip Blank	09/16/2014	09/23/2014

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	09/29/2014	10/01/2014	B141764	1400835

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12973

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
H14090349-002F										
1439012-01	MeHg	DIW	T	0.020	U	0.020	0.050	ng/L	B141764	1400835
H14090349-003F										
1439012-02	MeHg	Water	T	0.455		0.020	0.049	ng/L	B141764	1400835
H14090349-004F										
1439012-03	MeHg	Water	T	0.618		0.019	0.049	ng/L	B141764	1400835
H14090349-016B										
1439012-04	MeHg	Water	T	0.237		0.019	0.048	ng/L	B141764	1400835
H14090349-017A										
1439012-05	MeHg	DIW	T	0.020	U	0.020	0.050	ng/L	B141764	1400835

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12973

Accuracy & Precision Summary

Batch: B141764
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits		RPD & Limits	
B141764-BS1	**Laboratory Fortified Blank (1438002)**								
	MeHg		1.000	1.125	ng/L	112%	67-133		
B141764-BS2	**Laboratory Fortified Blank (1438002)**								
	MeHg		1.000	0.885	ng/L	88%	67-133		
B141764-MS2	**Matrix Spike (1439022-02)**								
	MeHg	0.138	1.250	1.119	ng/L	78%	65-135		
B141764-MSD2	**Matrix Spike Duplicate (1439022-02)**								
	MeHg	0.138	1.250	1.519	ng/L	110%	65-135	30%	35

Method Blanks & Reporting Limits

Batch: B141764
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B141764-BLK1	0.007	ng/L
B141764-BLK2	0.009	ng/L
B141764-BLK3	0.006	ng/L
B141764-BLK4	0.014	ng/L

Average: 0.009 **Standard Deviation:** 0.004 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

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Project ID: ENL-HL1201
PM: Lydia Greaves

Client PM: Jonathan Dee Hager
Client PO: H12973

Sample Containers

Lab ID: 1439012-01 **Report Matrix:** DIW **Collected:** 09/16/2014
Sample: H14090349-002F **Sample Type:** Field Blank **Received:** 09/23/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0106	2mL 6N HCl (PP)	1434013	<2	Cooler

Lab ID: 1439012-02 **Report Matrix:** Water **Collected:** 09/16/2014
Sample: H14090349-003F **Sample Type:** Sample **Received:** 09/23/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0106	2mL 6N HCl (PP)	1434013	<2	Cooler

Lab ID: 1439012-03 **Report Matrix:** Water **Collected:** 09/16/2014
Sample: H14090349-004F **Sample Type:** Field Duplicate **Received:** 09/23/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0106	2mL 6N HCl (PP)	1434013	<2	Cooler

Lab ID: 1439012-04 **Report Matrix:** Water **Collected:** 09/16/2014
Sample: H14090349-016B **Sample Type:** Sample **Received:** 09/23/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0106	2mL 6N HCl (PP)	1434013	<2	Cooler

Lab ID: 1439012-05 **Report Matrix:** DIW **Collected:** 09/16/2014
Sample: H14090349-017A **Sample Type:** Trip Blank **Received:** 09/23/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0106	2mL 6N HCl (PP)	1434013	<2	Cooler

Shipping Containers

Cooler

Received: September 23, 2014 9:30
Tracking No: 1Z37EW970152316719 via UPS
Coolant Type: Ice
Temperature: 1.7 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

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1439012

Energy Laboratories Inc
3161 East Lyndale Avenue
Helena, MT 59601
(406) 442-0711

H14090349

CHAIN-OF-CUSTODY RECORD

Custody Seal: Y N
Intacted: Y N
Signature Match: Y N

Shipped By: _____
Receipt Temp: _____

Subcontractor:
Brooks Rand Labs
3958 6th Ave NW
Seattle, WA 98106
TEL: (206) 632-6206 FAX: (206) 632-6017
Acct #:

Subcontractor's Client:

Rush	Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests: SUB-BROOKSRAND
☐	H14090349-002F	Aqueous	09/16/14 12:45 P	1-CLIENT-SLD	1
☐	H14090349-003F	Aqueous	09/16/14 01:00 P	1-CLIENT-SLD	1
☐	H14090349-004F	Aqueous	09/16/14 01:00 P	1-CLIENT-SLD	1
☐	H14090349-016B	Aqueous	09/16/14 11:30 A	1-CLIENT-SLD	1
☐	H14090349-017A	Aqueous	09/16/14 09:00 A	1-CLIENT-SLD	1

Earliest Due Date: 10/2/2014

Comments: PO# H12973

QC Level:
STD

		Date/Time		
Relinquished by:	[signature]	9/23/14 0930	**Received by:**	Cori Ulitt
Relinquished by:	[signature]	9/19/14 11:30	**Received by:**	

Workorder Receipt Checklist

MT DEQ-Federal Superfund

H14090349

Login completed by: Tracy L. Lorash
Date Received: 9/18/2014
Reviewed by: BL2000\sdull
Received by: abb
Reviewed Date: 9/23/2014
Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	°C See comments		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Per Erich's conversation with Amanda, we are to analyze sediments as historical.
Sample ID on COC is LBR-CFR-02 -ID on bottles is LBR-CFR. Logged in with ID from COC.
Sample ID on COC is FC-CFR duplicate -ID on 500 mL bottle is FC=CFR-duplicate. Logged in with ID from COC.
Cooler 1 was received at 4.6°C, Cooler 2 at 0.9°C, Cooler 3 at 0.7°C, Cooler 4 at 1.2°C. Samples were received on wet ice. Sediments were in Cooler 1. TI 9/19/14

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via Respec)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required):
erich.weber@respec.com
joe.naughton@respec.com
gary.ingman@respec.com
bequinones@mt.gov
☐ No Hard Copy Email:

Contact Name: Ben Quinones, Erich Weber
Phone/~~Fax~~: 406.841.5709, 506.1546
Cell: 439-0563

Sampler: (Please Print) J. Naughton, H. McAdams, E. Weber

Invoice Contact & Phone: Ben Quinones 406.841.5709

Purchase Order:

Quote/Bottle Order: H958 / 15703

Invoice Address (Required):
MT DEQ
P.O. Box 200901
Helena, MT 59620-0901
☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids
Vegetation Bioassay Other
DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT) → RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: Sieve sediment for <0.063mm fraction only, analyze for Total Metals as dry weight

Shipped by: hand del.
Cooler ID(s): 4
Receipt Temp: see comments
On Ice: (Y) N
Custody Seal: On Bottle Y (N); On Cooler Y (N)
Intact: Y N
Signature Match: Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TRAs, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^{2-}, Cl^-	Hardness (TR Ca + Mg)	DOC	Tot. As, Cd, Cu, Pb, Zn (p.u.)	SEE ATTACHED	Standard Turnaround (TAT)	RUSH	Comments
C1 1	CFR-116A	9-16-2014	0900	GW, IS	X	X	X	X	X	X	X	X	X				Sediment 4.6 TB
2	Field Blank #1	9-16-2014	12:45	GW													C1 0.9
3	FC-CFR	9-16-2014	13:00	GW, IS									X				C2 0.7
4	FC-CFR duplicate	9-16-2014	13:00	GW, IS													C3 1.2
5	LBR-CFR-02	9-16-2014	14:30	GW, IS													
C2 6	CFR-27H	9-16-2014	16:30	GW, IS													
C1 7	CFR-11F	9-16-2014	17:30	GW, IS													
C2 8	CFR-07D	9-17-2014	09:15	GW, IS													
C2 9	CFR-03A	9-17-2014	10:30	GW, IS													
C2 10	WSC-SBC	9-17-2014	11:15	GW, IS													

LABORATORY USE ONLY: H14090349

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 9-18-2014 14:05 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Amanda Blackburn Date/Time: 9/18/14 14:05 Signature: Amanda Blackburn

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via Respec)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) J. Naughton, E. Webber, H. McAdams

☐ No Hard Copy Email:

Invoice Contact & Phone: see page 1

Purchase Order:

Quote/Bottle Order: 4958/15703

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Shipped by: hand del.
Cooler ID(s): 4
Receipt Temp: see comments
On Ice: Y N
Custody Seal: On Bottle Y N; On Cooler Y N
Intact Y N
Signature Match Y N

Comments: Sieve sediment for <0.063mm fraction only, analyze for Total Metals as dry weight.

Sediment 4.6 TB
C_1 0.9
C_2 0.7
C_3 1.2

LABORATORY USE ONLY: H14090349

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TPN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^-, Cl^-	Hardness (TR Ca + Mg)	DOC	Tot. Ag, Cd, Cu, Pb, Zn (0.1u)	SEE ATTACHED
C3 1	SS-25	9-17-2014	12:30	6W, 1S	X	X	X	X	X	X	X	X	X	
C3 2	MWB-SBC	9-17-2014	13:15	6W, 1S										
C3 3	Field Blank #2	9-17-2014	14:15	6W	X	X	X	X	X	X	X	X		
C3 4	MCWC-MWB	9-17-2014	14:45	6W, 1S									X	
C3 5	MCWC-MWB duplicate	9-17-2014	14:45	6W, 1S										
6	LC-7.5	9-17-2014	16:00	1S										
7	RTC-1.5	9-17-2014	16:45	1S										
8														
9														
10														

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 9-18-2014 14:05 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Amanda Blackburn Date/Time: 9/18/14 14:05 Signature: Amanda Blackburn

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via Respec)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) J. Naughton, H. McAdams, E. Weber

☐ No Hard Copy Email:

Invoice Contact & Phone: See page 1

Purchase Order:

Quote/Bottle Order: H958/15703

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

ANALYSIS REQUESTED

Standard Turnaround (TAT) — RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: Mandel

Cooler ID(s): 4

Receipt Temp: See comments

On Ice: Y N

Custody Seal: On Bottle Y N; On Cooler Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	Total Hg (Low level)	Methyl Hg (Contract)	SEE ATTACHED	Comments
1	CFR-84F	9-16-2014	11:30	2W	X	X		separate sample for Total Hg
2	Field Blank #1	9-16-2014	12:45	1W				Total Hg from TR metals
3	FC-CFR	9-16-2014	13:00	1W				Total Hg from TR metals
4	FC-CFR duplicate	9-16-2014	13:00	1W				Total Hg from TR metals
5								
6								
7								Sediment 4.6 TB
8								C_1 - 0.9
9								C_2 - 0.7
10								C_3 - 1.2

LABORATORY USE ONLY: H14090349

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 9-18-2014 14:05 Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Amanda Blackburn Date/Time: 9/18/14 14:05 Signature: Amanda Blackburn

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, QA/QC

APPENDIX B4

ANALYTICAL LABORATORY RESULTS
4TH QUARTER MONITORING

ANALYTICAL SUMMARY REPORT

January 07, 2015

MT DEQ-Federal Superfund
PO Box 200901
Helena, MT 59620-0901

Work Order: H14120106 Quote ID: H958

Project Name: CFR Monitoring-474374

Energy Laboratories Inc Helena MT received the following 16 samples for MT DEQ-Federal Superfund on 12/5/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H14120106-001	CFR-116A	12/01/14 9:30	12/05/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14120106-002	Field Blank #1	12/01/14 12:00	12/05/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Mercury, Total Recoverable Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Mercury by CVAA Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended Subcontracted, Analytics
H14120106-003	FC-CFR	12/01/14 13:00	12/05/14	Aqueous	Same As Above
H14120106-004	FC-CFR Duplicate	12/01/14 13:00	12/05/14	Aqueous	Same As Above

ANALYTICAL SUMMARY REPORT

H14120106-005	LBR-CFR-02	12/01/14 14:00	12/05/14	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Tot. Rec. Alkalinity Carbon, Dissolved Organic Conductivity Hardness as CaCO3 Anions by Ion Chromatography Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Nitrogen, Total Persulfate Metals Digestion by EPA 200.2 Digestion, Total P Water Nitrogen, Total Persulfate Phosphorus, Total Solids, Total Suspended
H14120106-006	CFR-27H	12/01/14 16:00	12/05/14	Aqueous	Same As Above
H14120106-007	CFR-11F	12/02/14 9:00	12/05/14	Aqueous	Same As Above
H14120106-008	CFR-07D	12/02/14 11:00	12/05/14	Aqueous	Same As Above
H14120106-009	CFR-03A	12/02/14 12:15	12/05/14	Aqueous	Same As Above
H14120106-010	WSC-SBC	12/02/14 12:45	12/05/14	Aqueous	Same As Above
H14120106-011	SS-25	12/02/14 13:45	12/05/14	Aqueous	Same As Above
H14120106-012	MWB-SBC	12/02/14 14:30	12/05/14	Aqueous	Same As Above
H14120106-013	Field Blank #2	12/02/14 15:30	12/05/14	Aqueous	Same As Above
H14120106-014	MCWC-MWB	12/02/14 16:00	12/05/14	Aqueous	Same As Above
H14120106-015	MCWC-MWB Duplicate	12/02/14 16:00	12/05/14	Aqueous	Same As Above
H14120106-016	CFR-84F	12/01/14 10:45	12/05/14	Aqueous	Mercury, Total Recoverable Digestion, Mercury by CVAA Subcontracted, Analytics

The analyses presented in this report were performed by Energy Laboratories, Inc., 3161 E. Lyndale Ave., Helena, MT 59604, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: MT DEQ-Federal Superfund
Project: CFR Monitoring-474374
Work Order: H14120106

Report Date: 01/07/15

CASE NARRATIVE

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

Samples for Methyl Mercury were submitted to BrooksRand Laboratories. The report is attached. Wj 1/7/15

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14120106-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 09:30 **DateReceived:** 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	7	mg/L		1		A2540 D	12/05/14 14:16 / SR		I24 (14410200)_141205A	11	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	12/09/14 13:03 / SR		PHSC_101-H_141209A	24	R102712
Bicarbonate as HCO3	160	mg/L		4		A2320 B	12/09/14 13:03 / SR		PHSC_101-H_141209A	24	R102712
Chloride	4	mg/L		1		E300.0	12/08/14 13:42 / SR		IC102-H_141208A	28	R102706
Sulfate	45	mg/L		1		E300.0	12/08/14 13:42 / SR		IC102-H_141208A	28	R102706
Hardness as CaCO3	162	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	1	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.7	mg/L		0.5		A5310 C	12/11/14 22:11 / eli-c		SUB-C194275	7	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:29 / cm		FIA203-HE_141208C	25	R102707
Nitrogen, Nitrate+Nitrite as N	0.17	mg/L		0.05		E353.2	12/08/14 11:17 / cm		FIA203-HE_141208A	28	R102687
Nitrogen, Total	0.46	mg/L		0.05		A4500 N-C	12/10/14 16:02 / cm	12/09/14 08:09	FIA203-HE_141210C	15	27321
Phosphorus, Total as P	0.037	mg/L		0.005		E365.1	12/08/14 14:25 / cm	12/08/14 13:28	FIA202-HE_141208A	33	27310
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	12/09/14 22:43 / dck		ICPMS204-B_141209B	108	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/09/14 22:43 / dck		ICPMS204-B_141209B	108	R102739
Copper	0.004	mg/L		0.001		E200.8	12/09/14 22:43 / dck		ICPMS204-B_141209B	108	R102739
Lead	ND	mg/L		0.0003		E200.8	12/09/14 22:43 / dck		ICPMS204-B_141209B	108	R102739
Zinc	0.009	mg/L		0.008		E200.8	12/09/14 22:43 / dck		ICPMS204-B_141209B	108	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.007	mg/L		0.001		E200.8	12/09/14 23:11 / dck	12/08/14 08:42	ICPMS204-B_141209B	114	27296
Cadmium	0.00006	mg/L		0.00003		E200.8	12/09/14 23:11 / dck	12/08/14 08:42	ICPMS204-B_141209B	114	27296
Calcium	46	mg/L		1		E200.7	12/09/14 13:20 / sld	12/08/14 08:42	ICP2-HE_141209B	36	27296
Copper	0.009	mg/L		0.001		E200.8	12/09/14 23:11 / dck	12/08/14 08:42	ICPMS204-B_141209B	114	27296
Lead	0.0010	mg/L		0.0003		E200.8	12/09/14 23:11 / dck	12/08/14 08:42	ICPMS204-B_141209B	114	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-116A
Lab ID: H14120106-001
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 09:30
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	12	mg/L		1		E200.7	12/09/14 13:20 / sld	12/08/14 08:42	ICP2-HE_141209B	36	27296
Zinc	0.015	mg/L		0.008		E200.8	12/09/14 23:11 / dck	12/08/14 08:42	ICPMS204-B_141209B	114	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14120106-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 12:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	12/05/14 14:16 / SR		I24 (14410200)_141205A	12	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	12/09/14 13:14 / SR		PHSC_101-H_141209A	28	R102712
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	12/09/14 13:14 / SR		PHSC_101-H_141209A	28	R102712
Chloride	ND	mg/L		1		E300.0	12/08/14 13:53 / SR		IC102-H_141208A	29	R102706
Sulfate	ND	mg/L		1		E300.0	12/08/14 13:53 / SR		IC102-H_141208A	29	R102706
Hardness as CaCO3	ND	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	2	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	0.5	mg/L		0.5		A5310 C	12/11/14 22:25 / eli-c		SUB-C194275	8	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:33 / cm		FIA203-HE_141208C	28	R102707
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	12/08/14 11:20 / cm		FIA203-HE_141208A	31	R102687
Nitrogen, Total	ND	mg/L		0.05		A4500 N-C	12/10/14 16:03 / cm	12/09/14 08:09	FIA203-HE_141210C	16	27321
Phosphorus, Total as P	ND	mg/L		0.005		E365.1	12/08/14 14:26 / cm	12/08/14 13:28	FIA202-HE_141208A	34	27310
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	12/09/14 23:51 / dck		ICPMS204-B_141209B	123	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/09/14 23:51 / dck		ICPMS204-B_141209B	123	R102739
Copper	ND	mg/L		0.001		E200.8	12/09/14 23:51 / dck		ICPMS204-B_141209B	123	R102739
Lead	ND	mg/L		0.0003		E200.8	12/09/14 23:51 / dck		ICPMS204-B_141209B	123	R102739
Zinc	0.009	mg/L		0.008		E200.8	12/09/14 23:51 / dck		ICPMS204-B_141209B	123	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	12/09/14 23:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	124	27296
Cadmium	ND	mg/L		0.00003		E200.8	12/09/14 23:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	124	27296
Calcium	ND	mg/L		1		E200.7	12/09/14 13:35 / sld	12/08/14 08:42	ICP2-HE_141209B	40	27296
Copper	ND	mg/L		0.001		E200.8	12/09/14 23:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	124	27296
Lead	ND	mg/L		0.0003		E200.8	12/09/14 23:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	124	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #1
Lab ID: H14120106-002
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 12:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	12/09/14 13:35 / sld	12/08/14 08:42	ICP2-HE_141209B	40	27296
Mercury	ND	mg/L		5E-06		E245.1	12/11/14 16:52 / rgk	12/09/14 09:43	HGCV202-H_141211A	79	27324
Zinc	ND	mg/L		0.008		E200.8	12/09/14 23:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	124	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14120106-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 13:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		1		A2540 D	12/05/14 14:16 / SR		I24 (14410200)_141205A	13	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	180	mg/L		4		A2320 B	12/09/14 13:18 / SR		PHSC_101-H_141209A	30	R102712
Bicarbonate as HCO3	220	mg/L		4		A2320 B	12/09/14 13:18 / SR		PHSC_101-H_141209A	30	R102712
Chloride	4	mg/L		1		E300.0	12/08/14 14:04 / SR		IC102-H_141208A	30	R102706
Sulfate	16	mg/L		1		E300.0	12/08/14 14:04 / SR		IC102-H_141208A	30	R102706
Hardness as CaCO3	170	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	3	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.3	mg/L		0.5		A5310 C	12/11/14 22:41 / eli-c		SUB-C194275	9	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:34 / cm		FIA203-HE_141208C	29	R102707
Nitrogen, Nitrate+Nitrite as N	0.21	mg/L		0.05		E353.2	12/08/14 11:21 / cm		FIA203-HE_141208A	32	R102687
Nitrogen, Total	0.50	mg/L		0.05		A4500 N-C	12/10/14 16:07 / cm	12/09/14 08:09	FIA203-HE_141210C	19	27321
Phosphorus, Total as P	0.046	mg/L		0.005		E365.1	12/08/14 14:29 / cm	12/08/14 13:28	FIA202-HE_141208A	37	27310
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	12/10/14 00:01 / dck		ICPMS204-B_141209B	125	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 00:01 / dck		ICPMS204-B_141209B	125	R102739
Copper	ND	mg/L		0.001		E200.8	12/10/14 00:01 / dck		ICPMS204-B_141209B	125	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 00:01 / dck		ICPMS204-B_141209B	125	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 00:01 / dck		ICPMS204-B_141209B	125	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.007	mg/L		0.001		E200.8	12/10/14 00:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	126	27296
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 00:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	126	27296
Calcium	46	mg/L		1		E200.7	12/09/14 13:39 / sld	12/08/14 08:42	ICP2-HE_141209B	41	27296
Copper	0.002	mg/L		0.001		E200.8	12/10/14 00:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	126	27296
Lead	0.0020	mg/L		0.0003		E200.8	12/10/14 00:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	126	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR
Lab ID: H14120106-003
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 13:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	14	mg/L		1		E200.7	12/09/14 13:39 / sld	12/08/14 08:42	ICP2-HE_141209B	41	27296
Mercury	0.00019	mg/L		5E-06		E245.1	12/11/14 16:56 / rgk	12/09/14 09:43	HGCV202-H_141211A	80	27324
Zinc	ND	mg/L		0.008		E200.8	12/10/14 00:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	126	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14120106-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 13:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	8	mg/L		2		A2540 D	12/05/14 14:16 / SR		I24 (14410200)_141205A	14	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	180	mg/L		4		A2320 B	12/09/14 13:24 / SR		PHSC_101-H_141209A	32	R102712
Bicarbonate as HCO3	210	mg/L		4		A2320 B	12/09/14 13:24 / SR		PHSC_101-H_141209A	32	R102712
Chloride	4	mg/L		1		E300.0	12/08/14 14:37 / SR		IC102-H_141208A	33	R102706
Sulfate	16	mg/L		1		E300.0	12/08/14 14:37 / SR		IC102-H_141208A	33	R102706
Hardness as CaCO3	169	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	4	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.3	mg/L		0.5		A5310 C	12/11/14 23:01 / eli-c		SUB-C194275	10	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:35 / cm		FIA203-HE_141208C	30	R102707
Nitrogen, Nitrate+Nitrite as N	0.20	mg/L		0.05		E353.2	12/08/14 11:23 / cm		FIA203-HE_141208A	33	R102687
Nitrogen, Total	0.40	mg/L		0.05		A4500 N-C	12/10/14 16:08 / cm	12/09/14 08:09	FIA203-HE_141210C	20	27321
Phosphorus, Total as P	0.048	mg/L		0.005		E365.1	12/08/14 14:30 / cm	12/08/14 13:28	FIA202-HE_141208A	38	27310
METALS, DISSOLVED											
Arsenic	0.006	mg/L		0.001		E200.8	12/10/14 00:10 / dck		ICPMS204-B_141209B	127	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 00:10 / dck		ICPMS204-B_141209B	127	R102739
Copper	ND	mg/L		0.001		E200.8	12/10/14 00:10 / dck		ICPMS204-B_141209B	127	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 00:10 / dck		ICPMS204-B_141209B	127	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 00:10 / dck		ICPMS204-B_141209B	127	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.007	mg/L		0.001		E200.8	12/10/14 00:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	128	27296
Cadmium	ND	mg/L	D	0.00004		E200.8	12/10/14 00:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	128	27296
Calcium	45	mg/L		1		E200.7	12/09/14 13:43 / sld	12/08/14 08:42	ICP2-HE_141209B	42	27296
Copper	0.007	mg/L		0.001		E200.8	12/10/14 00:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	128	27296
Lead	0.0016	mg/L		0.0003		E200.8	12/10/14 00:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	128	27296

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: FC-CFR Duplicate
Lab ID: H14120106-004
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 13:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	14	mg/L		1		E200.7	12/09/14 13:43 / sld	12/08/14 08:42	ICP2-HE_141209B	42	27296
Mercury	0.00012	mg/L		5E-06		E245.1	12/12/14 13:19 / rgk	12/10/14 12:59	HGCV202-H_141212A	13	27352
Zinc	0.009	mg/L		0.008		E200.8	12/10/14 00:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	128	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14120106-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 14:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	12/05/14 14:17 / SR		I24 (14410200)_141205A	16	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	12/09/14 13:30 / SR		PHSC_101-H_141209A	34	R102712
Bicarbonate as HCO3	160	mg/L		4		A2320 B	12/09/14 13:30 / SR		PHSC_101-H_141209A	34	R102712
Chloride	2	mg/L		1		E300.0	12/08/14 15:11 / SR		IC102-H_141208A	36	R102706
Sulfate	13	mg/L		1		E300.0	12/08/14 15:11 / SR		IC102-H_141208A	36	R102706
Hardness as CaCO3	131	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	5	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.1	mg/L		0.5		A5310 C	12/11/14 23:18 / eli-c		SUB-C194275	11	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:36 / cm		FIA203-HE_141208C	31	R102707
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	12/08/14 11:24 / cm		FIA203-HE_141208A	34	R102687
Nitrogen, Total	0.20	mg/L		0.05		A4500 N-C	12/10/14 16:09 / cm	12/09/14 08:09	FIA203-HE_141210C	21	27321
Phosphorus, Total as P	0.034	mg/L		0.005		E365.1	12/08/14 15:44 / cm	12/08/14 13:30	FIA202-HE_141208A	109	27311
METALS, DISSOLVED											
Arsenic	0.004	mg/L		0.001		E200.8	12/10/14 00:19 / dck		ICPMS204-B_141209B	129	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 00:19 / dck		ICPMS204-B_141209B	129	R102739
Copper	ND	mg/L		0.001		E200.8	12/10/14 00:19 / dck		ICPMS204-B_141209B	129	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 00:19 / dck		ICPMS204-B_141209B	129	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 00:19 / dck		ICPMS204-B_141209B	129	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.004	mg/L		0.001		E200.8	12/10/14 00:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	135	27296
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 00:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	135	27296
Calcium	38	mg/L		1		E200.7	12/09/14 13:47 / sld	12/08/14 08:42	ICP2-HE_141209B	43	27296
Copper	ND	mg/L		0.001		E200.8	12/10/14 00:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	135	27296
Lead	ND	mg/L		0.0003		E200.8	12/10/14 00:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	135	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: LBR-CFR-02
Lab ID: H14120106-005
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 14:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	9	mg/L		1		E200.7	12/09/14 13:47 / sld	12/08/14 08:42	ICP2-HE_141209B	43	27296
Zinc	ND	mg/L		0.008		E200.8	12/10/14 00:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	135	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14120106-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 16:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	18	mg/L		1		A2540 D	12/05/14 14:17 / SR		I24 (14410200)_141205A	17	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	170	mg/L		4		A2320 B	12/09/14 13:36 / SR		PHSC_101-H_141209A	36	R102712
Bicarbonate as HCO3	210	mg/L		4		A2320 B	12/09/14 13:36 / SR		PHSC_101-H_141209A	36	R102712
Chloride	10	mg/L		1		E300.0	12/08/14 15:22 / SR		IC102-H_141208A	37	R102706
Sulfate	100	mg/L		1		E300.0	12/08/14 15:22 / SR		IC102-H_141208A	37	R102706
Hardness as CaCO3	254	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	6	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.0	mg/L		0.5		A5310 C	12/11/14 23:35 / eli-c		SUB-C194275	12	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:37 / cm		FIA203-HE_141208C	32	R102707
Nitrogen, Nitrate+Nitrite as N	0.44	mg/L		0.05		E353.2	12/08/14 11:25 / cm		FIA203-HE_141208A	35	R102687
Nitrogen, Total	0.82	mg/L		0.05		A4500 N-C	12/10/14 16:10 / cm	12/09/14 08:09	FIA203-HE_141210C	22	27321
Phosphorus, Total as P	0.031	mg/L		0.005		E365.1	12/08/14 15:45 / cm	12/08/14 13:30	FIA202-HE_141208A	110	27311
METALS, DISSOLVED											
Arsenic	0.012	mg/L		0.001		E200.8	12/10/14 00:51 / dck		ICPMS204-B_141209B	136	R102739
Cadmium	0.00005	mg/L		0.00003		E200.8	12/10/14 00:51 / dck		ICPMS204-B_141209B	136	R102739
Copper	0.007	mg/L		0.001		E200.8	12/10/14 00:51 / dck		ICPMS204-B_141209B	136	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 00:51 / dck		ICPMS204-B_141209B	136	R102739
Zinc	0.013	mg/L		0.008		E200.8	12/10/14 00:51 / dck		ICPMS204-B_141209B	136	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.014	mg/L		0.001		E200.8	12/10/14 00:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	137	27296
Cadmium	0.00013	mg/L		0.00003		E200.8	12/10/14 00:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	137	27296
Calcium	74	mg/L		1		E200.7	12/09/14 13:58 / sld	12/08/14 08:42	ICP2-HE_141209B	46	27296
Copper	0.024	mg/L		0.001		E200.8	12/10/14 00:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	137	27296
Lead	0.0026	mg/L		0.0003		E200.8	12/10/14 00:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	137	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-27H
Lab ID: H14120106-006
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 16:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	17	mg/L		1		E200.7	12/09/14 13:58 / sld	12/08/14 08:42	ICP2-HE_141209B	46	27296
Zinc	0.027	mg/L		0.008		E200.8	12/10/14 00:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	137	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14120106-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 09:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	5	mg/L		1		A2540 D	12/05/14 14:18 / SR		I24 (14410200)_141205A	18	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	170	mg/L		4		A2320 B	12/09/14 13:41 / SR		PHSC_101-H_141209A	38	R102712
Bicarbonate as HCO3	210	mg/L		4		A2320 B	12/09/14 13:41 / SR		PHSC_101-H_141209A	38	R102712
Chloride	10	mg/L		1		E300.0	12/08/14 15:33 / SR		IC102-H_141208A	38	R102706
Sulfate	130	mg/L		1		E300.0	12/08/14 15:33 / SR		IC102-H_141208A	38	R102706
Hardness as CaCO3	272	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	7	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.8	mg/L		0.5		A5310 C	12/11/14 23:51 / eli-c		SUB-C194275	13	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:38 / cm		FIA203-HE_141208C	33	R102707
Nitrogen, Nitrate+Nitrite as N	0.32	mg/L		0.05		E353.2	12/08/14 11:26 / cm		FIA203-HE_141208A	36	R102687
Nitrogen, Total	0.66	mg/L		0.05		A4500 N-C	12/10/14 16:11 / cm	12/09/14 08:09	FIA203-HE_141210C	23	27321
Phosphorus, Total as P	0.024	mg/L		0.005		E365.1	12/08/14 15:46 / cm	12/08/14 13:30	FIA202-HE_141208A	111	27311
METALS, DISSOLVED											
Arsenic	0.011	mg/L		0.001		E200.8	12/10/14 01:01 / dck		ICPMS204-B_141209B	138	R102739
Cadmium	0.00005	mg/L		0.00003		E200.8	12/10/14 01:01 / dck		ICPMS204-B_141209B	138	R102739
Copper	0.005	mg/L		0.001		E200.8	12/10/14 01:01 / dck		ICPMS204-B_141209B	138	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 01:01 / dck		ICPMS204-B_141209B	138	R102739
Zinc	0.012	mg/L		0.008		E200.8	12/10/14 01:01 / dck		ICPMS204-B_141209B	138	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	12/10/14 01:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	139	27296
Cadmium	0.00007	mg/L	D	0.00004		E200.8	12/10/14 01:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	139	27296
Calcium	79	mg/L		1		E200.7	12/09/14 14:01 / sld	12/08/14 08:42	ICP2-HE_141209B	47	27296
Copper	0.009	mg/L		0.001		E200.8	12/10/14 01:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	139	27296
Lead	0.0007	mg/L		0.0003		E200.8	12/10/14 01:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	139	27296

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-11F
Lab ID: H14120106-007
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 09:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	18	mg/L		1		E200.7	12/09/14 14:01 / sld	12/08/14 08:42	ICP2-HE_141209B	47	27296
Zinc	0.015	mg/L		0.008		E200.8	12/10/14 01:05 / dck	12/08/14 08:42	ICPMS204-B_141209B	139	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14120106-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 11:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	12/05/14 14:18 / SR		I24 (14410200)_141205A	19	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	160	mg/L		4		A2320 B	12/09/14 13:47 / SR		PHSC_101-H_141209A	40	R102712
Bicarbonate as HCO3	190	mg/L		4		A2320 B	12/09/14 13:47 / SR		PHSC_101-H_141209A	40	R102712
Chloride	10	mg/L		1		E300.0	12/08/14 15:44 / SR		IC102-H_141208A	39	R102706
Sulfate	120	mg/L		1		E300.0	12/08/14 15:44 / SR		IC102-H_141208A	39	R102706
Hardness as CaCO3	259	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	8	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.7	mg/L		0.5		A5310 C	12/12/14 00:08 / eli-c		SUB-C194275	14	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:40 / cm		FIA203-HE_141208C	34	R102707
Nitrogen, Nitrate+Nitrite as N	0.31	mg/L		0.05		E353.2	12/08/14 11:27 / cm		FIA203-HE_141208A	37	R102687
Nitrogen, Total	0.70	mg/L		0.05		A4500 N-C	12/10/14 16:13 / cm	12/09/14 08:09	FIA203-HE_141210C	24	27321
Phosphorus, Total as P	0.023	mg/L		0.005		E365.1	12/08/14 15:47 / cm	12/08/14 13:30	FIA202-HE_141208A	112	27311
METALS, DISSOLVED											
Arsenic	0.011	mg/L		0.001		E200.8	12/10/14 01:10 / dck		ICPMS204-B_141209B	140	R102739
Cadmium	0.00004	mg/L		0.00003		E200.8	12/10/14 01:10 / dck		ICPMS204-B_141209B	140	R102739
Copper	0.004	mg/L		0.001		E200.8	12/10/14 01:10 / dck		ICPMS204-B_141209B	140	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 01:10 / dck		ICPMS204-B_141209B	140	R102739
Zinc	0.012	mg/L		0.008		E200.8	12/10/14 01:10 / dck		ICPMS204-B_141209B	140	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	12/10/14 01:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	141	27296
Cadmium	0.00007	mg/L	D	0.00004		E200.8	12/10/14 01:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	141	27296
Calcium	75	mg/L		1		E200.7	12/09/14 14:05 / sld	12/08/14 08:42	ICP2-HE_141209B	48	27296
Copper	0.008	mg/L		0.001		E200.8	12/10/14 01:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	141	27296
Lead	0.0008	mg/L		0.0003		E200.8	12/10/14 01:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	141	27296

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-07D
Lab ID: H14120106-008
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 11:00 **DateReceived:** 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	17	mg/L		1		E200.7	12/09/14 14:05 / sld	12/08/14 08:42	ICP2-HE_141209B	48	27296
Zinc	0.015	mg/L		0.008		E200.8	12/10/14 01:14 / dck	12/08/14 08:42	ICPMS204-B_141209B	141	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14120106-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 12:15
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	4	mg/L		1		A2540 D	12/05/14 14:18 / SR		I24 (14410200)_141205A	20	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	12/09/14 13:53 / SR		PHSC_101-H_141209A	42	R102712
Bicarbonate as HCO3	170	mg/L		4		A2320 B	12/09/14 13:53 / SR		PHSC_101-H_141209A	42	R102712
Chloride	13	mg/L		1		E300.0	12/08/14 15:55 / SR		IC102-H_141208A	40	R102706
Sulfate	120	mg/L		1		E300.0	12/08/14 15:55 / SR		IC102-H_141208A	40	R102706
Hardness as CaCO3	237	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	9	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.0	mg/L		0.5		A5310 C	12/12/14 01:19 / eli-c		SUB-C194275	16	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:41 / cm		FIA203-HE_141208C	35	R102707
Nitrogen, Nitrate+Nitrite as N	0.20	mg/L		0.05		E353.2	12/08/14 11:29 / cm		FIA203-HE_141208A	38	R102687
Nitrogen, Total	0.64	mg/L		0.05		A4500 N-C	12/10/14 16:14 / cm	12/09/14 08:09	FIA203-HE_141210C	25	27321
Phosphorus, Total as P	0.032	mg/L		0.005		E365.1	12/08/14 15:48 / cm	12/08/14 13:30	FIA202-HE_141208A	113	27311
METALS, DISSOLVED											
Arsenic	0.010	mg/L		0.001		E200.8	12/10/14 01:19 / dck		ICPMS204-B_141209B	142	R102739
Cadmium	0.00005	mg/L		0.00003		E200.8	12/10/14 01:19 / dck		ICPMS204-B_141209B	142	R102739
Copper	0.004	mg/L		0.001		E200.8	12/10/14 01:19 / dck		ICPMS204-B_141209B	142	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 01:19 / dck		ICPMS204-B_141209B	142	R102739
Zinc	0.013	mg/L		0.008		E200.8	12/10/14 01:19 / dck		ICPMS204-B_141209B	142	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.012	mg/L		0.001		E200.8	12/10/14 01:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	143	27296
Cadmium	0.00009	mg/L		0.00003		E200.8	12/10/14 01:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	143	27296
Calcium	68	mg/L		1		E200.7	12/09/14 14:09 / sld	12/08/14 08:42	ICP2-HE_141209B	49	27296
Copper	0.009	mg/L		0.001		E200.8	12/10/14 01:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	143	27296
Lead	0.0011	mg/L		0.0003		E200.8	12/10/14 01:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	143	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-03A
Lab ID: H14120106-009
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 12:15
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	16	mg/L		1		E200.7	12/09/14 14:09 / sld	12/08/14 08:42	ICP2-HE_141209B	49	27296
Zinc	0.019	mg/L		0.008		E200.8	12/10/14 01:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	143	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14120106-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 12:45
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	5	mg/L		1		A2540 D	12/05/14 14:18 / SR		I24 (14410200)_141205A	21	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		4		A2320 B	12/09/14 13:58 / SR		PHSC_101-H_141209A	44	R102712
Bicarbonate as HCO3	170	mg/L		4		A2320 B	12/09/14 13:58 / SR		PHSC_101-H_141209A	44	R102712
Chloride	1	mg/L		1		E300.0	12/08/14 16:06 / SR		IC102-H_141208A	41	R102706
Sulfate	40	mg/L		1		E300.0	12/08/14 16:06 / SR		IC102-H_141208A	41	R102706
Hardness as CaCO3	173	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	10	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.1	mg/L		0.5		A5310 C	12/12/14 01:36 / eli-c		SUB-C194275	17	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:42 / cm		FIA203-HE_141208C	36	R102707
Nitrogen, Nitrate+Nitrite as N	0.13	mg/L		0.05		E353.2	12/08/14 11:30 / cm		FIA203-HE_141208A	39	R102687
Nitrogen, Total	0.16	mg/L		0.05		A4500 N-C	12/11/14 08:40 / cm	12/09/14 08:09	FIA203-HE_141211A	13	27321
Phosphorus, Total as P	0.015	mg/L		0.005		E365.1	12/08/14 15:49 / cm	12/08/14 13:30	FIA202-HE_141208A	114	27311
METALS, DISSOLVED											
Arsenic	0.005	mg/L		0.001		E200.8	12/10/14 01:28 / dck		ICPMS204-B_141209B	144	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 01:28 / dck		ICPMS204-B_141209B	144	R102739
Copper	0.002	mg/L		0.001		E200.8	12/10/14 01:28 / dck		ICPMS204-B_141209B	144	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 01:28 / dck		ICPMS204-B_141209B	144	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 01:28 / dck		ICPMS204-B_141209B	144	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.006	mg/L		0.001		E200.8	12/10/14 01:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	148	27296
Cadmium	ND	mg/L	D	0.00004		E200.8	12/10/14 01:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	148	27296
Calcium	52	mg/L		1		E200.7	12/09/14 14:13 / sld	12/08/14 08:42	ICP2-HE_141209B	50	27296
Copper	0.008	mg/L		0.001		E200.8	12/10/14 01:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	148	27296
Lead	0.0005	mg/L		0.0003		E200.8	12/10/14 01:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	148	27296

Report Definitions:
RL - Analyte reporting limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: WSC-SBC
Lab ID: H14120106-010
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 12:45
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	10	mg/L		1		E200.7	12/09/14 14:13 / sld	12/08/14 08:42	ICP2-HE_141209B	50	27296
Zinc	ND	mg/L		0.008		E200.8	12/10/14 01:47 / dck	12/08/14 08:42	ICPMS204-B_141209B	148	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14120106-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 13:45
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	2	mg/L		1		A2540 D	12/05/14 14:19 / SR		I24 (14410200)_141205A	22	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	12/09/14 14:09 / SR		PHSC_101-H_141209A	48	R102712
Bicarbonate as HCO3	150	mg/L		4		A2320 B	12/09/14 14:09 / SR		PHSC_101-H_141209A	48	R102712
Chloride	21	mg/L		1		E300.0	12/08/14 16:17 / SR		IC102-H_141208A	42	R102706
Sulfate	140	mg/L		1		E300.0	12/08/14 16:17 / SR		IC102-H_141208A	42	R102706
Hardness as CaCO3	243	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	11	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	3.7	mg/L		0.5		A5310 C	12/12/14 01:59 / eli-c		SUB-C194275	18	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	0.05	mg/L		0.05		E350.1	12/08/14 15:46 / cm		FIA203-HE_141208C	39	R102707
Nitrogen, Nitrate+Nitrite as N	0.26	mg/L		0.05		E353.2	12/08/14 11:33 / cm		FIA203-HE_141208A	42	R102687
Nitrogen, Total	0.67	mg/L		0.05		A4500 N-C	12/11/14 08:41 / cm	12/09/14 08:09	FIA203-HE_141211A	14	27321
Phosphorus, Total as P	0.039	mg/L		0.005		E365.1	12/08/14 15:50 / cm	12/08/14 13:30	FIA202-HE_141208A	115	27311
METALS, DISSOLVED											
Arsenic	0.009	mg/L		0.001		E200.8	12/10/14 01:51 / dck		ICPMS204-B_141209B	149	R102739
Cadmium	0.00008	mg/L		0.00003		E200.8	12/10/14 01:51 / dck		ICPMS204-B_141209B	149	R102739
Copper	0.005	mg/L		0.001		E200.8	12/10/14 01:51 / dck		ICPMS204-B_141209B	149	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 01:51 / dck		ICPMS204-B_141209B	149	R102739
Zinc	0.020	mg/L		0.008		E200.8	12/10/14 01:51 / dck		ICPMS204-B_141209B	149	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.011	mg/L		0.001		E200.8	12/10/14 01:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	150	27296
Cadmium	0.00013	mg/L		0.00003		E200.8	12/10/14 01:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	150	27296
Calcium	71	mg/L		1		E200.7	12/09/14 14:17 / sld	12/08/14 08:42	ICP2-HE_141209B	51	27296
Copper	0.008	mg/L		0.001		E200.8	12/10/14 01:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	150	27296
Lead	0.0012	mg/L		0.0003		E200.8	12/10/14 01:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	150	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: SS-25
Lab ID: H14120106-011
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 13:45
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	16	mg/L		1		E200.7	12/09/14 14:17 / sld	12/08/14 08:42	ICP2-HE_141209B	51	27296
Zinc	0.027	mg/L		0.008		E200.8	12/10/14 01:56 / dck	12/08/14 08:42	ICPMS204-B_141209B	150	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14120106-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 14:30
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	3	mg/L		1		A2540 D	12/05/14 14:19 / SR		I24 (14410200)_141205A	23	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	130	mg/L		4		A2320 B	12/09/14 14:14 / SR		PHSC_101-H_141209A	50	R102712
Bicarbonate as HCO3	160	mg/L		4		A2320 B	12/09/14 14:14 / SR		PHSC_101-H_141209A	50	R102712
Chloride	6	mg/L		1		E300.0	12/08/14 16:28 / SR		IC102-H_141208A	43	R102706
Sulfate	190	mg/L		1		E300.0	12/08/14 16:28 / SR		IC102-H_141208A	43	R102706
Hardness as CaCO3	287	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	12	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	2.5	mg/L		0.5		A5310 C	12/12/14 02:15 / eli-c		SUB-C194275	19	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:49 / cm		FIA203-HE_141208C	42	R102707
Nitrogen, Nitrate+Nitrite as N	0.11	mg/L		0.05		E353.2	12/08/14 11:37 / cm		FIA203-HE_141208A	45	R102687
Nitrogen, Total	0.31	mg/L		0.05		A4500 N-C	12/11/14 08:42 / cm	12/09/14 08:09	FIA203-HE_141211A	15	27321
Phosphorus, Total as P	0.021	mg/L		0.005		E365.1	12/08/14 15:51 / cm	12/08/14 13:30	FIA202-HE_141208A	116	27311
METALS, DISSOLVED											
Arsenic	0.014	mg/L		0.001		E200.8	12/10/14 02:18 / dck		ICPMS204-B_141209B	155	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 02:18 / dck		ICPMS204-B_141209B	155	R102739
Copper	0.002	mg/L		0.001		E200.8	12/10/14 02:18 / dck		ICPMS204-B_141209B	155	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 02:18 / dck		ICPMS204-B_141209B	155	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 02:18 / dck		ICPMS204-B_141209B	155	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.016	mg/L		0.001		E200.8	12/10/14 02:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	156	27296
Cadmium	0.00005	mg/L		0.00003		E200.8	12/10/14 02:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	156	27296
Calcium	85	mg/L		1		E200.7	12/09/14 14:32 / sld	12/08/14 08:42	ICP2-HE_141209B	55	27296
Copper	0.003	mg/L		0.001		E200.8	12/10/14 02:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	156	27296
Lead	0.0007	mg/L		0.0003		E200.8	12/10/14 02:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	156	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MWB-SBC
Lab ID: H14120106-012
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 14:30
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	18	mg/L		1		E200.7	12/09/14 14:32 / sld	12/08/14 08:42	ICP2-HE_141209B	55	27296
Zinc	0.010	mg/L		0.008		E200.8	12/10/14 02:23 / dck	12/08/14 08:42	ICPMS204-B_141209B	156	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14120106-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 15:30
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	ND	mg/L		1		A2540 D	12/05/14 14:19 / SR		I24 (14410200)_141205A	24	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		4		A2320 B	12/09/14 14:21 / SR		PHSC_101-H_141209A	52	R102712
Bicarbonate as HCO3	ND	mg/L		4		A2320 B	12/09/14 14:21 / SR		PHSC_101-H_141209A	52	R102712
Chloride	ND	mg/L		1		E300.0	12/08/14 16:39 / SR		IC102-H_141208A	44	R102706
Sulfate	ND	mg/L		1		E300.0	12/08/14 16:39 / SR		IC102-H_141208A	44	R102706
Hardness as CaCO3	ND	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	13	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	ND	mg/L		0.5		A5310 C	12/12/14 02:31 / eli-c		SUB-C194275	20	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:50 / cm		FIA203-HE_141208C	43	R102707
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.05		E353.2	12/08/14 11:38 / cm		FIA203-HE_141208A	46	R102687
Nitrogen, Total	0.11	mg/L		0.05		A4500 N-C	12/11/14 08:44 / cm	12/09/14 08:09	FIA203-HE_141211A	16	27321
Phosphorus, Total as P	0.005	mg/L		0.005		E365.1	12/08/14 15:52 / cm	12/08/14 13:30	FIA202-HE_141208A	117	27311
Confirmed detection with duplicate analysis.											
METALS, DISSOLVED											
Arsenic	ND	mg/L		0.001		E200.8	12/10/14 02:27 / dck		ICPMS204-B_141209B	157	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 02:27 / dck		ICPMS204-B_141209B	157	R102739
Copper	ND	mg/L		0.001		E200.8	12/10/14 02:27 / dck		ICPMS204-B_141209B	157	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 02:27 / dck		ICPMS204-B_141209B	157	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 02:27 / dck		ICPMS204-B_141209B	157	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	ND	mg/L		0.001		E200.8	12/10/14 02:32 / dck	12/08/14 08:42	ICPMS204-B_141209B	158	27296
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 02:32 / dck	12/08/14 08:42	ICPMS204-B_141209B	158	27296
Calcium	ND	mg/L		1		E200.7	12/09/14 14:43 / sld	12/08/14 08:42	ICP2-HE_141209B	58	27296
Copper	ND	mg/L		0.001		E200.8	12/10/14 02:32 / dck	12/08/14 08:42	ICPMS204-B_141209B	158	27296
Lead	ND	mg/L		0.0003		E200.8	12/10/14 02:32 / dck	12/08/14 08:42	ICPMS204-B_141209B	158	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: Field Blank #2
Lab ID: H14120106-013
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 15:30
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	ND	mg/L		1		E200.7	12/09/14 14:43 / sld	12/08/14 08:42	ICP2-HE_141209B	58	27296
Zinc	ND	mg/L		0.008		E200.8	12/10/14 02:32 / dck	12/08/14 08:42	ICPMS204-B_141209B	158	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14120106-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 16:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	37	mg/L		2		A2540 D	12/05/14 14:20 / SR		I24 (14410200)_141205A	27	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	98	mg/L		4		A2320 B	12/09/14 14:25 / SR		PHSC_101-H_141209A	54	R102712
Bicarbonate as HCO3	120	mg/L		4		A2320 B	12/09/14 14:25 / SR		PHSC_101-H_141209A	54	R102712
Chloride	2	mg/L		1		E300.0	12/08/14 17:13 / SR		IC102-H_141208A	47	R102706
Sulfate	24	mg/L		1		E300.0	12/08/14 17:13 / SR		IC102-H_141208A	47	R102706
Hardness as CaCO3	108	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	14	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.7	mg/L		0.5		A5310 C	12/12/14 02:46 / eli-c		SUB-C194275	21	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:52 / cm		FIA203-HE_141208C	44	R102707
Nitrogen, Nitrate+Nitrite as N	0.12	mg/L		0.05		E353.2	12/08/14 11:39 / cm		FIA203-HE_141208A	47	R102687
Nitrogen, Total	0.42	mg/L		0.05		A4500 N-C	12/11/14 08:47 / cm	12/09/14 08:09	FIA203-HE_141211A	19	27321
Phosphorus, Total as P	0.059	mg/L		0.005		E365.1	12/08/14 15:55 / cm	12/08/14 13:30	FIA202-HE_141208A	120	27311
METALS, DISSOLVED											
Arsenic	0.011	mg/L		0.001		E200.8	12/10/14 02:37 / dck		ICPMS204-B_141209B	159	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 02:37 / dck		ICPMS204-B_141209B	159	R102739
Copper	0.001	mg/L		0.001		E200.8	12/10/14 02:37 / dck		ICPMS204-B_141209B	159	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 02:37 / dck		ICPMS204-B_141209B	159	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 12:48 / dck		ICPMS204-B_141209B	289	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.019	mg/L		0.001		E200.8	12/10/14 02:55 / dck	12/08/14 08:42	ICPMS204-B_141209B	163	27296
Cadmium	0.00034	mg/L		0.00003		E200.8	12/10/14 02:55 / dck	12/08/14 08:42	ICPMS204-B_141209B	163	27296
Calcium	30	mg/L		1		E200.7	12/09/14 14:47 / sld	12/08/14 08:42	ICP2-HE_141209B	59	27296
Copper	0.034	mg/L		0.001		E200.8	12/10/14 02:55 / dck	12/08/14 08:42	ICPMS204-B_141209B	163	27296
Lead	0.0112	mg/L		0.0003		E200.8	12/10/14 02:55 / dck	12/08/14 08:42	ICPMS204-B_141209B	163	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB
Lab ID: H14120106-014
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 16:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	12/09/14 14:47 / sld	12/08/14 08:42	ICP2-HE_141209B	59	27296
Zinc	0.054	mg/L		0.008		E200.8	12/10/14 02:55 / dck	12/08/14 08:42	ICPMS204-B_141209B	163	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14120106-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 16:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
Solids, Total Suspended TSS @ 105 C	35	mg/L		2		A2540 D	12/05/14 14:21 / SR		I24 (14410200)_141205A	29	TSS141205A
INORGANICS											
Alkalinity, Total as CaCO3	99	mg/L		4		A2320 B	12/08/14 18:45 / SR		PHSC_101-H_141208A	182	R102675
Bicarbonate as HCO3	120	mg/L		4		A2320 B	12/08/14 18:45 / SR		PHSC_101-H_141208A	182	R102675
Chloride	2	mg/L		1		E300.0	12/08/14 17:46 / SR		IC102-H_141208A	50	R102706
Sulfate	24	mg/L		1		E300.0	12/08/14 17:46 / SR		IC102-H_141208A	50	R102706
Hardness as CaCO3	108	mg/L		1		A2340 B	12/10/14 09:55 / sld		WATERCALC_141210B	15	R102749
AGGREGATE ORGANICS											
Organic Carbon, Dissolved (DOC)	1.7	mg/L		0.5		A5310 C	12/12/14 03:02 / eli-c		SUB-C194275	22	C_R194275
NUTRIENTS											
Nitrogen, Ammonia as N	ND	mg/L		0.05		E350.1	12/08/14 15:53 / cm		FIA203-HE_141208C	45	R102707
Nitrogen, Nitrate+Nitrite as N	0.11	mg/L		0.05		E353.2	12/08/14 11:41 / cm		FIA203-HE_141208A	48	R102687
Nitrogen, Total	0.45	mg/L		0.05		A4500 N-C	12/11/14 08:48 / cm	12/09/14 08:09	FIA203-HE_141211A	20	27321
Phosphorus, Total as P	0.058	mg/L		0.005		E365.1	12/08/14 14:50 / cm	12/08/14 13:30	FIA202-HE_141208A	57	27311
METALS, DISSOLVED											
Arsenic	0.012	mg/L		0.001		E200.8	12/10/14 03:00 / dck		ICPMS204-B_141209B	164	R102739
Cadmium	ND	mg/L		0.00003		E200.8	12/10/14 03:00 / dck		ICPMS204-B_141209B	164	R102739
Copper	0.001	mg/L		0.001		E200.8	12/10/14 03:00 / dck		ICPMS204-B_141209B	164	R102739
Lead	ND	mg/L		0.0003		E200.8	12/10/14 03:00 / dck		ICPMS204-B_141209B	164	R102739
Zinc	ND	mg/L		0.008		E200.8	12/10/14 03:00 / dck		ICPMS204-B_141209B	164	R102739
METALS, TOTAL RECOVERABLE											
Arsenic	0.020	mg/L		0.001		E200.8	12/10/14 03:18 / dck	12/08/14 08:42	ICPMS204-B_141209B	168	27296
Cadmium	0.00035	mg/L		0.00003		E200.8	12/10/14 03:18 / dck	12/08/14 08:42	ICPMS204-B_141209B	168	27296
Calcium	31	mg/L		1		E200.7	12/09/14 14:50 / sld	12/08/14 08:42	ICP2-HE_141209B	60	27296
Copper	0.034	mg/L		0.001		E200.8	12/10/14 03:18 / dck	12/08/14 08:42	ICPMS204-B_141209B	168	27296
Lead	0.0112	mg/L		0.0003		E200.8	12/10/14 03:18 / dck	12/08/14 08:42	ICPMS204-B_141209B	168	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: MCWC-MWB Duplicate
Lab ID: H14120106-015
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/02/14 16:00
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Magnesium	8	mg/L		1		E200.7	12/09/14 14:50 / sld	12/08/14 08:42	ICP2-HE_141209B	60	27296
Zinc	0.055	mg/L		0.008		E200.8	12/10/14 03:18 / dck	12/08/14 08:42	ICPMS204-B_141209B	168	27296

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Helena, MT Branch

Client: MT DEQ-Federal Superfund
Client Sample ID: CFR-84F
Lab ID: H14120106-016
Matrix: Aqueous

Project: CFR Monitoring-474374
Collection Date: 12/01/14 10:45
DateReceived: 12/05/14
Report Date: 01/07/15

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, TOTAL RECOVERABLE											
Mercury	0.000013	mg/L		5E-06		E245.1	12/12/14 13:32 / rgk	12/10/14 12:59	HGCV202-H_141212A	: 16	27352

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 141211wa

Date: *08-Jan-15*

Run ID :Run Order: **HGCV202-H_141211A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**
Analysis Date: **12/11/14 10:34** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	100	90	110				

Associated samples: **H14120106-002C, H14120106-003C**

Run ID :Run Order: **HGCV202-H_141211A: 47** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**
Analysis Date: **12/11/14 14:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	99	90	110				

Associated samples: **H14120106-002C, H14120106-003C**

Run ID :Run Order: **HGCV202-H_141211A: 48** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**
Analysis Date: **12/11/14 14:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	102	95	105				

Associated samples: **H14120106-002C, H14120106-003C**

Run ID :Run Order: **HGCV202-H_141211A: 69** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E245.1**
Analysis Date: **12/11/14 16:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	102	90	110				

Associated samples: **H14120106-002C, H14120106-003C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 141212Dwa

Date: *08-Jan-15*

Run ID :Run Order: **HGCV202-H_141212A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E245.1**

Analysis Date: **12/12/14 12:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00019	0.00010	0.0002	0	97	90	110				

Associated samples: **H14120106-004C, H14120106-016A**

Run ID :Run Order: **HGCV202-H_141212A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV1** Method: **E245.1**

Analysis Date: **12/12/14 12:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00020	0.00010	0.0002	0	99	95	105				

Associated samples: **H14120106-004C, H14120106-016A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27296

Date: *08-Jan-15*

Run ID :Run Order: **ICP2-HE_141209B: 34** SampType: **Method Blank** Lab ID: **MB-27296** Method: **E200.7**
Analysis Date: **12/09/14 13:13** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	0.05	0.03									
Magnesium	ND	0.03									

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 35** SampType: **Laboratory Control Sample** Lab ID: **LCS-27296** Method: **E200.7**
Analysis Date: **12/09/14 13:16** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.4	1.0	25	0.0462	101	85	115				
Magnesium	25.3	1.0	25	0	101	85	115				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 37** SampType: **Serial Dilution** Lab ID: **H14120106-001CDIL** Method: **E200.7**
Analysis Date: **12/09/14 13:24** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	48.0	1.0		0		0	0	45.84	4.5	10	
Magnesium	11.9	1.0		0		0	0	11.51	3.1	10	

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 38** SampType: **Sample Matrix Spike** Lab ID: **H14120106-001CMS3** Method: **E200.7**
Analysis Date: **12/09/14 13:28** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	68.7	1.0	25	45.84	91	70	130				
Magnesium	34.9	1.0	25	11.51	94	70	130				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 39** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-001CMSD3** Method: **E200.7**
Analysis Date: **12/09/14 13:31** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	71.7	1.0	25	45.84	103	70	130	68.69	4.2	20	
Magnesium	36.7	1.0	25	11.51	101	70	130	34.91	5.0	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27296

Date: *08-Jan-15*

Run ID :Run Order: **ICP2-HE_141209B: 39** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-001CMSD3** Method: **E200.7**
Analysis Date: **12/09/14 13:31** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 52** SampType: **Serial Dilution** Lab ID: **H14120106-011CDIL** Method: **E200.7**
Analysis Date: **12/09/14 14:20** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	70.8	1.0		0		0	0	70.75	0.0	10	
Magnesium	15.9	1.0		0		0	0	16.01	0.5	10	

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 53** SampType: **Sample Matrix Spike** Lab ID: **H14120106-011CMS3** Method: **E200.7**
Analysis Date: **12/09/14 14:24** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	95.6	1.0	25	70.75	100	70	130				
Magnesium	40.5	1.0	25	16.01	98	70	130				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 54** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-011CMSD3** Method: **E200.7**
Analysis Date: **12/09/14 14:28** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	96.2	1.0	25	70.75	102	70	130	95.63	0.6	20	
Magnesium	40.8	1.0	25	16.01	99	70	130	40.5	0.7	20	

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27296

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 110** SampType: **Method Blank** Lab ID: **MB-27296** Method: **E200.8**
Analysis Date: **12/09/14 22:53** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	6E-05									
Cadmium	ND	3E-05									
Calcium	ND	0.02									
Copper	ND	0.0003									
Lead	ND	3E-05									
Magnesium	ND	0.002									
Zinc	0.002	0.001									

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 111** SampType: **Laboratory Control Sample** Lab ID: **LCS-27296** Method: **E200.8**
Analysis Date: **12/09/14 22:57** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.497	0.0010	0.5	0	99	85	115				
Cadmium	0.265	0.0010	0.25	0	106	85	115				
Calcium	27.4	1.0	25	0	110	85	115				
Copper	0.514	0.0050	0.5	0	103	85	115				
Lead	0.515	0.0010	0.5	0	103	85	115				
Magnesium	25.8	1.0	25	0	103	85	115				
Zinc	0.494	0.010	0.5	0.001659	98	85	115				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 115** SampType: **Sample Matrix Spike** Lab ID: **H14120106-001CMS3** Method: **E200.8**
Analysis Date: **12/09/14 23:15** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.493	0.0010	0.5	0.006903	97	70	130				
Cadmium	0.259	0.0010	0.25	0.0000602	103	70	130				
Calcium	73.6	1.0	25	49.09	98	70	130				
Copper	0.503	0.0050	0.5	0.008783	99	70	130				
Lead	0.512	0.0010	0.5	0.001035	102	70	130				
Magnesium	37.0	1.0	25	12.3	99	70	130				
Zinc	0.482	0.010	0.5	0.01469	93	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27296

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 115** SampType: **Sample Matrix Spike** Lab ID: **H14120106-001CMS3** Method: **E200.8**
Analysis Date: **12/09/14 23:15** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 116** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-001CMSD3** Method: **E200.8**
Analysis Date: **12/09/14 23:19** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.494	0.0010	0.5	0.006903	97	70	130	0.4927	0.2	20	
Cadmium	0.260	0.0010	0.25	0.0000602	104	70	130	0.2588	0.5	20	
Calcium	74.1	1.0	25	49.09	100	70	130	73.58	0.7	20	
Copper	0.499	0.0050	0.5	0.008783	98	70	130	0.5031	0.7	20	
Lead	0.505	0.0010	0.5	0.001035	101	70	130	0.512	1.4	20	
Magnesium	37.1	1.0	25	12.3	99	70	130	37.02	0.2	20	
Zinc	0.480	0.010	0.5	0.01469	93	70	130	0.4816	0.2	20	

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 151** SampType: **Sample Matrix Spike** Lab ID: **H14120106-011CMS3** Method: **E200.8**
Analysis Date: **12/10/14 02:00** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.499	0.0010	0.5	0.01127	98	70	130				
Cadmium	0.250	0.0010	0.25	0.0001286	100	70	130				
Calcium	98.3	1.0	25	72.67	103	70	130				
Copper	0.495	0.0050	0.5	0.00754	97	70	130				
Lead	0.500	0.0010	0.5	0.001159	100	70	130				
Magnesium	41.0	1.0	25	16.82	97	70	130				
Zinc	0.482	0.010	0.5	0.02703	91	70	130				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 152** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-011CMSD3** Method: **E200.8**
Analysis Date: **12/10/14 02:04** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.498	0.0010	0.5	0.01127	97	70	130	0.499	0.3	20	
Cadmium	0.251	0.0010	0.25	0.0001286	100	70	130	0.2497	0.5	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27296

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 152** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-011CMSD3** Method: **E200.8**

Analysis Date: **12/10/14 02:04** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E200.2**

Analytes 7	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	99.2	1.0	25	72.67	106	70	130	98.32	0.9	20	
Copper	0.507	0.0050	0.5	0.00754	100	70	130	0.4948	2.4	20	
Lead	0.508	0.0010	0.5	0.001159	101	70	130	0.5002	1.4	20	
Magnesium	42.3	1.0	25	16.82	102	70	130	41.01	3.0	20	
Zinc	0.489	0.010	0.5	0.02703	92	70	130	0.4823	1.4	20	

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27310

Date: *08-Jan-15*

Run ID :Run Order: **FIA202-HE_141208A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-27310** Method: **E365.1**
Analysis Date: **12/08/14 14:02** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.398	0.010	0.4	0	100	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D**

Run ID :Run Order: **FIA202-HE_141208A: 12** SampType: **Method Blank** Lab ID: **MB-27310** Method: **E365.1**
Analysis Date: **12/08/14 14:03** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D**

Run ID :Run Order: **FIA202-HE_141208A: 35** SampType: **Sample Matrix Spike** Lab ID: **H14120106-002DMS** Method: **E365.1**
Analysis Date: **12/08/14 14:27** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.187	0.010	0.2	0.00121	93	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D**

Run ID :Run Order: **FIA202-HE_141208A: 36** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-002DMSD** Method: **E365.1**
Analysis Date: **12/08/14 14:28** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.191	0.010	0.2	0.00121	95	90	110	0.1873	2.2	20	

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27311

Date: *08-Jan-15*

Run ID :Run Order: **FIA202-HE_141208A: 41** SampType: **Laboratory Control Sample** Lab ID: **LCS-27311** Method: **E365.1**
Analysis Date: **12/08/14 14:33** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.389	0.010	0.4	0	97	90	110				

Associated samples: **H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 42** SampType: **Method Blank** Lab ID: **MB-27311** Method: **E365.1**
Analysis Date: **12/08/14 14:34** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	ND	0.001									

Associated samples: **H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 58** SampType: **Sample Matrix Spike** Lab ID: **H14120106-015DMS** Method: **E365.1**
Analysis Date: **12/08/14 14:51** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.271	0.010	0.2	0.05775	107	90	110				

Associated samples: **H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 59** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-015DMSD** Method: **E365.1**
Analysis Date: **12/08/14 14:52** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.272	0.010	0.2	0.05775	107	90	110	0.2708	0.3	20	

Associated samples: **H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 118** SampType: **Sample Matrix Spike** Lab ID: **H14120106-013DMS** Method: **E365.1**
Analysis Date: **12/08/14 15:53** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.193	0.010	0.2	0.00539	94	90	110				

Associated samples: **H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27311

Date: *08-Jan-15*

Run ID :Run Order: **FIA202-HE_141208A: 119** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-013DMSD** Method: **E365.1**

Analysis Date: **12/08/14 15:54** Units: **mg/L** **Prep Info:** Prep Date: **12/8/2014** Prep Method: **E365.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.194	0.010	0.2	0.00539	**94**	90	110	0.193	**0.6**	20	

Associated samples: **H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27321

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141210C: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-27321** Method: **A4500 N-C**
Analysis Date: **12/10/14 15:57** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	16.0	0.30	15.2	0	106	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141210C: 12** SampType: **Method Blank** Lab ID: **MB-27321** Method: **A4500 N-C**
Analysis Date: **12/10/14 15:58** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141210C: 14** SampType: **Sample Duplicate** Lab ID: **H14110415-001EDUP** Method: **A4500 N-C**
Analysis Date: **12/10/14 16:01** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.660	0.10		0				0.6941	5.1	20	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141210C: 17** SampType: **Sample Matrix Spike** Lab ID: **H14120106-002AMS** Method: **A4500 N-C**
Analysis Date: **12/10/14 16:04** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.17	0.10	1	0.04318	113	90	110				S

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141210C: 18** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-002AMSD** Method: **A4500 N-C**
Analysis Date: **12/10/14 16:06** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.24	0.10	1	0.04318	119	90	110	1.173	5.2	20	S

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27321

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141211A: 11** SampType: **Laboratory Control Sample** Lab ID: **LCS-27321** Method: **A4500 N-C**
Analysis Date: **12/11/14 08:38** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	15.1	0.30	15.2	0	99	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141211A: 12** SampType: **Method Blank** Lab ID: **MB-27321** Method: **A4500 N-C**
Analysis Date: **12/11/14 08:39** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	ND	0.02									

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141211A: 17** SampType: **Sample Matrix Spike** Lab ID: **H14120106-013AMS** Method: **A4500 N-C**
Analysis Date: **12/11/14 08:45** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.20	0.10	1	0.1147	108	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141211A: 18** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-013AMSD** Method: **A4500 N-C**
Analysis Date: **12/11/14 08:46** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **A4500 N-C**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	1.27	0.10	1	0.1147	115	90	110	1.197	5.8	20	S

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27324

Date: *08-Jan-15*

Run ID :Run Order: **HGCV202-H_141211A: 52** SampType: **Method Blank** Lab ID: **MB-27324** Method: **E245.1**
Analysis Date: **12/11/14 14:46** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	7E-07									

Associated samples:

Run ID :Run Order: **HGCV202-H_141211A: 53** SampType: **Laboratory Control Sample** Lab ID: **LCS-27324** Method: **E245.1**
Analysis Date: **12/11/14 14:51** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0	104	90	110				

Associated samples:

Run ID :Run Order: **HGCV202-H_141211A: 71** SampType: **Sample Matrix Spike** Lab ID: **H14120093-001BMS** Method: **E245.1**
Analysis Date: **12/11/14 16:18** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000263	106	70	130				

Associated samples: **H14120106-002C, H14120106-003C**

Run ID :Run Order: **HGCV202-H_141211A: 72** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120093-001BMSD** Method: **E245.1**
Analysis Date: **12/11/14 16:22** Units: **mg/L** **Prep Info:** Prep Date: **12/9/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00016	0.00010	0.00015	0.00000263	104	70	130	0.000161	1.7	20	

Associated samples: **H14120106-002C, H14120106-003C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: 27352

Date: *08-Jan-15*

Run ID :Run Order: **HGCV202-H_141212A: 11** SampType: **Method Blank** Lab ID: **MB-27352** Method: **E245.1**
Analysis Date: **12/12/14 13:10** Units: **mg/L** **Prep Info:** Prep Date: **12/10/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	7E-07									

Associated samples: **H14120106-004C, H14120106-016A**

Run ID :Run Order: **HGCV202-H_141212A: 12** SampType: **Laboratory Control Sample** Lab ID: **LCS-27352** Method: **E245.1**
Analysis Date: **12/12/14 13:15** Units: **mg/L** **Prep Info:** Prep Date: **12/10/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00014	0.00010	0.00015	0	95	90	110				

Associated samples: **H14120106-004C, H14120106-016A**

Run ID :Run Order: **HGCV202-H_141212A: 14** SampType: **Sample Matrix Spike** Lab ID: **H14120106-004CMS** Method: **E245.1**
Analysis Date: **12/12/14 13:23** Units: **mg/L** **Prep Info:** Prep Date: **12/10/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00027	0.00010	0.00015	0.0001185	101	70	130				

Associated samples: **H14120106-004C, H14120106-016A**

Run ID :Run Order: **HGCV202-H_141212A: 15** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-004CMSD** Method: **E245.1**
Analysis Date: **12/12/14 13:27** Units: **mg/L** **Prep Info:** Prep Date: **12/10/2014** Prep Method: **E245.1**

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00024	0.00010	0.00015	0.0001185	78	70	130	0.0002696	14	20	

Associated samples: **H14120106-004C, H14120106-016A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_43453

Date: *08-Jan-15*

Run ID :Run Order: **SUB-C194275: 3** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV-43453** Method: **A5310 C**

Analysis Date: **12/11/14 20:37** Units: **mg/L** **Prep Info:** Prep Date: **12/11/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.87	0.50	10	0	99	90	110	0			

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Run ID :Run Order: **SUB-C194275: 4** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-43453** Method: **A5310 C**

Analysis Date: **12/11/14 20:52** Units: **mg/L** **Prep Info:** Prep Date: **12/11/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.81	0.50	10	0	98	90	110	0			

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_7923

Date: *08-Jan-15*

Run ID :Run Order: **SUB-C194275: 15** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-7923** Method: **A5310 C**

Analysis Date: **12/12/14 00:46** Units: **mg/L** **Prep Info:** Prep Date: **12/11/2014** Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	9.87	0.50	10	0	99	90	110	0			

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: C_R194275

Date: *08-Jan-15*

Run ID :Run Order: **SUB-C194275: 1** SampType: **Method Blank** Lab ID: **MBLK** Method: **A5310 C**
Analysis Date: **12/11/14 11:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total (TOC)	0.05	0.03									

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Run ID :Run Order: **SUB-C194275: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-8116** Method: **A5310 C**
Analysis Date: **12/11/14 19:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total (TOC)	9.92	0.50	10	0.04566	99	90	110	0			

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Run ID :Run Order: **SUB-C194275: 5** SampType: **Sample Matrix Spike** Lab ID: **C14120316-015EMS** Method: **A5310 C**
Analysis Date: **12/11/14 21:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	11.7	0.50	5	6.785	99	85	115	0			

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Run ID :Run Order: **SUB-C194275: 6** SampType: **Sample Matrix Spike Duplicate** Lab ID: **C14120316-015EMSD** Method: **A5310 C**
Analysis Date: **12/11/14 21:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Dissolved (DOC)	11.9	0.50	5	6.785	102	85	115	11.72	1.6	10	

Associated samples: **H14120106-001E, H14120106-002E, H14120106-003E, H14120106-004E, H14120106-005E, H14120106-006E, H14120106-007E, H14120106-008E, H14120106-009E, H14120106-010E, H14120106-011E, H14120106-012E, H14120106-013E, H14120106-014E, H14120106-015E**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102675

Date: *08-Jan-15*

Run ID :Run Order: **PHSC_101-H_141208A: 179** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **12/08/14 18:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	3	2									

Associated samples:

Run ID :Run Order: **PHSC_101-H_141208A: 181** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **12/08/14 18:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	630	4.0	600	3.24	104	90	110				

Associated samples:

Run ID :Run Order: **PHSC_101-H_141208A: 188** SampType: **Sample Duplicate** Lab ID: **H14120107-001HDUP** Method: **A2320 B**
Analysis Date: **12/08/14 19:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	800	4.0		0				807.1	1.3	10	
Bicarbonate as HCO3	970	4.0		0				984	1.3	10	

Associated samples:

Run ID :Run Order: **PHSC_101-H_141208A: 216** SampType: **Sample Matrix Spike** Lab ID: **H14120107-014HMS** Method: **A2320 B**
Analysis Date: **12/08/14 21:38** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	600	4.0	600	2.8	100	80	120				

Associated samples:

Run ID :Run Order: **PHSC_101-H_141208A: 225** SampType: **Sample Duplicate** Lab ID: **H14120107-016HDUP** Method: **A2320 B**
Analysis Date: **12/08/14 22:37** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	310	4.0		0				298.9	2.5	10	
Bicarbonate as HCO3	370	4.0		0				363.9	2.5	10	

Associated samples:

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102687

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141208A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E353.2**
Analysis Date: **12/08/14 10:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.02	0.010	1	0	102	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 9** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E353.2**
Analysis Date: **12/08/14 10:54** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.975	0.011	1	0	97	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 11** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E353.2**
Analysis Date: **12/08/14 10:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.00363	0.010		0		0	0				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 13** SampType: **Method Blank** Lab ID: **MBLK** Method: **E353.2**
Analysis Date: **12/08/14 10:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.007	0.001									

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 27** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **12/08/14 11:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.509	0.010	0.5	0	102	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102687

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141208A: 29** SampType: **Sample Matrix Spike** Lab ID: **H14120106-001DMS** Method: **E353.2**
Analysis Date: **12/08/14 11:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.15	0.011	1	0.1719	98	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 30** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-001DMSD** Method: **E353.2**
Analysis Date: **12/08/14 11:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.15	0.011	1	0.1719	98	90	110	1.148	0.2	20	

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 41** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E353.2**
Analysis Date: **12/08/14 11:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	0.512	0.010	0.5	0	102	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 43** SampType: **Sample Matrix Spike** Lab ID: **H14120106-011DMS** Method: **E353.2**
Analysis Date: **12/08/14 11:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.26	0.011	1	0.262	100	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208A: 44** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-011DMSD** Method: **E353.2**
Analysis Date: **12/08/14 11:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Nitrate+Nitrite as N	1.24	0.011	1	0.262	98	90	110	1.257	1.5	20	

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102699

Date: *08-Jan-15*

Run ID :Run Order: **FIA202-HE_141208A: 8** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E365.1**
Analysis Date: **12/08/14 13:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.248	0.010	0.25	0	99	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E365.1**
Analysis Date: **12/08/14 14:01** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	-4.92E-05	0.010		0		0	0				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 26** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **12/08/14 14:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0938	0.010	0.1	0	94	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 40** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **12/08/14 14:32** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0958	0.010	0.1	0	96	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA202-HE_141208A: 56** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**
Analysis Date: **12/08/14 14:49** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0964	0.010	0.1	0	96	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102699

Date: *08-Jan-15*

Run ID :Run Order: **FIA202-HE_141208A: 108** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E365.1**

Analysis Date: **12/08/14 15:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phosphorus, Total as P	0.0972	0.010	0.1	0	97	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102706

Date: *08-Jan-15*

Run ID :Run Order: **IC102-H_141208A: 13** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E300.0**
Analysis Date: **12/08/14 10:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	102	90	110				
Sulfate	400	1.0	400	0	101	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 14** SampType: **Method Blank** Lab ID: **ICB** Method: **E300.0**
Analysis Date: **12/08/14 11:06** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.09	0.008									
Sulfate	0.2	0.08									

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 15** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E300.0**
Analysis Date: **12/08/14 11:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	47	1.0	50	0.093	94	90	110				
Sulfate	200	1.0	200	0.246	98	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 16** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV120814-1** Method: **E300.0**
Analysis Date: **12/08/14 11:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	101	90	110				
Sulfate	410	1.0	400	0	102	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV120814-2** Method: **E300.0**
Analysis Date: **12/08/14 14:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	101	90	110				
Sulfate	400	1.0	400	0	101	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102706

Date: *08-Jan-15*

Run ID :Run Order: **IC102-H_141208A: 31** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV120814-2** Method: **E300.0**

Analysis Date: **12/08/14 14:15** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 34** SampType: **Sample Matrix Spike** Lab ID: **H14120106-004AMS** Method: **E300.0**

Analysis Date: **12/08/14 14:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	54	1.0	50	4.219	100	90	110				
Sulfate	220	1.0	200	15.66	103	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 35** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-004AMSD** Method: **E300.0**

Analysis Date: **12/08/14 14:59** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	54	1.0	50	4.219	100	90	110	54.37	0.3	20	
Sulfate	220	1.0	200	15.66	102	90	110	221.7	0.9	20	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 45** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV120814-3** Method: **E300.0**

Analysis Date: **12/08/14 16:51** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	100	1.0	100	0	101	90	110				
Sulfate	410	1.0	400	0	102	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **IC102-H_141208A: 48** SampType: **Sample Matrix Spike** Lab ID: **H14120106-014AMS** Method: **E300.0**

Analysis Date: **12/08/14 17:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	51	1.0	50	1.762	98	90	110				
Sulfate	230	1.0	200	23.93	103	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102706

Date: *08-Jan-15*

Run ID :Run Order: **IC102-H_141208A: 49** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-014AMSD** Method: **E300.0**

Analysis Date: **12/08/14 17:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52	1.0	50	1.762	**100**	90	110	50.57	**2.3**	20	
Sulfate	230	1.0	200	23.93	**104**	90	110	230.4	**1.0**	20	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102707

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141208C: 7** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E350.1**
Analysis Date: **12/08/14 15:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	14.6	0.50	15.2	0	96	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 8** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E350.1**
Analysis Date: **12/08/14 15:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.910	0.055	1	0	91	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **E350.1**
Analysis Date: **12/08/14 15:11** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	-0.0768	0.050		0		0	0				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 23** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **12/08/14 15:27** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.472	0.050	0.5	0	94	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 26** SampType: **Sample Matrix Spike** Lab ID: **H14120106-001DMS** Method: **E350.1**
Analysis Date: **12/08/14 15:30** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.784	0.055	1	0	78	80	120				S

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102707

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141208C: 27** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-001DMSD** Method: **E350.1**
Analysis Date: **12/08/14 15:31** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.789	0.055	1	0	79	80	120	0.7841	0.7	10	S

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 37** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E350.1**
Analysis Date: **12/08/14 15:43** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.472	0.050	0.5	0	94	90	110				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 40** SampType: **Sample Matrix Spike** Lab ID: **H14120106-011DMS** Method: **E350.1**
Analysis Date: **12/08/14 15:47** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.925	0.055	1	0.05222	87	80	120				

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Run ID :Run Order: **FIA203-HE_141208C: 41** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-011DMSD** Method: **E350.1**
Analysis Date: **12/08/14 15:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Ammonia as N	0.911	0.055	1	0.05222	86	80	120	0.9253	1.5	10	

Associated samples: **H14120106-001D, H14120106-002D, H14120106-003D, H14120106-004D, H14120106-005D, H14120106-006D, H14120106-007D, H14120106-008D, H14120106-009D, H14120106-010D, H14120106-011D, H14120106-012D, H14120106-013D, H14120106-014D, H14120106-015D**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102712

Date: *08-Jan-15*

Run ID :Run Order: **PHSC_101-H_141209A: 18** SampType: **Method Blank** Lab ID: **MB** Method: **A2320 B**
Analysis Date: **12/09/14 12:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	ND	2									

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A**

Run ID :Run Order: **PHSC_101-H_141209A: 20** SampType: **Laboratory Control Sample** Lab ID: **LCS** Method: **A2320 B**
Analysis Date: **12/09/14 12:29** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	620	4.0	600	0	103	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A**

Run ID :Run Order: **PHSC_101-H_141209A: 23** SampType: **Sample Matrix Spike** Lab ID: **H14120102-001AMS** Method: **A2320 B**
Analysis Date: **12/09/14 12:48** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	690	4.0	600	94.1	99	80	120				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A**

Run ID :Run Order: **PHSC_101-H_141209A: 26** SampType: **Sample Duplicate** Lab ID: **H14120106-001ADUP** Method: **A2320 B**
Analysis Date: **12/09/14 13:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	130	4.0		0				131.6	1.8	10	
Bicarbonate as HCO3	160	4.0		0				159.9	1.8	10	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A**

Run ID :Run Order: **PHSC_101-H_141209A: 46** SampType: **Sample Duplicate** Lab ID: **H14120106-010ADUP** Method: **A2320 B**
Analysis Date: **12/09/14 14:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	140	4.0		0				139	0.8	10	
Bicarbonate as HCO3	170	4.0		0				169	0.8	10	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102737

Date: *08-Jan-15*

Run ID :Run Order: **ICP2-HE_141209B: 6** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV** Method: **E200.7**
Analysis Date: **12/09/14 10:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	39.4	1.0	40	0	98	95	105				
Magnesium	39.6	1.0	40	0	99	95	105				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 7** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV-1** Method: **E200.7**
Analysis Date: **12/09/14 10:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.9	1.0	25	0	100	95	105				
Magnesium	24.8	1.0	25	0	99	95	105				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 10** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.7**
Analysis Date: **12/09/14 10:19** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	469	1.0	500	0	94	80	120				
Magnesium	512	1.0	500	0	102	80	120				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 11** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.7**
Analysis Date: **12/09/14 10:23** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	473	1.0	500	0	95	80	120				
Magnesium	513	1.0	500	0	103	80	120				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 32** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**
Analysis Date: **12/09/14 13:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.6	1.0	25	0	99	90	110				
Magnesium	24.5	1.0	25	0	98	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limit; N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102737

Date: *08-Jan-15*

Run ID :Run Order: **ICP2-HE_141209B: 32** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **12/09/14 13:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 44** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **12/09/14 13:50** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.3	1.0	25	0	97	90	110				
Magnesium	24.1	1.0	25	0	97	90	110				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Run ID :Run Order: **ICP2-HE_141209B: 56** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **E200.7**

Analysis Date: **12/09/14 14:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.4	1.0	25	0	98	90	110				
Magnesium	24.3	1.0	25	0	97	90	110				

Associated samples: **H14120106-001C, H14120106-002C, H14120106-003C, H14120106-004C, H14120106-005C, H14120106-006C, H14120106-007C, H14120106-008C, H14120106-009C, H14120106-010C, H14120106-011C, H14120106-012C, H14120106-013C, H14120106-014C, H14120106-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102739

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 10** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **12/09/14 10:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0584	0.0050	0.06	0	97	90	110				
Cadmium	0.0308	0.0010	0.03	0	103	90	110				
Copper	0.0605	0.010	0.06	0	101	90	110				
Lead	0.0573	0.010	0.06	0	96	90	110				
Zinc	0.0611	0.010	0.06	0	102	90	110				

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 11** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **12/09/14 10:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000102	0.0050		0							
Cadmium	0.000437	0.0010		0							
Copper	0.000345	0.010		0							
Lead	0.000203	0.010		0							
Zinc	0.000905	0.010		0							

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 12** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **12/09/14 10:25** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0106	0.0050	0.01	0	106	70	130				
Cadmium	0.00968	0.0010	0.01	0	97	70	130				
Copper	0.0210	0.010	0.02	0	105	70	130				
Lead	0.000217	0.010		0		0	0				
Zinc	0.0112	0.010	0.01	0	112	70	130				

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102739

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 23** SampType: **Method Blank** Lab ID: **ICB** Method: **E200.8**
Analysis Date: **12/09/14 16:14** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	3E-05									
Cadmium	ND	6E-06									
Copper	6E-05	3E-05									
Lead	ND	8E-06									
Zinc	0.0003	0.0003									

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 24** SampType: **Laboratory Fortified Blank** Lab ID: **LFB** Method: **E200.8**
Analysis Date: **12/09/14 16:18** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0498	0.0050	0.05	0	100	85	115				
Cadmium	0.0502	0.0010	0.05	0	100	85	115				
Copper	0.0512	0.010	0.05	0.0000607	102	85	115				
Lead	0.0474	0.010	0.05	0	95	85	115				
Zinc	0.0532	0.010	0.05	0.0003189	106	85	115				

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 117** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**
Analysis Date: **12/09/14 23:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000155	0.0050		0							
Cadmium	0.000451	0.0010		0							
Copper	0.000365	0.010		0							
Lead	0.000239	0.010		0							
Zinc	0.000999	0.010		0							

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102739

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 118** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **12/09/14 23:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0102	0.0050	0.01	0	102	70	130				
Cadmium	0.00928	0.0010	0.01	0	93	70	130				
Copper	0.0206	0.010	0.02	0	103	70	130				
Lead	0.000224	0.010		0		0	0				
Zinc	0.0107	0.010	0.01	0	107	70	130				

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 130** SampType: **Sample Matrix Spike** Lab ID: **H14120106-005BMS** Method: **E200.8**

Analysis Date: **12/10/14 00:24** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0535	0.0010	0.05	0.004189	99	70	130				
Cadmium	0.0468	0.0010	0.05	0	94	70	130				
Copper	0.0491	0.0050	0.05	0.00053	97	70	130				
Lead	0.0464	0.0010	0.05	0.0000118	93	70	130				
Zinc	0.0538	0.010	0.05	0.004161	99	70	130				

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 131** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-005BMSD** Method: **E200.8**

Analysis Date: **12/10/14 00:28** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0544	0.0010	0.05	0.004189	100	70	130	0.05353	1.6	20	
Cadmium	0.0485	0.0010	0.05	0	97	70	130	0.04681	3.5	20	
Copper	0.0491	0.0050	0.05	0.00053	97	70	130	0.0491	0.0	20	
Lead	0.0474	0.0010	0.05	0.0000118	95	70	130	0.04636	2.2	20	
Zinc	0.0538	0.010	0.05	0.004161	99	70	130	0.0538	0.1	20	

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102739

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 165** SampType: **Sample Matrix Spike** Lab ID: **H14120106-015BMS** Method: **E200.8**
Analysis Date: **12/10/14 03:04** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0614	0.0010	0.05	0.01168	99	70	130				
Cadmium	0.0483	0.0010	0.05	0	97	70	130				
Copper	0.0515	0.0050	0.05	0.001369	100	70	130				
Lead	0.0476	0.0010	0.05	0.0002138	95	70	130				
Zinc	0.0602	0.010	0.05	0.007548	105	70	130				

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 166** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120106-015BMSD** Method: **E200.8**
Analysis Date: **12/10/14 03:09** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0620	0.0010	0.05	0.01168	101	70	130	0.06138	0.9	20	
Cadmium	0.0477	0.0010	0.05	0	95	70	130	0.0483	1.2	20	
Copper	0.0516	0.0050	0.05	0.001369	101	70	130	0.05151	0.2	20	
Lead	0.0468	0.0010	0.05	0.0002138	93	70	130	0.04763	1.7	20	
Zinc	0.0586	0.010	0.05	0.007548	102	70	130	0.06024	2.7	20	

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 255** SampType: **Sample Matrix Spike** Lab ID: **H14120105-001BMS** Method: **E200.8**
Analysis Date: **12/10/14 10:03** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.252	0.0010	0.25	0	101	70	130				
Cadmium	0.210	0.0010	0.25	0.000051	84	70	130				
Copper	0.229	0.0050	0.25	0.001014	91	70	130				
Lead	0.236	0.0010	0.25	0.000153	94	70	130				
Zinc	0.233	0.010	0.25	0.004408	91	70	130				

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 256** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120105-001BMSD** Method: **E200.8**
Analysis Date: **12/10/14 10:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.256	0.0010	0.25	0	102	70	130	0.2516	1.7	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102739

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 256** SampType: **Sample Matrix Spike Duplicate** Lab ID: **H14120105-001BMSD** Method: **E200.8**

Analysis Date: **12/10/14 10:08** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	0.214	0.0010	0.25	0.000051	85	70	130	0.2095	2.0	20	
Copper	0.232	0.0050	0.25	0.001014	92	70	130	0.229	1.1	20	
Lead	0.235	0.0010	0.25	0.000153	94	70	130	0.2363	0.4	20	
Zinc	0.237	0.010	0.25	0.004408	93	70	130	0.2326	2.0	20	

Associated samples: **H14120106-001B, H14120106-002B, H14120106-003B, H14120106-004B, H14120106-005B, H14120106-006B, H14120106-007B, H14120106-008B, H14120106-009B, H14120106-010B, H14120106-011B, H14120106-012B, H14120106-013B, H14120106-014B, H14120106-015B**

Run ID :Run Order: **ICPMS204-B_141209B: 277** SampType: **Initial Calibration Verification Standard** Lab ID: **ICV STD** Method: **E200.8**

Analysis Date: **12/10/14 11:53** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0593	0.0050	0.06	0	99	90	110				
Cadmium	0.0316	0.0010	0.03	0	105	90	110				
Copper	0.0614	0.010	0.06	0	102	90	110				
Lead	0.0597	0.010	0.06	0	100	90	110				
Zinc	0.0607	0.010	0.06	0	101	90	110				

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Run ID :Run Order: **ICPMS204-B_141209B: 278** SampType: **Interference Check Sample A** Lab ID: **ICSA** Method: **E200.8**

Analysis Date: **12/10/14 11:58** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.000117	0.0050		0							
Cadmium	0.000495	0.0010		0							
Copper	0.000342	0.010		0							
Lead	0.000224	0.010		0							
Zinc	0.000889	0.010		0							

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102739

Date: *08-Jan-15*

Run ID :Run Order: **ICPMS204-B_141209B: 279** SampType: **Interference Check Sample AB** Lab ID: **ICSAB** Method: **E200.8**

Analysis Date: **12/10/14 12:02** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.0104	0.0050	0.01	0	**104**	70	130				
Cadmium	0.00966	0.0010	0.01	0	**97**	70	130				
Copper	0.0208	0.010	0.02	0	**104**	70	130				
Lead	0.000226	0.010		0		0	0				
Zinc	0.0112	0.010	0.01	0	**112**	70	130				

Associated samples: **H14120106-001B, H14120106-001C, H14120106-002B, H14120106-002C, H14120106-003B, H14120106-003C, H14120106-004B, H14120106-004C, H14120106-005B, H14120106-005C, H14120106-006B, H14120106-006C, H14120106-007B, H14120106-007C, H14120106-008B, H14120106-008C, H14120106-009B, H14120106-009C, H14120106-010B, H14120106-010C, H14120106-011B, H14120106-011C, H14120106-012B, H14120106-012C, H14120106-013B, H14120106-013C, H14120106-014B, H14120106-014C, H14120106-015B, H14120106-015C**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102782

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141210C: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **12/10/14 15:55** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.494	0.10	0.5	0	99	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A**

Run ID :Run Order: **FIA203-HE_141210C: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **12/10/14 15:56** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	-0.124	0.10		0		0	0				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A**

Run ID :Run Order: **FIA203-HE_141210C: 27** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **12/10/14 16:16** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.498	0.10	0.5	0	100	90	110				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: R102791

Date: *08-Jan-15*

Run ID :Run Order: **FIA203-HE_141211A: 9** SampType: **Continuing Calibration Verification Standar** Lab ID: **CCV** Method: **A4500 N-C**

Analysis Date: **12/11/14 08:35** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.486	0.10	0.5	0	97	90	110				

Associated samples: **H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **FIA203-HE_141211A: 10** SampType: **Initial Calibration Blank, Instrument Blank** Lab ID: **ICB** Method: **A4500 N-C**

Analysis Date: **12/11/14 08:36** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrogen, Total	0.151	0.10		0		0	0				

Associated samples: **H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS141205A

Date: *08-Jan-15*

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 1** SampType: **Method Blank** Lab ID: **MB-1_141205A** Method: **A2540 D**
Analysis Date: **12/05/14 14:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-2_141205A** Method: **A2540 D**
Analysis Date: **12/05/14 14:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	92.0	10	100	0	**92**	80	120				

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 4** SampType: **Sample Duplicate** Lab ID: **H14120097-001B DUP** Method: **A2540 D**
Analysis Date: **12/05/14 14:13** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	31.0	10		0				30	**3.3**	5	

Associated samples:

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 1** SampType: **Sample Duplicate** Lab ID: **H14120106-004A DUP** Method: **A2540 D**
Analysis Date: **12/05/14 14:17** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	8.30	2.1		0				8		5	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 2** SampType: **Method Blank** Lab ID: **MB-25_141205A** Method: **A2540 D**
Analysis Date: **12/05/14 14:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	ND	1									

Associated samples:

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

Client: MT DEQ-Federal Superfund
Work Order: H14120106
Project: CFR Monitoring-474374

ANALYTICAL QC SUMMARY REPORT

Prepared by Helena, MT Branch

BatchID: TSS141205A

Date: *08-Jan-15*

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 2** SampType: **Laboratory Control Sample** Lab ID: **LCS-26_141205A** Method: **A2540 D**

Analysis Date: **12/05/14 14:20** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	94.0	10	100	0	94	80	120				

Associated samples:

Run ID :Run Order: **ACCU-124 (14410200)_141205A: 2** SampType: **Sample Duplicate** Lab ID: **H14120106-014A DUP** Method: **A2540 D**

Analysis Date: **12/05/14 14:21** Units: **mg/L** **Prep Info:** Prep Date: Prep Method:

Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Solids, Total Suspended TSS @ 105 C	37.4	2.1		0				36.99	1.2	5	

Associated samples: **H14120106-001A, H14120106-002A, H14120106-003A, H14120106-004A, H14120106-005A, H14120106-006A, H14120106-007A, H14120106-008A, H14120106-009A, H14120106-010A, H14120106-011A, H14120106-012A, H14120106-013A, H14120106-014A, H14120106-015A**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limit
R - RPD outside accepted recovery limits
N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than four times the spike amount

January 06, 2015

Energy Laboratories, Inc.
ATTN: Jonathan Dee Hager
PO Box 5688
Helena MT 59604
jhager@energylab.com

RE: Project ENL-HL1201 Client Project: Silver Bow / Clark Fork

Dear Jonathan Dee Hager,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on December 08, 2014. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All data is reported without qualification (with the exception of concentration qualifiers), and all associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Annie Carter
VP of Operations
annie@brooksrand.com

Misun Chun
Data Management Specialist
misun@brooksrand.com

Report Information

Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations /certifications, please visit our website at <http://www.brooksrand.com/about/accreditations-certifications/>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

BLK	method blank	**MS**	matrix spike
BRL	Brooks Rand Labs	**MSD**	matrix spike duplicate
BS	laboratory fortified blank	**ND**	non-detect
CAL	calibration standard	**NR**	non-reportable
CCB	continuing calibration blank	**N/C**	not calculated
CCV	continuing calibration verification	**PS**	post preparation spike
COC	chain of custody record	**REC**	percent recovery
D	dissolved fraction	**RPD**	relative percent difference
DUP	duplicate	**RSD**	relative standard deviation
IBL	instrument blank	**SCV**	secondary calibration verification
ICV	initial calibration verification	**SOP**	standard operating procedure
MDL	method detection limit	**SRM**	standard reference material
MRL	method reporting limit	**T**	total recoverable fraction

Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H Holding time and/or preservation requirements not met. Result is estimated.
J Estimated value. A full explanation is presented in the narrative.
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
N Spike recovery was not within acceptance criteria. Result is estimated.
R Rejected, unusable value. A full explanation is presented in the narrative.
U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
H14120106-002F	1450003-01	DIW	Field Blank	12/01/2014	12/08/2014
H14120106-003F	1450003-02	Water	Sample	12/01/2014	12/08/2014
H14120106-004F	1450003-03	Water	Field Duplicate	12/01/2014	12/08/2014
H14120106-016B	1450003-04	Water	Sample	12/01/2014	12/08/2014
Trip Blank	1450003-05	DIW	Trip Blank	12/07/2014	12/08/2014

Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
MeHg	Water	EPA 1630	12/09/2014	12/10/2014	B142235	1401058
MeHg	Water	EPA 1630	12/30/2014	12/31/2014	B142323	1401105

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
H14120106-002F										
1450003-01	MeHg	DIW	T	0.020	U	0.020	0.049	ng/L	B142235	1401058
H14120106-003F										
1450003-02	MeHg	Water	T	0.547		0.020	0.050	ng/L	B142235	1401058
H14120106-004F										
1450003-03	MeHg	Water	T	0.539		0.020	0.050	ng/L	B142235	1401058
H14120106-016B										
1450003-04	MeHg	Water	T	0.151		0.020	0.049	ng/L	B142323	1401105
Trip Blank										
1450003-05	MeHg	DIW	T	0.020	U	0.020	0.050	ng/L	B142323	1401105

Project ID: ENL-HL1201
PM: Annie Carter

Client PM: Jonathan Dee Hager
Client PO: H13002

Accuracy & Precision Summary

Batch: B142235
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits		RPD & Limits	
B142235-BS1	**Laboratory Fortified Blank (1449018)**								
	MeHg		1.000	1.068	ng/L	107%	67-133		
B142235-MS1	**Matrix Spike (1449016-02)**								
	MeHg	0.677	1.200	2.020	ng/L	112%	65-135		
B142235-MSD1	**Matrix Spike Duplicate (1449016-02)**								
	MeHg	0.677	1.200	1.988	ng/L	109%	65-135	2%	35

Accuracy & Precision Summary

Batch: B142323
Lab Matrix: Water
Method: EPA 1630

Sample	Analyte	Native	Spike	Result	Units	REC & Limits		RPD & Limits	
B142323-BS1	**Laboratory Fortified Blank (1449018)**								
	MeHg		1.000	0.997	ng/L	100%	67-133		
B142323-MS1	**Matrix Spike (1450042-01)**								
	MeHg	0.055	1.000	0.940	ng/L	89%	65-135		
B142323-MSD1	**Matrix Spike Duplicate (1450042-01)**								
	MeHg	0.055	1.000	0.995	ng/L	94%	65-135	6%	35

Method Blanks & Reporting Limits

Batch: B142235
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B142235-BLK1	0.004	ng/L
B142235-BLK2	0.005	ng/L
B142235-BLK3	0.006	ng/L
B142235-BLK4	0.002	ng/L

Average: 0.004 **Standard Deviation:** 0.002 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.050

Project ID: ENL-HL1201
PM: Annie Carter

Client PM: Jonathan Dee Hager
Client PO: H13002

Method Blanks & Reporting Limits

Batch: B142323
Matrix: Water
Method: EPA 1630
Analyte: MeHg

Sample	Result	Units
B142323-BLK1	0.005	ng/L
B142323-BLK2	0.004	ng/L
B142323-BLK3	0.0007	ng/L
B142323-BLK4	0.001	ng/L

Average: 0.003 **Standard Deviation:** 0.002 **MDL:** 0.020
Limit: 0.045 **Limit:** 0.015 **MRL:** 0.049

Sample Containers

Lab ID: 1450003-01 **Report Matrix:** DIW **Collected:** 12/01/2014
Sample: H14120106-002F **Sample Type:** Field Blank **Received:** 12/08/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0144	2mL 6N HCl (PP)	1440002	<2	Cooler

Lab ID: 1450003-02 **Report Matrix:** Water **Collected:** 12/01/2014
Sample: H14120106-003F **Sample Type:** Sample **Received:** 12/08/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0144	2mL 6N HCl (PP)	1440002	<2	Cooler

Lab ID: 1450003-03 **Report Matrix:** Water **Collected:** 12/01/2014
Sample: H14120106-004F **Sample Type:** Field Duplicate **Received:** 12/08/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0144	2mL 6N HCl (PP)	1440002	<2	Cooler

Lab ID: 1450003-04 **Report Matrix:** Water **Collected:** 12/01/2014
Sample: H14120106-016B **Sample Type:** Sample **Received:** 12/08/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0144	2mL 6N HCl (PP)	1440002	<2	Cooler

Lab ID: 1450003-05 **Report Matrix:** DIW **Collected:** 12/07/2014
Sample: Trip Blank **Sample Type:** Trip Blank **Received:** 12/08/2014

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Bottle FLPE Hg-SP	250mL	14-0144	2mL 6N HCl (BRL)	1446004	<2	Cooler

Shipping Containers

Cooler

Received: December 8, 2014 9:40
Tracking No: 1Z37EW970151797774 via UPS
Coolant Type: Ice
Temperature: -0.1 °C

Description: Cooler
Damaged in transit? No
Returned to client? No

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

1450003

Energy Laboratories Inc
3161 East Lyndale Avenue
Helena, MT 59601
(406) 442-0711

H14120106

CHAIN-OF-CUSTODY RECORD

05-Dec-14

Custody Seal: Y N
Intacted: Y N
Signature Match: Y N

Shipped By: ~~UPS~~ UPS
Receipt Temp: -0.1°C

Subcontractor:
Brooks Rand Labs
3958 6th Ave NW
Seattle, WA 98106
TEL: (206) 632-6206 FAX: (206) 632-6017
Acct #:

Subcontractor's Client:

Requested Tests

Rush	Sample ID	Matrix	Collection Date	Bottle Type	SUB-BROOKSRAND
☐	H14120106-002F	Aqueous	12/01/14 12:00 P	1-CLIENT-SLD	1
☐	H14120106-003F	Aqueous	12/01/14 01:00 P	1-CLIENT-SLD	1
☐	H14120106-004F	Aqueous	12/01/14 01:00 P	1-CLIENT-SLD	1
☐	H14120106-016B	Aqueous	12/01/14 10:45 A	1-CLIENT-SLD	1

Earliest Due Date: 12/19/2014

Comments: PO# H13002

QC Level:
STD

		Date/Time		
Relinquished by:			**Received by:**	
Relinquished by:	[signature]	12/5/14 13:37	**Received by:**	[signature] 12/8/14 0940

Workorder Receipt Checklist

MT DEQ-Federal Superfund

H14120106

Login completed by: Tracy L. Lorash

Date Received: 12/5/2014

Reviewed by: BL2000\sdull

Received by: AHN

Reviewed Date: 12/10/2014

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	°C See comments		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

Sample ID on COC is LB-CFR-02 -ID on bottles is LB-CFR. Logged in with ID from COC per Erich.
Collection time on COC for MWB-SBC is 1430 - nutrient bottle has 1445. Logged in with time from COC.
Received filtered metals bottle for sample CFR-84F, however no analysis is requested for that bottle. Per Erich, we are to discard this sample.
Cooler 1 was received at 5.4°C, Cooler 2 at 4.4°C, Cooler 3 at 3.8°C. Samples were not received on ice. TI 12/5/14

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via Respec)

Report Mail Address (Required):
erich.weber@respec.com
joe.naughton@respec.com
gary.ingman@respec.com
bequinones@mt.gov
☐ No Hard Copy Email:

Invoice Address (Required):
MT DEQ
P.O. Box 200901
Helena, MT 59620-0901
☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Project Name, PWS, Permit, Etc.: CFROK Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Contact Name: Ben Quinones Phone/Fax: 406.841.5709 Cell: 841-5709
Erich Weber 506.1546 439-0563

Sampler: (Please Print) J. Naughton, G. Ingman, E. Weber

Invoice Contact & Phone: Ben Quinones 841.5709

Purchase Order:

Quote/Bottle Order: H958/16207

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Shipped by: hand

Cooler ID(s): 4

Receipt Temp: Comments °C

On Ice: Y (N)

Custody Seal: On Bottle Y (N); On Cooler Y (N)

Intact Y N

Signature Match Y N

Comments: all dissolved samples field filtered
C1=5.4 } TB
C2=4.4 } Office
C3=3.8

Standard Turnaround (TAT) — RUSH

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TAN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^-, Cl^-	Hardness (TR Ca+Mg)	DOC	SEE ATTACHED
C1	1 CFR-116A	12-1-2014	0930	6W	X	X	X	X	X	X	X	X	
C1	2 Field Blank #1	12-1-2014	1200	6W									
C1	3 FC-CFR	12-1-2014	1300	6W									
C1	4 FC-CFR Duplicate	12-1-2014	1300	6W									
C1	5 LBR-CFR-02	12-1-2014	1400	6W									
C1	6 CFR-27H	12-1-2014	1600	6W									
C2	7 CFR-11F	12-2-2014	0900	6W									
C2	8 CFR-07D	12-2-2014	1100	6W									
C2	9 CFR-03A	12-2-2014	1215	6W									
C2	10 WSC-SBC	12-2-2014	1245	6W									

LABORATORY USE ONLY: H14120106

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 12-5-2014 11:50 Signature:
Received by (print): Date/Time: Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:

Sample Disposal: Return to Client: Lab Disposal:

Received by Laboratory: Austin Nappass Date/Time: 12/5/14 11:50 Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
Visit our web site at www.energylab.com for additional information.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via Respec)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

Contact Name: See page 1 Phone/Fax: Cell:

Sampler: (Please Print) J. Naughton, G. Ingman, E. Weber

☐ No Hard Copy Email:

Invoice Contact & Phone: See page 1

Purchase Order:

Quote/Bottle Order: H958 / 16207

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format:
☐ State: ☐ LEVEL IV
☐ Other: ☐ NELAC

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

ANALYSIS REQUESTED

Standard Turnaround (TAT) | RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: Cl=5.4, C2=4.4, C3=3.8 } TB

Shipped by: hand
Cooler ID(s): 4
Receipt Temp (Comments) °C
On Ice: Y (N)
Custody Seal On Bottle Y (N) On Cooler Y (N)
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	TR As, Cd, Cu, Pb, Zn	Diss As, Cd, Cu, Pb, Zn	TAN	NH_3, NO_{3+2}, TP	TSS	Tot. Alk., SO_4^-, Cl^-	Hardness (TR Ca & Mg)	DOC			SEE ATTACHED
C2 1	SS-25	12-2-2014	13:45	GW	X	X	X	X	X	X	X	X			
C3 2	MWB-SBC	12-2-2014	1430	GW											
3	Field Blank #2	12-2-2014	1530	GW											
4	MCWC-MWB	12-2-2014	1600	GW											
5	MCWC-MWB Duplicate	12-2-2014	1600	GW											
6															
7															
8															
9															
10															

LABORATORY USE ONLY: H14120106

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 12-5-2014 11:50 Signature:
Relinquished by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by (print): Date/Time: Signature:
Received by Laboratory: Austin Napper Date/Time: 12/5/14 11:50 Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: MT DEQ (via Respec)

Project Name, PWS, Permit, Etc.: CFROU Monitoring

Sample Origin State: MT

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address (Required): See page 1

Contact Name: Phone/Fax: See page 1

Cell:

Sampler: (Please Print) J. Naughton, G. Ingraham, E. Weber

☐ No Hard Copy Email:

Invoice Contact & Phone: See page 1

Purchase Order:

Quote/Bottle Order: H958/16207

Invoice Address (Required): See page 1

☐ No Hard Copy Email:

Special Report/Formats:
- ☐ DW
- ☐ POTW/WWTP
- ☐ State:
- ☐ Other:
- ☐ EDD/EDT (Electronic Data) Format:
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED

Number of Containers
Sample Type: A W S V B O DW
Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Total Hg (low level)	Methyl Hg (Contract)	SEE ATTACHED	Standard Turnaround (TAT)	RUSH
1	CFR-B4F	12-1-2014	1045	2W	X	X			
2	Field Blank #1	12-1-2014	1200	1W					
3	FC-CFR	12-1-2014	1300	1W					
4	FC-CFR Duplicate	12-1-2014	1300	1W					
5									
6									
7									
8									
9									
10									

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: C1=5.4, C2=4.4, C3=3.6 TB

Separate 250 mL sample for Total Hg

Total Hg from TR metals

Total Hg from TR metals

Total Hg from TR metals

LABORATORY USE ONLY

Shipped by: hand

Cooler ID(s): 4

Receipt Temp: Comments °C

On Ice: Y (N)

Custody Seal: On Bottle Y (N); On Cooler Y (N)

Intact Y N

Signature Match Y N

H14120106

Custody Record MUST be Signed

Relinquished by (print): Erich Weber Date/Time: 12-5-2014 11:50 Signature:

Relinquished by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by (print): Date/Time: Signature:

Received by Laboratory: Anneapuss Date/Time: 12/5/14 11:50 Signature:

Sample Disposal: Return to Client: Lab Disposal:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

APPENDIX C

SURFACE WATER DATA

APPENDIX C
SURFACE WATER DATA

Table C1. Surface water monitoring data from Clark Fork River Operable Unit, 2014.

Site	Type	Lab ID	Collected Date	Parameter	Results	RL	Units	Qualifier	Method
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Alkalinity, Total as CaCO3	99	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Alkalinity, Total as CaCO3	68	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Alkalinity, Total as CaCO3	76	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Alkalinity, Total as CaCO3	74	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Alkalinity, Total as CaCO3	83	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Alkalinity, Total as CaCO3	160	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Alkalinity, Total as CaCO3	77	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Alkalinity, Total as CaCO3	69	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Alkalinity, Total as CaCO3	89	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Alkalinity, Total as CaCO3	150	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Alkalinity, Total as CaCO3	78	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Alkalinity, Total as CaCO3	88	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Alkalinity, Total as CaCO3	170	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Alkalinity, Total as CaCO3	150	4	mg/L		A2320 B

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Alkalinity, Total as CaCO3	88	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Alkalinity, Total as CaCO3	88	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Alkalinity, Total as CaCO3	170	4	mg/L		A2320 B
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Alkalinity, Total as CaCO3	120	4	mg/L		A2320 B
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
CSC	Natural Sample	H14050278-002	5/13/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
CSC	Natural Sample	H14060255-002	6/10/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
CSC	Natural Sample	H14060541-002	6/24/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Alkalinity, Total as CaCO3	100	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Alkalinity, Total as CaCO3	100	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Alkalinity, Total as CaCO3	190	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Alkalinity, Total as CaCO3	190	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Alkalinity, Total as CaCO3	180	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Alkalinity, Total as CaCO3	180	4	mg/L		A2320 B
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Alkalinity, Total as CaCO3	76	4	mg/L		A2320 B
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Alkalinity, Total as CaCO3	97	4	mg/L		A2320 B
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Alkalinity, Total as CaCO3	96	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Alkalinity, Total as CaCO3	96	4	mg/L		A2320 B

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Alkalinity, Total as CaCO3	55	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Alkalinity, Total as CaCO3	56	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Alkalinity, Total as CaCO3	48	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Alkalinity, Total as CaCO3	48	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Alkalinity, Total as CaCO3	60	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Alkalinity, Total as CaCO3	51	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Alkalinity, Total as CaCO3	84	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Alkalinity, Total as CaCO3	83	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Alkalinity, Total as CaCO3	99	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Alkalinity, Total as CaCO3	98	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Alkalinity, Total as CaCO3	65	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Alkalinity, Total as CaCO3	54	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Alkalinity, Total as CaCO3	51	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Alkalinity, Total as CaCO3	99	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Alkalinity, Total as CaCO3	100	4	mg/L		A2320 B
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Alkalinity, Total as CaCO3	90	4	mg/L		A2320 B
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Alkalinity, Total as CaCO3	80	4	mg/L		A2320 B
SS-25	Natural Sample	H14030285-011	3/19/2014	Alkalinity, Total as CaCO3	110	4	mg/L		A2320 B
SS-25	Natural Sample	H14050278-010	5/14/2014	Alkalinity, Total as CaCO3	91	4	mg/L		A2320 B
SS-25	Natural Sample	H14060255-010	6/11/2014	Alkalinity, Total as CaCO3	61	4	mg/L		A2320 B
SS-25	Natural Sample	H14060541-010	6/25/2014	Alkalinity, Total as CaCO3	69	4	mg/L		A2320 B
SS-25	Natural Sample	H14090349-011	9/17/2014	Alkalinity, Total as CaCO3	89	4	mg/L		A2320 B
SS-25	Natural Sample	H14120106-011	12/2/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Alkalinity, Total as CaCO3	150	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Alkalinity, Total as CaCO3	67	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Alkalinity, Total as CaCO3	70	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Alkalinity, Total as CaCO3	130	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Alkalinity, Total as CaCO3	140	4	mg/L		A2320 B
	Field Blank 1	H14030285-002	3/18/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14030285-013	3/19/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14050278-017	5/13/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B

	Field Blank 2	H14050278-013	5/14/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14060255-017	6/10/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14060255-013	6/11/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14060541-017	6/24/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14060541-013	6/25/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14090349-002	9/16/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14090349-013	9/17/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14120106-002	12/1/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14120106-013	12/2/2014	Alkalinity, Total as CaCO3	ND	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Arsenic, Dissolved	0.013	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Arsenic, Dissolved	0.015	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Arsenic, Dissolved	0.014	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Arsenic, Dissolved	0.018	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Arsenic, Dissolved	0.021	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Arsenic, Dissolved	0.01	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Arsenic, Dissolved	0.015	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Arsenic, Dissolved	0.014	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Arsenic, Dissolved	0.015	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Arsenic, Dissolved	0.017	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Arsenic, Dissolved	0.020	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Arsenic, Dissolved	0.011	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Arsenic, Dissolved	0.007	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Arsenic, Dissolved	0.005	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Arsenic, Dissolved	0.005	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Arsenic, Dissolved	0.007	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Arsenic, Dissolved	0.015	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Arsenic, Dissolved	0.015	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Arsenic, Dissolved	0.016	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Arsenic, Dissolved	0.018	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Arsenic, Dissolved	0.021	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Arsenic, Dissolved	0.011	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Arsenic, Dissolved	0.014	0.001	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Arsenic, Dissolved	0.015	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Arsenic, Dissolved	0.018	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Arsenic, Dissolved	0.016	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Arsenic, Dissolved	0.018	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Arsenic, Dissolved	0.012	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Arsenic, Dissolved	0.016	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Arsenic, Dissolved	0.017	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Arsenic, Dissolved	0.009	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Arsenic, Dissolved	0.012	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Arsenic, Dissolved	0.012	0.001	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Arsenic, Dissolved	0.002	0.001	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Arsenic, Dissolved	0.002	0.001	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Arsenic, Dissolved	0.002	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Arsenic, Dissolved	0.009	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Arsenic, Dissolved	0.009	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Arsenic, Dissolved	0.004	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Arsenic, Dissolved	0.004	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Arsenic, Dissolved	0.005	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Arsenic, Dissolved	0.004	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Arsenic, Dissolved	0.025	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Arsenic, Dissolved	0.025	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Arsenic, Dissolved	0.024	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Arsenic, Dissolved	0.025	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Arsenic, Dissolved	0.018	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Arsenic, Dissolved	0.012	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Arsenic, Dissolved	0.011	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Arsenic, Dissolved	0.018	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Arsenic, Dissolved	0.025	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Arsenic, Dissolved	0.02	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Arsenic, Dissolved	0.025	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Arsenic, Dissolved	0.019	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Arsenic, Dissolved	0.014	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Arsenic, Dissolved	0.014	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Arsenic, Dissolved	0.029	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Arsenic, Dissolved	0.029	0.001	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Arsenic, Dissolved	0.014	0.001	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Arsenic, Dissolved	0.017	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Arsenic, Dissolved	0.022	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Arsenic, Dissolved	0.026	0.001	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Arsenic, Dissolved	0.028	0.001	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Arsenic, Dissolved	0.009	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Arsenic, Dissolved	0.008	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Arsenic, Dissolved	0.005	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Arsenic, Dissolved	0.006	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Arsenic, Dissolved	0.007	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Arsenic, Dissolved	0.005	0.001	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Arsenic, Dissolved	ND	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Arsenic, Total Recoverable	0.016	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Arsenic, Total Recoverable	0.016	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Arsenic, Total Recoverable	0.015	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Arsenic, Total Recoverable	0.018	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Arsenic, Total Recoverable	0.017	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Arsenic, Total Recoverable	0.017	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Arsenic, Total Recoverable	0.006	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Arsenic, Total Recoverable	0.006	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Arsenic, Total Recoverable	0.007	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Arsenic, Total Recoverable	0.008	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Arsenic, Total Recoverable	0.007	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Arsenic, Total Recoverable	0.017	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Arsenic, Total Recoverable	0.018	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Arsenic, Total Recoverable	0.023	0.001	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Arsenic, Total Recoverable	0.018	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Arsenic, Total Recoverable	0.023	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Arsenic, Total Recoverable	0.020	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Arsenic, Total Recoverable	0.014	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Arsenic, Total Recoverable	0.024	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Arsenic, Total Recoverable	0.015	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Arsenic, Total Recoverable	0.014	0.001	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Arsenic, Total Recoverable	0.002	0.001	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Arsenic, Total Recoverable	0.002	0.001	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Arsenic, Total Recoverable	0.002	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Arsenic, Total Recoverable	0.013	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Arsenic, Total Recoverable	0.013	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Arsenic, Total Recoverable	0.009	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Arsenic, Total Recoverable	0.009	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Arsenic, Total Recoverable	0.011	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Arsenic, Total Recoverable	0.012	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Arsenic, Total Recoverable	0.008	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Arsenic, Total Recoverable	0.008	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Arsenic, Total Recoverable	0.007	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Arsenic, Total Recoverable	0.007	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Arsenic, Total Recoverable	0.005	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Arsenic, Total Recoverable	0.005	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Arsenic, Total Recoverable	0.006	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Arsenic, Total Recoverable	0.006	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Arsenic, Total Recoverable	0.005	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Arsenic, Total Recoverable	0.004	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Arsenic, Total Recoverable	0.022	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Arsenic, Total Recoverable	0.022	0.001	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Arsenic, Total Recoverable	0.027	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Arsenic, Total Recoverable	0.027	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Arsenic, Total Recoverable	0.026	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Arsenic, Total Recoverable	0.028	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Arsenic, Total Recoverable	0.020	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Arsenic, Total Recoverable	0.019	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Arsenic, Total Recoverable	0.02	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Arsenic, Total Recoverable	0.027	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Arsenic, Total Recoverable	0.028	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Arsenic, Total Recoverable	0.021	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Arsenic, Total Recoverable	0.016	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Arsenic, Total Recoverable	0.014	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Arsenic, Total Recoverable	0.028	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Arsenic, Total Recoverable	0.029	0.001	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Arsenic, Total Recoverable	0.016	0.001	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Arsenic, Total Recoverable	0.018	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Arsenic, Total Recoverable	0.023	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Arsenic, Total Recoverable	0.027	0.001	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Arsenic, Total Recoverable	0.029	0.001	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Arsenic, Total Recoverable	0.011	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Arsenic, Total Recoverable	0.008	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Arsenic, Total Recoverable	0.007	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Arsenic, Total Recoverable	0.006	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Arsenic, Total Recoverable	0.007	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Arsenic, Total Recoverable	0.008	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Arsenic, Total Recoverable	0.006	0.001	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Arsenic, Total Recoverable	ND	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Bicarbonate Alkalinity as HCO3	150	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Bicarbonate Alkalinity as HCO3	83	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Bicarbonate Alkalinity as HCO3	92	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Bicarbonate Alkalinity as HCO3	90	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Bicarbonate Alkalinity as HCO3	100	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Bicarbonate Alkalinity as HCO3	190	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Bicarbonate Alkalinity as HCO3	94	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Bicarbonate Alkalinity as HCO3	83	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Bicarbonate Alkalinity as HCO3	180	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Bicarbonate Alkalinity as HCO3	95	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Bicarbonate Alkalinity as HCO3	210	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Bicarbonate Alkalinity as HCO3	180	4	mg/L		A2320 B

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Bicarbonate Alkalinity as HCO3	150	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Bicarbonate Alkalinity as HCO3	210	4	mg/L		A2320 B
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Bicarbonate Alkalinity as HCO3	130	4	mg/L		A2320 B
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Bicarbonate Alkalinity as HCO3	150	4	mg/L		A2320 B
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
CSC	Natural Sample	H14050278-002	5/13/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
CSC	Natural Sample	H14060255-002	6/10/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
CSC	Natural Sample	H14060541-002	6/24/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Bicarbonate Alkalinity as HCO3	130	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Bicarbonate Alkalinity as HCO3	130	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Bicarbonate Alkalinity as HCO3	220	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Bicarbonate Alkalinity as HCO3	220	4	mg/L		A2320 B
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Bicarbonate Alkalinity as HCO3	210	4	mg/L		A2320 B
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Bicarbonate Alkalinity as HCO3	220	4	mg/L		A2320 B
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Bicarbonate Alkalinity as HCO3	130	4	mg/L		A2320 B
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Bicarbonate Alkalinity as HCO3	93	4	mg/L		A2320 B
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Bicarbonate Alkalinity as HCO3	130	4	mg/L		A2320 B
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Bicarbonate Alkalinity as HCO3	150	4	mg/L		A2320 B
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Bicarbonate Alkalinity as HCO3	67	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Bicarbonate Alkalinity as HCO3	67	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Bicarbonate Alkalinity as HCO3	57	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Bicarbonate Alkalinity as HCO3	58	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Bicarbonate Alkalinity as HCO3	72	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Bicarbonate Alkalinity as HCO3	61	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Bicarbonate Alkalinity as HCO3	100	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Bicarbonate Alkalinity as HCO3	100	4	mg/L		A2320 B
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Bicarbonate Alkalinity as HCO3	140	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Bicarbonate Alkalinity as HCO3	79	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Bicarbonate Alkalinity as HCO3	65	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Bicarbonate Alkalinity as HCO3	62	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Bicarbonate Alkalinity as HCO3	120	4	mg/L		A2320 B
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Bicarbonate Alkalinity as HCO3	85	4	mg/L		A2320 B
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Bicarbonate Alkalinity as HCO3	65	4	mg/L		A2320 B
SS-25	Natural Sample	H14030285-011	3/19/2014	Bicarbonate Alkalinity as HCO3	130	4	mg/L		A2320 B
SS-25	Natural Sample	H14050278-010	5/14/2014	Bicarbonate Alkalinity as HCO3	110	4	mg/L		A2320 B
SS-25	Natural Sample	H14060255-010	6/11/2014	Bicarbonate Alkalinity as HCO3	74	4	mg/L		A2320 B
SS-25	Natural Sample	H14060541-010	6/25/2014	Bicarbonate Alkalinity as HCO3	74	4	mg/L		A2320 B
SS-25	Natural Sample	H14090349-011	9/17/2014	Bicarbonate Alkalinity as HCO3	68	4	mg/L		A2320 B
SS-25	Natural Sample	H14120106-011	12/2/2014	Bicarbonate Alkalinity as HCO3	150	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Bicarbonate Alkalinity as HCO3	190	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Bicarbonate Alkalinity as HCO3	81	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Bicarbonate Alkalinity as HCO3	85	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Bicarbonate Alkalinity as HCO3	160	4	mg/L		A2320 B
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Bicarbonate Alkalinity as HCO3	170	4	mg/L		A2320 B
	Field Blank 1	H14030285-002	3/18/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14030285-013	3/19/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14050278-017	5/13/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B

	Field Blank 2	H14050278-013	5/14/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14060255-017	6/10/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14060255-013	6/11/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14060541-017	6/24/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14060541-013	6/25/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14090349-002	9/16/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14090349-013	9/17/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 1	H14120106-002	12/1/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
	Field Blank 2	H14120106-013	12/2/2014	Bicarbonate Alkalinity as HCO3	ND	4	mg/L		A2320 B
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Cadmium, Dissolved	0.00007	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Cadmium, Dissolved	0.00006	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Cadmium, Dissolved	0.00007	0.00003	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Cadmium, Dissolved	0.00015	0.00003	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Cadmium, Dissolved	0.00005	0.00003	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Cadmium, Dissolved	0.00006	0.00003	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Cadmium, Dissolved	0.00008	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Cadmium, Dissolved	0.00008	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Cadmium, Dissolved	0.00004	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Cadmium, Dissolved	0.00003	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Cadmium, Dissolved	ND	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Cadmium, Total Recoverable	0.00018	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Cadmium, Total Recoverable	0.00011	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Cadmium, Total Recoverable	0.00004	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Cadmium, Total Recoverable	0.00019	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Cadmium, Total Recoverable	0.00012	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Cadmium, Total Recoverable	0.00011	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Cadmium, Total Recoverable	0.00012	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Cadmium, Total Recoverable	0.00007	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Cadmium, Total Recoverable	0.00024	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Cadmium, Total Recoverable	0.00012	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Cadmium, Total Recoverable	0.0002	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Cadmium, Total Recoverable	0.00015	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Cadmium, Total Recoverable	0.00013	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Cadmium, Total Recoverable	0.00012	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Cadmium, Total Recoverable	0.00007	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Cadmium, Total Recoverable	0.00038	0.00003	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Cadmium, Total Recoverable	0.00018	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Cadmium, Total Recoverable	0.00021	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Cadmium, Total Recoverable	0.00019	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Cadmium, Total Recoverable	0.00013	0.00003	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Cadmium, Total Recoverable	0.00018	0.00003	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Cadmium, Total Recoverable	0.00025	0.00003	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Cadmium, Total Recoverable	0.0002	0.00003	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Cadmium, Total Recoverable	0.00017	0.00003	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Cadmium, Total Recoverable	0.00014	0.00003	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Cadmium, Total Recoverable	0.00013	0.00003	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Cadmium, Total Recoverable	0.00003	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Cadmium, Total Recoverable	0.00006	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Cadmium, Total Recoverable	0.00004	0.00003	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Cadmium, Total Recoverable	0.00013	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Cadmium, Total Recoverable	0.00013	0.00003	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Cadmium, Total Recoverable	0.0001	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Cadmium, Total Recoverable	0.0001	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Cadmium, Total Recoverable	0.00011	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Cadmium, Total Recoverable	0.00016	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Cadmium, Total Recoverable	0.00004	0.00003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Cadmium, Total Recoverable	0.00035	0.00003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Cadmium, Total Recoverable	0.00034	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Cadmium, Total Recoverable	0.00007	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Cadmium, Total Recoverable	0.00016	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Cadmium, Total Recoverable	0.00004	0.00003	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Cadmium, Total Recoverable	0.00005	0.00003	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Cadmium, Total Recoverable	0.00007	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Cadmium, Total Recoverable	0.00019	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Cadmium, Total Recoverable	0.00009	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Cadmium, Total Recoverable	0.0001	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Cadmium, Total Recoverable	0.00013	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Cadmium, Total Recoverable	0.00008	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Cadmium, Total Recoverable	0.00007	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Cadmium, Total Recoverable	0.00007	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Cadmium, Total Recoverable	0.0001	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Cadmium, Total Recoverable	0.00004	0.00003	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Cadmium, Total Recoverable	ND	0.00003	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Calcium, Total Recoverable	60	1	mg/L		E200.7
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Calcium, Total Recoverable	46	1	mg/L		E200.7
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Calcium, Total Recoverable	27	1	mg/L		E200.7
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Calcium, Total Recoverable	29	1	mg/L		E200.7
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Calcium, Total Recoverable	49	1	mg/L		E200.7
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Calcium, Total Recoverable	68	1	mg/L		E200.7
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Calcium, Total Recoverable	68	1	mg/L		E200.7
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Calcium, Total Recoverable	53	1	mg/L		E200.7
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Calcium, Total Recoverable	29	1	mg/L		E200.7
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Calcium, Total Recoverable	33	1	mg/L		E200.7
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Calcium, Total Recoverable	55	1	mg/L		E200.7
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Calcium, Total Recoverable	75	1	mg/L		E200.7
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Calcium, Total Recoverable	42	1	mg/L		E200.7
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Calcium, Total Recoverable	26	1	mg/L		E200.7
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Calcium, Total Recoverable	21	1	mg/L		E200.7
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Calcium, Total Recoverable	25	1	mg/L		E200.7
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Calcium, Total Recoverable	48	1	mg/L		E200.7
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Calcium, Total Recoverable	46	1	mg/L		E200.7
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Calcium, Total Recoverable	71	1	mg/L		E200.7
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Calcium, Total Recoverable	51	1	mg/L		E200.7
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Calcium, Total Recoverable	31	1	mg/L		E200.7
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Calcium, Total Recoverable	36	1	mg/L		E200.7
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Calcium, Total Recoverable	58	1	mg/L		E200.7
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Calcium, Total Recoverable	79	1	mg/L		E200.7
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Calcium, Total Recoverable	65	1	mg/L		E200.7

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Calcium, Total Recoverable	50	1	mg/L		E200.7
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Calcium, Total Recoverable	34	1	mg/L		E200.7
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Calcium, Total Recoverable	34	1	mg/L		E200.7
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Calcium, Total Recoverable	54	1	mg/L		E200.7
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Calcium, Total Recoverable	74	1	mg/L		E200.7
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Calcium, Total Recoverable	51	1	mg/L		E200.7
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Calcium, Total Recoverable	39	1	mg/L		E200.7
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Calcium, Total Recoverable	38	1	mg/L		E200.7
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Calcium, Total Recoverable	42	1	mg/L		E200.7
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Calcium, Total Recoverable	42	1	mg/L		E200.7
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Calcium, Total Recoverable	43	1	mg/L		E200.7
CSC	Natural Sample	H14050278-002	5/13/2014	Calcium, Total Recoverable	45	1	mg/L		E200.7
CSC	Natural Sample	H14060255-002	6/10/2014	Calcium, Total Recoverable	44	1	mg/L		E200.7
CSC	Natural Sample	H14060541-002	6/24/2014	Calcium, Total Recoverable	42	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Calcium, Total Recoverable	34	1	mg/L		E200.7
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Calcium, Total Recoverable	35	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Calcium, Total Recoverable	31	1	mg/L		E200.7
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Calcium, Total Recoverable	28	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Calcium, Total Recoverable	31	1	mg/L		E200.7
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Calcium, Total Recoverable	29	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Calcium, Total Recoverable	34	1	mg/L		E200.7
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Calcium, Total Recoverable	36	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Calcium, Total Recoverable	51	1	mg/L		E200.7
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Calcium, Total Recoverable	52	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Calcium, Total Recoverable	45	1	mg/L		E200.7
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Calcium, Total Recoverable	46	1	mg/L		E200.7
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Calcium, Total Recoverable	30	1	mg/L		E200.7
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Calcium, Total Recoverable	22	1	mg/L		E200.7
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Calcium, Total Recoverable	26	1	mg/L		E200.7
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Calcium, Total Recoverable	31	1	mg/L		E200.7
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Calcium, Total Recoverable	37	1	mg/L		E200.7
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Calcium, Total Recoverable	38	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Calcium, Total Recoverable	30	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Calcium, Total Recoverable	30	1	mg/L		E200.7

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Calcium, Total Recoverable	17	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Calcium, Total Recoverable	17	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Calcium, Total Recoverable	13	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Calcium, Total Recoverable	13	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Calcium, Total Recoverable	22	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Calcium, Total Recoverable	14	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Calcium, Total Recoverable	26	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Calcium, Total Recoverable	26	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Calcium, Total Recoverable	31	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Calcium, Total Recoverable	30	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Calcium, Total Recoverable	69	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Calcium, Total Recoverable	33	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Calcium, Total Recoverable	20	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Calcium, Total Recoverable	14	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Calcium, Total Recoverable	58	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Calcium, Total Recoverable	85	1	mg/L		E200.7
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Calcium, Total Recoverable	51	1	mg/L		E200.7
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Calcium, Total Recoverable	35	1	mg/L		E200.7
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Calcium, Total Recoverable	32	1	mg/L		E200.7
SS-25	Natural Sample	H14030285-011	3/19/2014	Calcium, Total Recoverable	57	1	mg/L		E200.7
SS-25	Natural Sample	H14050278-010	5/14/2014	Calcium, Total Recoverable	45	1	mg/L		E200.7
SS-25	Natural Sample	H14060255-010	6/11/2014	Calcium, Total Recoverable	24	1	mg/L		E200.7
SS-25	Natural Sample	H14060541-010	6/25/2014	Calcium, Total Recoverable	26	1	mg/L		E200.7
SS-25	Natural Sample	H14090349-011	9/17/2014	Calcium, Total Recoverable	46	1	mg/L		E200.7
SS-25	Natural Sample	H14120106-011	12/2/2014	Calcium, Total Recoverable	71	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Calcium, Total Recoverable	65	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Calcium, Total Recoverable	52	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Calcium, Total Recoverable	24	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Calcium, Total Recoverable	24	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Calcium, Total Recoverable	53	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Calcium, Total Recoverable	52	1	mg/L		E200.7
	Field Blank 1	H14030285-002	3/18/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14030285-013	3/19/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14050278-017	5/13/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7

	Field Blank 2	H14050278-013	5/14/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14060255-017	6/10/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14060255-013	6/11/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14060541-017	6/24/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14060541-013	6/25/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14090349-002	9/16/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14090349-013	9/17/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14120106-002	12/1/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14120106-013	12/2/2014	Calcium, Total Recoverable	ND	1	mg/L		E200.7
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Chloride	25	1	mg/L	B	E300.0
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Chloride	12	1	mg/L		E300.0
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Chloride	2	1	mg/L		E300.0
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Chloride	3	1	mg/L		E300.0
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Chloride	10	1	mg/L		E300.0
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Chloride	13	1	mg/L		E300.0
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Chloride	20	1	mg/L	B	E300.0
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Chloride	11	1	mg/L		E300.0
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Chloride	2	1	mg/L		E300.0
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Chloride	3	1	mg/L		E300.0
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Chloride	9	1	mg/L		E300.0
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Chloride	10	1	mg/L		E300.0
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Chloride	7	1	mg/L		E300.0
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Chloride	2	1	mg/L		E300.0
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Chloride	1	1	mg/L		E300.0
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Chloride	2	1	mg/L		E300.0
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Chloride	4	1	mg/L		E300.0
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Chloride	4	1	mg/L		E300.0
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Chloride	19	1	mg/L		E300.0
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Chloride	10	1	mg/L		E300.0
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Chloride	2	1	mg/L		E300.0
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Chloride	4	1	mg/L		E300.0
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Chloride	9	1	mg/L		E300.0
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Chloride	10	1	mg/L		E300.0
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Chloride	17	1	mg/L		E300.0

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Chloride	10	1	mg/L		E300.0
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Chloride	3	1	mg/L		E300.0
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Chloride	3	1	mg/L		E300.0
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Chloride	8	1	mg/L		E300.0
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Chloride	10	1	mg/L		E300.0
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Chloride	10	1	mg/L		E300.0
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Chloride	4	1	mg/L		E300.0
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Chloride	4	1	mg/L		E300.0
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Chloride	4	1	mg/L		E300.0
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Chloride	3	1	mg/L		E300.0
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Chloride	3	1	mg/L		E300.0
CSC	Natural Sample	H14050278-002	5/13/2014	Chloride	3	1	mg/L		E300.0
CSC	Natural Sample	H14060255-002	6/10/2014	Chloride	3	1	mg/L		E300.0
CSC	Natural Sample	H14060541-002	6/24/2014	Chloride	3	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Chloride	6	1	mg/L		E300.0
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Chloride	6	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Chloride	3	1	mg/L		E300.0
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Chloride	3	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Chloride	2	1	mg/L		E300.0
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Chloride	2	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Chloride	3	1	mg/L		E300.0
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Chloride	3	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Chloride	4	1	mg/L		E300.0
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Chloride	4	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Chloride	4	1	mg/L		E300.0
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Chloride	4	1	mg/L		E300.0
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Chloride	4	1	mg/L		E300.0
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Chloride	1	1	mg/L		E300.0
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Chloride	2	1	mg/L		E300.0
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Chloride	2	1	mg/L		E300.0
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Chloride	2	1	mg/L		E300.0
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Chloride	2	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Chloride	2	1	mg/L	B	E300.0
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Chloride	2	1	mg/L	B	E300.0

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Chloride	ND	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Chloride	ND	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Chloride	ND	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Chloride	ND	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Chloride	1	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Chloride	ND	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Chloride	1	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Chloride	1	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Chloride	2	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Chloride	2	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Chloride	7	1	mg/L	B	E300.0
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Chloride	2	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Chloride	1	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Chloride	ND	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Chloride	4	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Chloride	6	1	mg/L		E300.0
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Chloride	21	1	mg/L		E300.0
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Chloride	13	1	mg/L		E300.0
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Chloride	13	1	mg/L		E300.0
SS-25	Natural Sample	H14030285-011	3/19/2014	Chloride	30	1	mg/L	B	E300.0
SS-25	Natural Sample	H14050278-010	5/14/2014	Chloride	15	1	mg/L		E300.0
SS-25	Natural Sample	H14060255-010	6/11/2014	Chloride	3	1	mg/L		E300.0
SS-25	Natural Sample	H14060541-010	6/25/2014	Chloride	6	1	mg/L		E300.0
SS-25	Natural Sample	H14090349-011	9/17/2014	Chloride	14	1	mg/L		E300.0
SS-25	Natural Sample	H14120106-011	12/2/2014	Chloride	21	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Chloride	3	1	mg/L	B	E300.0
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Chloride	2	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Chloride	ND	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Chloride	ND	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Chloride	1	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Chloride	1	1	mg/L		E300.0
	Field Blank 1	H14030285-002	3/18/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 2	H14030285-013	3/19/2014	Chloride	7	1	mg/L	B	E300.0
	Field Blank 1	H14050278-017	5/13/2014	Chloride	ND	1	mg/L		E300.0

	Field Blank 2	H14050278-013	5/14/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 1	H14060255-017	6/10/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 2	H14060255-013	6/11/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 1	H14060541-017	6/24/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 2	H14060541-013	6/25/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 1	H14090349-002	9/16/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 2	H14090349-013	9/17/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 1	H14120106-002	12/1/2014	Chloride	ND	1	mg/L		E300.0
	Field Blank 2	H14120106-013	12/2/2014	Chloride	ND	1	mg/L		E300.0
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Copper, Dissolved	0.01	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Copper, Dissolved	0.008	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Copper, Dissolved	0.006	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Copper, Dissolved	0.006	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Copper, Dissolved	0.008	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Copper, Dissolved	0.01	0.001	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Copper, Dissolved	0.008	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Copper, Dissolved	0.011	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Copper, Dissolved	0.012	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Copper, Dissolved	0.007	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Copper, Dissolved	0.009	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Copper, Dissolved	0.012	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Copper, Dissolved	0.014	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Copper, Dissolved	0.006	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Copper, Dissolved	0.009	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Copper, Dissolved	0.009	0.001	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Copper, Dissolved	0.001	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Copper, Dissolved	0.006	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Copper, Dissolved	0.01	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Copper, Dissolved	0.008	0.001	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Copper, Dissolved	0.011	0.001	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Copper, Dissolved	0.006	0.001	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Copper, Dissolved	0.005	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Copper, Dissolved	0.004	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Copper, Dissolved	0.003	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Copper, Dissolved	0.002	0.001	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Copper, Dissolved	ND	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Copper, Total Recoverable	0.023	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Copper, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Copper, Total Recoverable	0.015	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Copper, Total Recoverable	0.016	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Copper, Total Recoverable	0.005	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Copper, Total Recoverable	0.009	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Copper, Total Recoverable	0.028	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Copper, Total Recoverable	0.02	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Copper, Total Recoverable	0.024	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Copper, Total Recoverable	0.027	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Copper, Total Recoverable	0.038	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Copper, Total Recoverable	0.017	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Copper, Total Recoverable	0.013	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Copper, Total Recoverable	0.012	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Copper, Total Recoverable	0.009	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Copper, Total Recoverable	0.036	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Copper, Total Recoverable	0.022	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Copper, Total Recoverable	0.027	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Copper, Total Recoverable	0.026	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Copper, Total Recoverable	0.009	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Copper, Total Recoverable	0.083	0.001	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Copper, Total Recoverable	0.033	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Copper, Total Recoverable	0.056	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Copper, Total Recoverable	0.048	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Copper, Total Recoverable	0.019	0.001	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Copper, Total Recoverable	0.024	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Copper, Total Recoverable	0.037	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Copper, Total Recoverable	0.063	0.001	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Copper, Total Recoverable	0.051	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Copper, Total Recoverable	0.028	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Copper, Total Recoverable	0.03	0.001	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Copper, Total Recoverable	0.028	0.001	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Copper, Total Recoverable	0.001	0.001	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Copper, Total Recoverable	0.001	0.001	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Copper, Total Recoverable	0.004	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Copper, Total Recoverable	0.004	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Copper, Total Recoverable	0.006	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Copper, Total Recoverable	0.005	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Copper, Total Recoverable	0.002	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Copper, Total Recoverable	0.002	0.001	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Copper, Total Recoverable	0.002	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Copper, Total Recoverable	0.001	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Copper, Total Recoverable	0.002	0.001	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Copper, Total Recoverable	0.002	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Copper, Total Recoverable	0.001	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Copper, Total Recoverable	0.009	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Copper, Total Recoverable	0.011	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Copper, Total Recoverable	0.004	0.001	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Copper, Total Recoverable	0.034	0.001	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Copper, Total Recoverable	0.034	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Copper, Total Recoverable	0.006	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Copper, Total Recoverable	0.006	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Copper, Total Recoverable	0.011	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Copper, Total Recoverable	0.003	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Copper, Total Recoverable	0.011	0.001	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Copper, Total Recoverable	0.022	0.001	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Copper, Total Recoverable	0.009	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Copper, Total Recoverable	0.007	0.001	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Copper, Total Recoverable	0.009	0.001	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Copper, Total Recoverable	0.004	0.001	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Copper, Total Recoverable	0.012	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Copper, Total Recoverable	0.017	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Copper, Total Recoverable	0.006	0.001	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Copper, Total Recoverable	0.008	0.001	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Copper, Total Recoverable	ND	0.001	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Hardness as CaCO3	203	1	mg/L		A2340 B
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Hardness as CaCO3	153	1	mg/L		A2340 B
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Hardness as CaCO3	92	1	mg/L		A2340 B
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Hardness as CaCO3	99	1	mg/L		A2340 B
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Hardness as CaCO3	172	1	mg/L		A2340 B
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Hardness as CaCO3	237	1	mg/L		A2340 B
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Hardness as CaCO3	233	1	mg/L		A2340 B
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Hardness as CaCO3	179	1	mg/L		A2340 B
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Hardness as CaCO3	99	1	mg/L		A2340 B
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Hardness as CaCO3	113	1	mg/L		A2340 B
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Hardness as CaCO3	194	1	mg/L		A2340 B
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Hardness as CaCO3	259	1	mg/L		A2340 B
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Hardness as CaCO3	148	1	mg/L		A2340 B
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Hardness as CaCO3	92	1	mg/L		A2340 B
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Hardness as CaCO3	75	1	mg/L		A2340 B
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Hardness as CaCO3	87	1	mg/L		A2340 B
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Hardness as CaCO3	171	1	mg/L		A2340 B
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Hardness as CaCO3	162	1	mg/L		A2340 B
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Hardness as CaCO3	244	1	mg/L		A2340 B
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Hardness as CaCO3	171	1	mg/L		A2340 B
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Hardness as CaCO3	107	1	mg/L		A2340 B
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Hardness as CaCO3	122	1	mg/L		A2340 B
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Hardness as CaCO3	204	1	mg/L		A2340 B
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Hardness as CaCO3	272	1	mg/L		A2340 B
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Hardness as CaCO3	221	1	mg/L		A2340 B

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Hardness as CaCO3	169	1	mg/L		A2340 B
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Hardness as CaCO3	116	1	mg/L		A2340 B
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Hardness as CaCO3	113	1	mg/L		A2340 B
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Hardness as CaCO3	188	1	mg/L		A2340 B
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Hardness as CaCO3	254	1	mg/L		A2340 B
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Hardness as CaCO3	171	1	mg/L		A2340 B
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Hardness as CaCO3	133	1	mg/L		A2340 B
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Hardness as CaCO3	132	1	mg/L		A2340 B
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Hardness as CaCO3	142	1	mg/L		A2340 B
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Hardness as CaCO3	144	1	mg/L		A2340 B
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Hardness as CaCO3	146	1	mg/L		A2340 B
CSC	Natural Sample	H14050278-002	5/13/2014	Hardness as CaCO3	153	1	mg/L		A2340 B
CSC	Natural Sample	H14060255-002	6/10/2014	Hardness as CaCO3	151	1	mg/L		A2340 B
CSC	Natural Sample	H14060541-002	6/24/2014	Hardness as CaCO3	143	1	mg/L		A2340 B
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Hardness as CaCO3	128	1	mg/L		A2340 B
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Hardness as CaCO3	133	1	mg/L		A2340 B
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Hardness as CaCO3	115	1	mg/L		A2340 B
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Hardness as CaCO3	103	1	mg/L		A2340 B
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Hardness as CaCO3	108	1	mg/L		A2340 B
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Hardness as CaCO3	104	1	mg/L		A2340 B
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Hardness as CaCO3	122	1	mg/L		A2340 B
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Hardness as CaCO3	129	1	mg/L		A2340 B
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Hardness as CaCO3	192	1	mg/L		A2340 B
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Hardness as CaCO3	195	1	mg/L		A2340 B
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Hardness as CaCO3	169	1	mg/L		A2340 B
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Hardness as CaCO3	170	1	mg/L		A2340 B
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Hardness as CaCO3	104	1	mg/L		A2340 B
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Hardness as CaCO3	75	1	mg/L		A2340 B
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Hardness as CaCO3	87	1	mg/L		A2340 B
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Hardness as CaCO3	104	1	mg/L		A2340 B
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Hardness as CaCO3	128	1	mg/L		A2340 B
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Hardness as CaCO3	131	1	mg/L		A2340 B
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Hardness as CaCO3	107	1	mg/L		A2340 B
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Hardness as CaCO3	107	1	mg/L		A2340 B

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Hardness as CaCO3	58	1	mg/L		A2340 B
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Hardness as CaCO3	59	1	mg/L		A2340 B
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Hardness as CaCO3	47	1	mg/L		A2340 B
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Hardness as CaCO3	46	1	mg/L		A2340 B
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Hardness as CaCO3	75	1	mg/L		A2340 B
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Hardness as CaCO3	47	1	mg/L		A2340 B
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Hardness as CaCO3	93	1	mg/L		A2340 B
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Hardness as CaCO3	94	1	mg/L		A2340 B
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Hardness as CaCO3	108	1	mg/L		A2340 B
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Hardness as CaCO3	108	1	mg/L		A2340 B
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Hardness as CaCO3	239	1	mg/L		A2340 B
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Hardness as CaCO3	111	1	mg/L		A2340 B
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Hardness as CaCO3	69	1	mg/L		A2340 B
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Hardness as CaCO3	49	1	mg/L		A2340 B
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Hardness as CaCO3	200	1	mg/L		A2340 B
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Hardness as CaCO3	287	1	mg/L		A2340 B
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Hardness as CaCO3	168	1	mg/L		A2340 B
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Hardness as CaCO3	124	1	mg/L		A2340 B
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Hardness as CaCO3	112	1	mg/L		A2340 B
SS-25	Natural Sample	H14030285-011	3/19/2014	Hardness as CaCO3	193	1	mg/L		A2340 B
SS-25	Natural Sample	H14050278-010	5/14/2014	Hardness as CaCO3	150	1	mg/L		A2340 B
SS-25	Natural Sample	H14060255-010	6/11/2014	Hardness as CaCO3	83	1	mg/L		A2340 B
SS-25	Natural Sample	H14060541-010	6/25/2014	Hardness as CaCO3	87	1	mg/L		A2340 B
SS-25	Natural Sample	H14090349-011	9/17/2014	Hardness as CaCO3	165	1	mg/L		A2340 B
SS-25	Natural Sample	H14120106-011	12/2/2014	Hardness as CaCO3	243	1	mg/L		A2340 B
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Hardness as CaCO3	217	1	mg/L		A2340 B
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Hardness as CaCO3	171	1	mg/L		A2340 B
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Hardness as CaCO3	79	1	mg/L		A2340 B
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Hardness as CaCO3	75	1	mg/L		A2340 B
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Hardness as CaCO3	178	1	mg/L		A2340 B
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Hardness as CaCO3	173	1	mg/L		A2340 B
	Field Blank 1	H14030285-002	3/18/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 2	H14030285-013	3/19/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 1	H14050278-017	5/13/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B

	Field Blank 2	H14050278-013	5/14/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 1	H14060255-017	6/10/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 2	H14060255-013	6/11/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 1	H14060541-017	6/24/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 2	H14060541-013	6/25/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 1	H14090349-002	9/16/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 2	H14090349-013	9/17/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 1	H14120106-002	12/1/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
	Field Blank 2	H14120106-013	12/2/2014	Hardness as CaCO3	ND	1	mg/L		A2340 B
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Lead, Dissolved	0.0004	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Lead, Dissolved	0.0004	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Lead, Dissolved	0.0003	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Lead, Dissolved	0.0003	0.0003	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Lead, Dissolved	0.0005	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Lead, Dissolved	0.0005	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Lead, Dissolved	0.0003	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Lead, Dissolved	0.0003	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Lead, Dissolved	0.0004	0.0003	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Lead, Dissolved	0.0005	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Lead, Dissolved	ND	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Lead, Total Recoverable	0.0051	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Lead, Total Recoverable	0.0013	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Lead, Total Recoverable	0.0015	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Lead, Total Recoverable	0.0018	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Lead, Total Recoverable	0.0003	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Lead, Total Recoverable	0.0011	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Lead, Total Recoverable	0.0054	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Lead, Total Recoverable	0.0021	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Lead, Total Recoverable	0.0024	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Lead, Total Recoverable	0.0027	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Lead, Total Recoverable	0.0005	0.0003	mg/L		E200.8
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Lead, Total Recoverable	0.0008	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Lead, Total Recoverable	0.0079	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Lead, Total Recoverable	0.0028	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Lead, Total Recoverable	0.0018	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Lead, Total Recoverable	0.0016	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Lead, Total Recoverable	0.0008	0.0003	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Lead, Total Recoverable	0.001	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Lead, Total Recoverable	0.006	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Lead, Total Recoverable	0.0025	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Lead, Total Recoverable	0.0027	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Lead, Total Recoverable	0.0027	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Lead, Total Recoverable	0.0005	0.0003	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Lead, Total Recoverable	0.0007	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Lead, Total Recoverable	0.0122	0.0003	mg/L		E200.8

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Lead, Total Recoverable	0.0035	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Lead, Total Recoverable	0.0061	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Lead, Total Recoverable	0.0046	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Lead, Total Recoverable	0.0018	0.0003	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Lead, Total Recoverable	0.0026	0.0003	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Lead, Total Recoverable	0.0042	0.0003	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Lead, Total Recoverable	0.0074	0.0003	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Lead, Total Recoverable	0.0054	0.0003	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Lead, Total Recoverable	0.0045	0.0003	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Lead, Total Recoverable	0.0038	0.0003	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Lead, Total Recoverable	0.0033	0.0003	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Lead, Total Recoverable	0.0088	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Lead, Total Recoverable	0.0087	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Lead, Total Recoverable	0.0042	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Lead, Total Recoverable	0.0042	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Lead, Total Recoverable	0.0052	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Lead, Total Recoverable	0.0051	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Lead, Total Recoverable	0.0039	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Lead, Total Recoverable	0.0048	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Lead, Total Recoverable	0.0009	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Lead, Total Recoverable	0.0009	0.0003	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Lead, Total Recoverable	0.0016	0.0003	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Lead, Total Recoverable	0.002	0.0003	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Lead, Total Recoverable	0.0003	0.0003	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Lead, Total Recoverable	0.0009	0.0003	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Lead, Total Recoverable	0.0004	0.0003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Lead, Total Recoverable	0.0003	0.0003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Lead, Total Recoverable	0.0022	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Lead, Total Recoverable	0.002	0.0003	mg/L		E200.8

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Lead, Total Recoverable	0.0012	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Lead, Total Recoverable	0.0012	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Lead, Total Recoverable	0.0016	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Lead, Total Recoverable	0.0014	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Lead, Total Recoverable	0.0016	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Lead, Total Recoverable	0.0026	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Lead, Total Recoverable	0.0008	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Lead, Total Recoverable	0.0008	0.0003	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Lead, Total Recoverable	0.0112	0.0003	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Lead, Total Recoverable	0.0112	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Lead, Total Recoverable	0.0015	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Lead, Total Recoverable	0.0011	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Lead, Total Recoverable	0.0011	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Lead, Total Recoverable	0.0027	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Lead, Total Recoverable	0.0004	0.0003	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Lead, Total Recoverable	0.0007	0.0003	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Lead, Total Recoverable	0.0011	0.0003	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Lead, Total Recoverable	0.0006	0.0003	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Lead, Total Recoverable	0.0056	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14050278-010	5/14/2014	Lead, Total Recoverable	0.0012	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Lead, Total Recoverable	0.001	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Lead, Total Recoverable	0.0012	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Lead, Total Recoverable	0.0004	0.0003	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Lead, Total Recoverable	0.0012	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Lead, Total Recoverable	0.0005	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Lead, Total Recoverable	0.0005	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Lead, Total Recoverable	0.0011	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Lead, Total Recoverable	0.0015	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Lead, Total Recoverable	0.0003	0.0003	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Lead, Total Recoverable	0.0005	0.0003	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8

	Field Blank 2	H14050278-013	5/14/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Lead, Total Recoverable	ND	0.0003	mg/L		E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Magnesium, Total Recoverable	13	1	mg/L		E200.7
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Magnesium, Total Recoverable	6	1	mg/L		E200.7
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Magnesium, Total Recoverable	6	1	mg/L		E200.7
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Magnesium, Total Recoverable	12	1	mg/L		E200.7
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Magnesium, Total Recoverable	16	1	mg/L		E200.7
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Magnesium, Total Recoverable	15	1	mg/L		E200.7
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Magnesium, Total Recoverable	14	1	mg/L		E200.7
CFR-07D	Natural Sample	H14120106-008	12/2/2014	Magnesium, Total Recoverable	17	1	mg/L		E200.7
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Magnesium, Total Recoverable	5	1	mg/L		E200.7
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Magnesium, Total Recoverable	6	1	mg/L		E200.7
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Magnesium, Total Recoverable	13	1	mg/L		E200.7
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Magnesium, Total Recoverable	12	1	mg/L		E200.7
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Magnesium, Total Recoverable	16	1	mg/L		E200.7
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Magnesium, Total Recoverable	15	1	mg/L		E200.7
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Magnesium, Total Recoverable	18	1	mg/L		E200.7
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Magnesium, Total Recoverable	14	1	mg/L		E200.7

CFR-27H	Natural Sample	H14050278-005	5/14/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Magnesium, Total Recoverable	13	1	mg/L		E200.7
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Magnesium, Total Recoverable	17	1	mg/L		E200.7
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
CSC	Natural Sample	H14050278-002	5/13/2014	Magnesium, Total Recoverable	10	1	mg/L		E200.7
CSC	Natural Sample	H14060255-002	6/10/2014	Magnesium, Total Recoverable	10	1	mg/L		E200.7
CSC	Natural Sample	H14060541-002	6/24/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Magnesium, Total Recoverable	16	1	mg/L		E200.7
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Magnesium, Total Recoverable	16	1	mg/L		E200.7
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Magnesium, Total Recoverable	14	1	mg/L		E200.7
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Magnesium, Total Recoverable	14	1	mg/L		E200.7
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Magnesium, Total Recoverable	5	1	mg/L		E200.7
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Magnesium, Total Recoverable	6	1	mg/L		E200.7
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7

MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Magnesium, Total Recoverable	4	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Magnesium, Total Recoverable	4	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Magnesium, Total Recoverable	3	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Magnesium, Total Recoverable	3	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Magnesium, Total Recoverable	5	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Magnesium, Total Recoverable	3	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Magnesium, Total Recoverable	16	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Magnesium, Total Recoverable	7	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Magnesium, Total Recoverable	5	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Magnesium, Total Recoverable	3	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Magnesium, Total Recoverable	14	1	mg/L		E200.7
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Magnesium, Total Recoverable	18	1	mg/L		E200.7
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Magnesium, Total Recoverable	10	1	mg/L		E200.7
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Magnesium, Total Recoverable	8	1	mg/L		E200.7
SS-25	Natural Sample	H14030285-011	3/19/2014	Magnesium, Total Recoverable	13	1	mg/L		E200.7
SS-25	Natural Sample	H14050278-010	5/14/2014	Magnesium, Total Recoverable	9	1	mg/L		E200.7
SS-25	Natural Sample	H14060255-010	6/11/2014	Magnesium, Total Recoverable	6	1	mg/L		E200.7
SS-25	Natural Sample	H14060541-010	6/25/2014	Magnesium, Total Recoverable	6	1	mg/L		E200.7
SS-25	Natural Sample	H14090349-011	9/17/2014	Magnesium, Total Recoverable	12	1	mg/L		E200.7
SS-25	Natural Sample	H14120106-011	12/2/2014	Magnesium, Total Recoverable	16	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Magnesium, Total Recoverable	13	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Magnesium, Total Recoverable	10	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Magnesium, Total Recoverable	4	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Magnesium, Total Recoverable	4	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Magnesium, Total Recoverable	11	1	mg/L		E200.7
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Magnesium, Total Recoverable	10	1	mg/L		E200.7
	Field Blank 1	H14030285-002	3/18/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14030285-013	3/19/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14050278-017	5/13/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7

	Field Blank 2	H14050278-013	5/14/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14060255-017	6/10/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14060255-013	6/11/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14060541-017	6/24/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14060541-013	6/25/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14090349-002	9/16/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14090349-013	9/17/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 1	H14120106-002	12/1/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
	Field Blank 2	H14120106-013	12/2/2014	Magnesium, Total Recoverable	ND	1	mg/L		E200.7
CFR-84F	Natural Sample	H14030285-016	3/18/2014	Mercury, Methyl	0.615	0.050	ng/L		E1630
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Mercury, Methyl	0.343	0.050	ng/L		E1630
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Mercury, Methyl	0.323	0.050	ng/L		E1630
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Mercury, Methyl	0.319	0.050	ng/L		E1630
CFR-84F	Natural Sample	H14090349-016	9/16/2014	Mercury, Methyl	0.237	0.050	ng/L		E1630
CFR-84F	Natural Sample	H14120106-016	12/1/2014	Mercury, Methyl	0.151	0.050	ng/L		E1630
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Mercury, Methyl	1.34	0.050	ng/L		E1630
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Mercury, Methyl	1.14	0.050	ng/L		E1630
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Mercury, Methyl	0.839	0.050	ng/L		E1630
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Mercury, Methyl	0.807	0.050	ng/L		E1630
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Mercury, Methyl	0.716	0.050	ng/L		E1630
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Mercury, Methyl	1.190	0.050	ng/L		E1630
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Mercury, Methyl	1.030	0.050	ng/L		E1630
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Mercury, Methyl	0.990	0.050	ng/L		E1630
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Mercury, Methyl	0.618	0.050	ng/L		E1630
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Mercury, Methyl	0.455	0.050	ng/L		E1630
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Mercury, Methyl	0.539	0.050	ng/L		E1630
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Mercury, Methyl	0.547	0.050	ng/L		E1630
	Field Blank 1	H14030285-002	3/18/2014	Mercury, Methyl	0.020	0.050	ng/L		E1630
	Field Blank 1	H14050278-017	5/13/2014	Mercury, Methyl	0.020	0.050	ng/L		E1630
	Field Blank 1	H14060255-017	6/10/2014	Mercury, Methyl	ND	0.050	ng/L		E1630
	Field Blank 1	H14060541-017	6/24/2014	Mercury, Methyl	0.020	0.050	ng/L		E1630
	Field Blank 1	H14090349-002	9/16/2014	Mercury, Methyl	ND	0.050	ng/L		E1630
	Field Blank 1	H14120106-002	12/1/2014	Mercury, Methyl	ND	0.050	ng/L		E1630
CFR-84F	Natural Sample	H14030285-016	3/18/2014	Mercury, Total	0.00016	0.000005	mg/L		E245.1

CFR-84F	Natural Sample	H14050278-016	5/13/2014	Mercury, Total	0.00005	0.000005	mg/L		E245.1
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Mercury, Total	0.000041	0.000005	mg/L		E245.1
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Mercury, Total	0.000037	0.000005	mg/L		E245.1
CFR-84F	Natural Sample	H14090349-016	9/16/2014	Mercury, Total	0.00002	0.000005	mg/L		E245.1
CFR-84F	Natural Sample	H14120106-016	12/1/2014	Mercury, Total	0.000013	0.000005	mg/L		E245.1
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Mercury, Total	0.00035	0.000005	mg/L		E245.1
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Mercury, Total	0.0004	0.000005	mg/L		E245.1
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Mercury, Total	0.000400	0.000005	mg/L		E245.1
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Mercury, Total	0.000230	0.000005	mg/L		E245.1
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Mercury, Total	0.000300	0.000005	mg/L		E245.1
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Mercury, Total	0.000360	0.000005	mg/L		E245.1
FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Mercury, Total	0.000190	0.000005	mg/L		E245.1
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Mercury, Total	0.000220	0.000005	mg/L		E245.1
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Mercury, Total	0.000038	0.000005	mg/L		E245.1
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Mercury, Total	0.000058	0.000005	mg/L		E245.1
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Mercury, Total	0.00012	0.000005	mg/L		E245.1
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Mercury, Total	0.00019	0.000005	mg/L		E245.1
	Field Blank 1	H14030285-002	3/18/2014	Mercury, Total	ND	0.000005	mg/L		E245.1
	Field Blank 1	H14050278-017	5/13/2014	Mercury, Total	ND	0.000005	mg/L		E245.1
	Field Blank 1	H14060255-017	6/10/2014	Mercury, Total	ND	0.000005	mg/L		E245.1
	Field Blank 1	H14060541-017	6/24/2014	Mercury, Total	ND	0.000005	mg/L		E245.1
	Field Blank 1	H14090349-002	9/16/2014	Mercury, Total	ND	0.000005	mg/L		E245.1
	Field Blank 1	H14120106-002	12/1/2014	Mercury, Total	ND	0.000005	mg/L		E245.1
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Nitrogen, Ammonia as N, mg/L	0.11	0.05	mg/L		E350.1
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Nitrogen, Ammonia as N, mg/L	0.06	0.05	mg/L		E350.1
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Nitrogen, Ammonia as N, mg/L	0.06	0.05	mg/L		E350.1
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CSC	Natural Sample	H14050278-002	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CSC	Natural Sample	H14060255-002	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CSC	Natural Sample	H14060541-002	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SS-25	Natural Sample	H14030285-011	3/19/2014	Nitrogen, Ammonia as N, mg/L	1.08	0.05	mg/L		E350.1

SS-25	Natural Sample	H14050278-010	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SS-25	Natural Sample	H14060255-010	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SS-25	Natural Sample	H14060541-010	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SS-25	Natural Sample	H14090349-011	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
SS-25	Natural Sample	H14120106-011	12/2/2014	Nitrogen, Ammonia as N, mg/L	0.05	0.05	mg/L		E350.1
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 1	H14030285-002	3/18/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 2	H14030285-013	3/19/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 1	H14050278-017	5/13/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 2	H14050278-013	5/14/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 1	H14060255-017	6/10/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 2	H14060255-013	6/11/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 1	H14060541-017	6/24/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 2	H14060541-013	6/25/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 1	H14090349-002	9/16/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 2	H14090349-013	9/17/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 1	H14120106-002	12/1/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
	Field Blank 2	H14120106-013	12/2/2014	Nitrogen, Ammonia as N, mg/L	ND	0.05	mg/L		E350.1
CFR-03A	Natural Sample	H14030285-009	3/19/2014	NO3+NO2 as N, mg/L	0.37	0.05	mg/L		E353.2
CFR-03A	Natural Sample	H14050278-008	5/14/2014	NO3+NO2 as N, mg/L	0.07	0.05	mg/L		E353.2
CFR-03A	Natural Sample	H14060255-008	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-03A	Natural Sample	H14060541-008	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-03A	Natural Sample	H14090349-009	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-03A	Natural Sample	H14120106-009	12/2/2014	NO3+NO2 as N, mg/L	0.2	0.05	mg/L		E353.2
CFR-07D	Natural Sample	H14030285-008	3/19/2014	NO3+NO2 as N, mg/L	0.38	0.05	mg/L		E353.2
CFR-07D	Natural Sample	H14050278-007	5/14/2014	NO3+NO2 as N, mg/L	0.08	0.05	mg/L		E353.2
CFR-07D	Natural Sample	H14060255-007	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-07D	Natural Sample	H14060541-007	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-07D	Natural Sample	H14090349-008	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2

CFR-07D	Natural Sample	H14120106-008	12/2/2014	NO3+NO2 as N, mg/L	0.31	0.05	mg/L		E353.2
CFR-116A	Natural Sample	H14030285-001	3/18/2014	NO3+NO2 as N, mg/L	0.18	0.05	mg/L		E353.2
CFR-116A	Natural Sample	H14050278-001	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-116A	Natural Sample	H14060255-001	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-116A	Natural Sample	H14060541-001	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-116A	Natural Sample	H14090349-001	9/16/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-116A	Natural Sample	H14120106-001	12/1/2014	NO3+NO2 as N, mg/L	0.17	0.05	mg/L		E353.2
CFR-11F	Natural Sample	H14030285-007	3/18/2014	NO3+NO2 as N, mg/L	0.38	0.05	mg/L		E353.2
CFR-11F	Natural Sample	H14050278-006	5/14/2014	NO3+NO2 as N, mg/L	0.08	0.05	mg/L		E353.2
CFR-11F	Natural Sample	H14060255-006	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-11F	Natural Sample	H14060541-006	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-11F	Natural Sample	H14090349-007	9/16/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-11F	Natural Sample	H14120106-007	12/2/2014	NO3+NO2 as N, mg/L	0.32	0.05	mg/L		E353.2
CFR-27H	Natural Sample	H14030285-006	3/18/2014	NO3+NO2 as N, mg/L	0.41	0.05	mg/L		E353.2
CFR-27H	Natural Sample	H14050278-005	5/14/2014	NO3+NO2 as N, mg/L	0.06	0.05	mg/L		E353.2
CFR-27H	Natural Sample	H14060255-005	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-27H	Natural Sample	H14060541-005	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-27H	Natural Sample	H14090349-006	9/16/2014	NO3+NO2 as N, mg/L	0.03	0.05	mg/L		E353.2
CFR-27H	Natural Sample	H14120106-006	12/1/2014	NO3+NO2 as N, mg/L	0.44	0.05	mg/L		E353.2
CFR-42G	Natural Sample	H14050278-004	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-42G	Natural Sample	H14060255-004	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-42G	Natural Sample	H14060541-004	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-84F	Natural Sample	H14050278-016	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-84F	Natural Sample	H14060255-016	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-84F	Natural Sample	H14060541-016	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CSC	Natural Sample	H14050278-002	5/13/2014	NO3+NO2 as N, mg/L	0.29	0.05	mg/L		E353.2
CSC	Natural Sample	H14060255-002	6/10/2014	NO3+NO2 as N, mg/L	0.24	0.05	mg/L		E353.2
CSC	Natural Sample	H14060541-002	6/24/2014	NO3+NO2 as N, mg/L	0.22	0.05	mg/L		E353.2
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	NO3+NO2 as N, mg/L	0.19	0.05	mg/L		E353.2
FC-CFR	Natural Sample	H14030285-003	3/18/2014	NO3+NO2 as N, mg/L	0.19	0.05	mg/L		E353.2
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Natural Sample	H14050278-018	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Natural Sample	H14060255-018	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Natural Sample	H14060541-018	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Natural Sample	H14090349-003	9/16/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	NO3+NO2 as N, mg/L	0.2	0.05	mg/L		E353.2
FC-CFR	Natural Sample	H14120106-003	12/1/2014	NO3+NO2 as N, mg/L	0.21	0.05	mg/L		E353.2
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	NO3+NO2 as N, mg/L	0.06	0.05	mg/L		E353.2
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	NO3+NO2 as N, mg/L	0.07	0.05	mg/L		E353.2
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	NO3+NO2 as N, mg/L	0.07	0.05	mg/L		E353.2
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	NO3+NO2 as N, mg/L	0.11	0.05	mg/L		E353.2
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	NO3+NO2 as N, mg/L	0.12	0.05	mg/L		E353.2
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	NO3+NO2 as N, mg/L	0.11	0.05	mg/L		E353.2
SBC-P2	Natural Sample	H14050278-012	5/14/2014	NO3+NO2 as N, mg/L	0.2	0.05	mg/L		E353.2
SBC-P2	Natural Sample	H14060255-012	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
SBC-P2	Natural Sample	H14060541-012	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
SS-25	Natural Sample	H14030285-011	3/19/2014	NO3+NO2 as N, mg/L	0.44	0.05	mg/L		E353.2

SS-25	Natural Sample	H14050278-010	5/14/2014	NO3+NO2 as N, mg/L	0.13	0.05	mg/L		E353.2
SS-25	Natural Sample	H14060255-010	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
SS-25	Natural Sample	H14060541-010	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
SS-25	Natural Sample	H14090349-011	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
SS-25	Natural Sample	H14120106-011	12/2/2014	NO3+NO2 as N, mg/L	0.26	0.05	mg/L		E353.2
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	NO3+NO2 as N, mg/L	0.13	0.05	mg/L		E353.2
	Field Blank 1	H14030285-002	3/18/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 2	H14030285-013	3/19/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 1	H14050278-017	5/13/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 2	H14050278-013	5/14/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 1	H14060255-017	6/10/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 2	H14060255-013	6/11/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 1	H14060541-017	6/24/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 2	H14060541-013	6/25/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 1	H14090349-002	9/16/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 2	H14090349-013	9/17/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 1	H14120106-002	12/1/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
	Field Blank 2	H14120106-013	12/2/2014	NO3+NO2 as N, mg/L	ND	0.05	mg/L		E353.2
CFR-03A	Natural Sample	H14030285-009	3/19/2014	N-Total, mg/L	0.92	0.05	mg/L		A4500 N-C
CFR-03A	Natural Sample	H14050278-008	5/14/2014	N-Total, mg/L	0.48	0.05	mg/L	B	A4500 N-C
CFR-03A	Natural Sample	H14060255-008	6/11/2014	N-Total, mg/L	0.2	0.05	mg/L		A4500 N-C
CFR-03A	Natural Sample	H14060541-008	6/25/2014	N-Total, mg/L	0.15	0.05	mg/L		A4500 N-C
CFR-03A	Natural Sample	H14090349-009	9/17/2014	N-Total, mg/L	0.22	0.05	mg/L		A4500 N-C
CFR-03A	Natural Sample	H14120106-009	12/2/2014	N-Total, mg/L	0.64	0.05	mg/L	B	A4500 N-C
CFR-07D	Natural Sample	H14030285-008	3/19/2014	N-Total, mg/L	0.86	0.05	mg/L		A4500 N-C
CFR-07D	Natural Sample	H14050278-007	5/14/2014	N-Total, mg/L	0.46	0.05	mg/L	B	A4500 N-C
CFR-07D	Natural Sample	H14060255-007	6/11/2014	N-Total, mg/L	0.19	0.05	mg/L		A4500 N-C
CFR-07D	Natural Sample	H14060541-007	6/25/2014	N-Total, mg/L	0.15	0.05	mg/L		A4500 N-C
CFR-07D	Natural Sample	H14090349-008	9/17/2014	N-Total, mg/L	0.17	0.05	mg/L		A4500 N-C

CFR-07D	Natural Sample	H14120106-008	12/2/2014	N-Total, mg/L	0.7	0.05	mg/L	B	A4500 N-C
CFR-116A	Natural Sample	H14030285-001	3/18/2014	N-Total, mg/L	0.7	0.05	mg/L		A4500 N-C
CFR-116A	Natural Sample	H14050278-001	5/13/2014	N-Total, mg/L	0.29	0.05	mg/L		A4500 N-C
CFR-116A	Natural Sample	H14060255-001	6/10/2014	N-Total, mg/L	0.2	0.05	mg/L		A4500 N-C
CFR-116A	Natural Sample	H14060541-001	6/24/2014	N-Total, mg/L	0.08	0.05	mg/L		A4500 N-C
CFR-116A	Natural Sample	H14090349-001	9/16/2014	N-Total, mg/L	0.1	0.05	mg/L		A4500 N-C
CFR-116A	Natural Sample	H14120106-001	12/1/2014	N-Total, mg/L	0.46	0.05	mg/L		A4500 N-C
CFR-11F	Natural Sample	H14030285-007	3/18/2014	N-Total, mg/L	0.88	0.05	mg/L		A4500 N-C
CFR-11F	Natural Sample	H14050278-006	5/14/2014	N-Total, mg/L	0.39	0.05	mg/L	B	A4500 N-C
CFR-11F	Natural Sample	H14060255-006	6/11/2014	N-Total, mg/L	0.23	0.05	mg/L		A4500 N-C
CFR-11F	Natural Sample	H14060541-006	6/25/2014	N-Total, mg/L	0.19	0.05	mg/L		A4500 N-C
CFR-11F	Natural Sample	H14090349-007	9/16/2014	N-Total, mg/L	0.25	0.05	mg/L		A4500 N-C
CFR-11F	Natural Sample	H14120106-007	12/2/2014	N-Total, mg/L	0.66	0.05	mg/L	B	A4500 N-C
CFR-27H	Natural Sample	H14030285-006	3/18/2014	N-Total, mg/L	0.94	0.05	mg/L		A4500 N-C
CFR-27H	Natural Sample	H14050278-005	5/14/2014	N-Total, mg/L	0.46	0.05	mg/L	B	A4500 N-C
CFR-27H	Natural Sample	H14060255-005	6/10/2014	N-Total, mg/L	0.32	0.05	mg/L		A4500 N-C
CFR-27H	Natural Sample	H14060541-005	6/24/2014	N-Total, mg/L	0.3	0.05	mg/L		A4500 N-C
CFR-27H	Natural Sample	H14090349-006	9/16/2014	N-Total, mg/L	0.32	0.05	mg/L		A4500 N-C
CFR-27H	Natural Sample	H14120106-006	12/1/2014	N-Total, mg/L	0.82	0.05	mg/L		A4500 N-C
CFR-42G	Natural Sample	H14050278-004	5/13/2014	N-Total, mg/L	0.41	0.05	mg/L		A4500 N-C
CFR-42G	Natural Sample	H14060255-004	6/10/2014	N-Total, mg/L	0.37	0.05	mg/L		A4500 N-C
CFR-42G	Natural Sample	H14060541-004	6/24/2014	N-Total, mg/L	0.22	0.05	mg/L		A4500 N-C
CFR-84F	Natural Sample	H14050278-016	5/13/2014	N-Total, mg/L	0.31	0.05	mg/L		A4500 N-C
CFR-84F	Natural Sample	H14060255-016	6/10/2014	N-Total, mg/L	0.31	0.05	mg/L		A4500 N-C
CFR-84F	Natural Sample	H14060541-016	6/24/2014	N-Total, mg/L	0.29	0.05	mg/L		A4500 N-C
CSC	Natural Sample	H14050278-002	5/13/2014	N-Total, mg/L	0.45	0.05	mg/L		A4500 N-C
CSC	Natural Sample	H14060255-002	6/10/2014	N-Total, mg/L	0.29	0.05	mg/L		A4500 N-C
CSC	Natural Sample	H14060541-002	6/24/2014	N-Total, mg/L	0.27	0.05	mg/L		A4500 N-C
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	N-Total, mg/L	0.84	0.05	mg/L		A4500 N-C
FC-CFR	Natural Sample	H14030285-003	3/18/2014	N-Total, mg/L	0.84	0.05	mg/L		A4500 N-C
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	N-Total, mg/L	0.46	0.05	mg/L		A4500 N-C
FC-CFR	Natural Sample	H14050278-018	5/13/2014	N-Total, mg/L	0.39	0.05	mg/L		A4500 N-C
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	N-Total, mg/L	0.48	0.05	mg/L		A4500 N-C
FC-CFR	Natural Sample	H14060255-018	6/10/2014	N-Total, mg/L	0.35	0.05	mg/L		A4500 N-C

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	N-Total, mg/L	0.21	0.05	mg/L		A4500 N-C
FC-CFR	Natural Sample	H14060541-018	6/24/2014	N-Total, mg/L	0.34	0.05	mg/L		A4500 N-C
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	N-Total, mg/L	0.08	0.05	mg/L		A4500 N-C
FC-CFR	Natural Sample	H14090349-003	9/16/2014	N-Total, mg/L	0.28	0.05	mg/L		A4500 N-C
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	N-Total, mg/L	0.4	0.05	mg/L		A4500 N-C
FC-CFR	Natural Sample	H14120106-003	12/1/2014	N-Total, mg/L	0.5	0.05	mg/L		A4500 N-C
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	N-Total, mg/L	0.32	0.05	mg/L		A4500 N-C
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	N-Total, mg/L	0.3	0.05	mg/L		A4500 N-C
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	N-Total, mg/L	0.21	0.05	mg/L		A4500 N-C
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	N-Total, mg/L	0.19	0.05	mg/L		A4500 N-C
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	N-Total, mg/L	0.08	0.05	mg/L		A4500 N-C
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	N-Total, mg/L	0.2	0.05	mg/L		A4500 N-C
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	N-Total, mg/L	0.18	0.05	mg/L		A4500 N-C
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	N-Total, mg/L	0.16	0.05	mg/L		A4500 N-C
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	N-Total, mg/L	0.26	0.05	mg/L	B	A4500 N-C
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	N-Total, mg/L	0.24	0.05	mg/L	B	A4500 N-C
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	N-Total, mg/L	0.21	0.05	mg/L		A4500 N-C
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	N-Total, mg/L	0.15	0.05	mg/L		A4500 N-C
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	N-Total, mg/L	0.21	0.05	mg/L		A4500 N-C
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	N-Total, mg/L	0.19	0.05	mg/L		A4500 N-C
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	N-Total, mg/L	0.45	0.05	mg/L	B	A4500 N-C
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	N-Total, mg/L	0.42	0.05	mg/L	B	A4500 N-C
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	N-Total, mg/L	0.19	0.05	mg/L		A4500 N-C
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	N-Total, mg/L	0.31	0.05	mg/L	B	A4500 N-C
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	N-Total, mg/L	0.13	0.05	mg/L		A4500 N-C
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	N-Total, mg/L	0.16	0.05	mg/L		A4500 N-C
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	N-Total, mg/L	0.31	0.05	mg/L	B	A4500 N-C
SBC-P2	Natural Sample	H14050278-012	5/14/2014	N-Total, mg/L	0.85	0.05	mg/L		A4500 N-C
SBC-P2	Natural Sample	H14060255-012	6/11/2014	N-Total, mg/L	0.41	0.05	mg/L		A4500 N-C
SBC-P2	Natural Sample	H14060541-012	6/25/2014	N-Total, mg/L	0.46	0.05	mg/L		A4500 N-C
SS-25	Natural Sample	H14030285-011	3/19/2014	N-Total, mg/L	1.08	0.05	mg/L		A4500 N-C

SS-25	Natural Sample	H14050278-010	5/14/2014	N-Total, mg/L	0.67	0.05	mg/L	B	A4500 N-C
SS-25	Natural Sample	H14060255-010	6/11/2014	N-Total, mg/L	0.18	0.05	mg/L		A4500 N-C
SS-25	Natural Sample	H14060541-010	6/25/2014	N-Total, mg/L	0.32	0.05	mg/L		A4500 N-C
SS-25	Natural Sample	H14090349-011	9/17/2014	N-Total, mg/L	0.27	0.05	mg/L		A4500 N-C
SS-25	Natural Sample	H14120106-011	12/2/2014	N-Total, mg/L	0.67	0.05	mg/L	B	A4500 N-C
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	N-Total, mg/L	0.06	0.05	mg/L		A4500 N-C
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	N-Total, mg/L	0.22	0.05	mg/L	B	A4500 N-C
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	N-Total, mg/L	0.14	0.05	mg/L		A4500 N-C
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	N-Total, mg/L	0.05	0.05	mg/L		A4500 N-C
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	N-Total, mg/L	0.16	0.05	mg/L	B	A4500 N-C
	Field Blank 1	H14030285-002	3/18/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 2	H14030285-013	3/19/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 1	H14050278-017	5/13/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 2	H14050278-013	5/14/2014	N-Total, mg/L	0.08	0.05	mg/L	B	A4500 N-C
	Field Blank 1	H14060255-017	6/10/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 2	H14060255-013	6/11/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 1	H14060541-017	6/24/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 2	H14060541-013	6/25/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 1	H14090349-002	9/16/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 2	H14090349-013	9/17/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 1	H14120106-002	12/1/2014	N-Total, mg/L	ND	0.05	mg/L		A4500 N-C
	Field Blank 2	H14120106-013	12/2/2014	N-Total, mg/L	0.11	0.05	mg/L		A4500 N-C
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Organic Carbon, Dissolved	4.4	0.5	mg/L		A53310 C
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Organic Carbon, Dissolved	4.2	0.1	mg/L	B	A53310 C
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Organic Carbon, Dissolved	3.1	0.1	mg/L		A53310 C
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Organic Carbon, Dissolved	3.8	0.5	mg/L		A53310 C
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Organic Carbon, Dissolved	3.9	0.5	mg/L		A53310 C
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Organic Carbon, Dissolved	3	0.5	mg/L		A53310 C
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Organic Carbon, Dissolved	3.8	0.5	mg/L		A53310 C
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Organic Carbon, Dissolved	3.8	0.1	mg/L	B	A53310 C
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Organic Carbon, Dissolved	3.2	0.1	mg/L		A53310 C
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Organic Carbon, Dissolved	3.9	0.5	mg/L		A53310 C
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Organic Carbon, Dissolved	3.8	0.5	mg/L		A53310 C

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Organic Carbon, Dissolved	2.7	0.5	mg/L		A53310 C
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Organic Carbon, Dissolved	4.2	0.5	mg/L		A53310 C
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Organic Carbon, Dissolved	4.3	0.1	mg/L	B	A53310 C
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Organic Carbon, Dissolved	3.6	0.1	mg/L	B	A53310 C
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Organic Carbon, Dissolved	3.5	0.5	mg/L	B	A53310 C
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Organic Carbon, Dissolved	2.1	0.5	mg/L		A53310 C
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Organic Carbon, Dissolved	2.7	0.5	mg/L	B	A53310 C
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Organic Carbon, Dissolved	3.5	0.5	mg/L		A53310 C
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Organic Carbon, Dissolved	4.1	0.1	mg/L	B	A53310 C
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Organic Carbon, Dissolved	3.3	0.1	mg/L		A53310 C
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Organic Carbon, Dissolved	4	0.5	mg/L		A53310 C
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Organic Carbon, Dissolved	3.7	0.5	mg/L		A53310 C
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Organic Carbon, Dissolved	2.8	0.5	mg/L		A53310 C
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Organic Carbon, Dissolved	3.1	0.5	mg/L		A53310 C
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Organic Carbon, Dissolved	3.8	0.1	mg/L	B	A53310 C
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Organic Carbon, Dissolved	3.7	0.1	mg/L	B	A53310 C
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Organic Carbon, Dissolved	3.8	0.5	mg/L	B	A53310 C
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Organic Carbon, Dissolved	3.3	0.5	mg/L		A53310 C
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Organic Carbon, Dissolved	3	0.5	mg/L	B	A53310 C
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Organic Carbon, Dissolved	3.8	0.1	mg/L	B	A53310 C
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Organic Carbon, Dissolved	4	0.1	mg/L		A53310 C
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Organic Carbon, Dissolved	4.5	0.5	mg/L	B	A53310 C
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Organic Carbon, Dissolved	4.2	0.1	mg/L	B	A53310 C
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Organic Carbon, Dissolved	3.6	0.1	mg/L	B	A53310 C
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Organic Carbon, Dissolved	3.9	0.5	mg/L	B	A53310 C
CSC	Natural Sample	H14050278-002	5/13/2014	Organic Carbon, Dissolved	0.9	0.1	mg/L	B	A53310 C
CSC	Natural Sample	H14060255-002	6/10/2014	Organic Carbon, Dissolved	0.9	0.1	mg/L	B	A53310 C
CSC	Natural Sample	H14060541-002	6/24/2014	Organic Carbon, Dissolved	1.1	0.5	mg/L	B	A53310 C
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Organic Carbon, Dissolved	5.2	0.5	mg/L		A53310 C
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Organic Carbon, Dissolved	5.3	0.5	mg/L		A53310 C
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Organic Carbon, Dissolved	4.9	0.1	mg/L	B	A53310 C
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Organic Carbon, Dissolved	4.8	0.1	mg/L	B	A53310 C
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Organic Carbon, Dissolved	3.9	0.1	mg/L	B	A53310 C
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Organic Carbon, Dissolved	3.9	0.1	mg/L	B	A53310 C

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Organic Carbon, Dissolved	4.9	0.5	mg/L	B	A53310 C
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Organic Carbon, Dissolved	4.7	0.5	mg/L	B	A53310 C
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Organic Carbon, Dissolved	2.9	0.5	mg/L		A53310 C
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Organic Carbon, Dissolved	2.9	0.5	mg/L		A53310 C
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Organic Carbon, Dissolved	2.3	0.5	mg/L	B	A53310 C
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Organic Carbon, Dissolved	2.3	0.5	mg/L	B	A53310 C
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Organic Carbon, Dissolved	3.8	0.5	mg/L		A53310 C
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Organic Carbon, Dissolved	4.4	0.1	mg/L		A53310 C
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Organic Carbon, Dissolved	4.3	0.1	mg/L		A53310 C
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Organic Carbon, Dissolved	4.4	0.5	mg/L	B	A53310 C
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Organic Carbon, Dissolved	2	0.5	mg/L		A53310 C
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Organic Carbon, Dissolved	2.1	0.5	mg/L	B	A53310 C
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Organic Carbon, Dissolved	2	0.5	mg/L		A53310 C
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Organic Carbon, Dissolved	2	0.5	mg/L		A53310 C
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Organic Carbon, Dissolved	4	0.1	mg/L	B	A53310 C
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Organic Carbon, Dissolved	3.9	0.1	mg/L	B	A53310 C
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Organic Carbon, Dissolved	2.9	0.1	mg/L	B	A53310 C
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Organic Carbon, Dissolved	2.8	0.1	mg/L	B	A53310 C
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Organic Carbon, Dissolved	3.4	0.5	mg/L		A53310 C
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Organic Carbon, Dissolved	3.7	0.5	mg/L		A53310 C
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Organic Carbon, Dissolved	1.8	0.5	mg/L		A53310 C
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Organic Carbon, Dissolved	1.9	0.5	mg/L		A53310 C
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Organic Carbon, Dissolved	1.7	0.5	mg/L		A53310 C
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Organic Carbon, Dissolved	1.7	0.5	mg/L		A53310 C
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Organic Carbon, Dissolved	2.4	0.5	mg/L		A53310 C
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Organic Carbon, Dissolved	4	0.1	mg/L	B	A53310 C
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Organic Carbon, Dissolved	3	0.1	mg/L		A53310 C
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Organic Carbon, Dissolved	3.7	0.5	mg/L		A53310 C
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Organic Carbon, Dissolved	2.2	0.5	mg/L		A53310 C
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Organic Carbon, Dissolved	2.5	0.5	mg/L		A53310 C
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Organic Carbon, Dissolved	5.3	0.1	mg/L		A53310 C
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Organic Carbon, Dissolved	7	0.1	mg/L		A53310 C
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Organic Carbon, Dissolved	7.2	0.5	mg/L		A53310 C
SS-25	Natural Sample	H14030285-011	3/19/2014	Organic Carbon, Dissolved	5	0.5	mg/L		A53310 C

SS-25	Natural Sample	H14050278-010	5/14/2014	Organic Carbon, Dissolved	4.9	0.1	mg/L	B	A53310 C
SS-25	Natural Sample	H14060255-010	6/11/2014	Organic Carbon, Dissolved	3.7	0.1	mg/L		A53310 C
SS-25	Natural Sample	H14060541-010	6/25/2014	Organic Carbon, Dissolved	5.1	0.5	mg/L		A53310 C
SS-25	Natural Sample	H14090349-011	9/17/2014	Organic Carbon, Dissolved	4.9	0.5	mg/L		A53310 C
SS-25	Natural Sample	H14120106-011	12/2/2014	Organic Carbon, Dissolved	3.7	0.5	mg/L		A53310 C
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Organic Carbon, Dissolved	1.4	0.5	mg/L		A53310 C
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Organic Carbon, Dissolved	1.7	0.1	mg/L	B	A53310 C
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Organic Carbon, Dissolved	2.2	0.1	mg/L	B	A53310 C
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Organic Carbon, Dissolved	2.1	0.5	mg/L		A53310 C
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Organic Carbon, Dissolved	1.5	0.5	mg/L		A53310 C
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Organic Carbon, Dissolved	1.1	0.5	mg/L		A53310 C
	Field Blank 1	H14030285-002	3/18/2014	Organic Carbon, Dissolved	ND	0.5	mg/L		A53310 C
	Field Blank 2	H14030285-013	3/19/2014	Organic Carbon, Dissolved	ND	0.5	mg/L		A53310 C
	Field Blank 1	H14050278-017	5/13/2014	Organic Carbon, Dissolved	0.4	0.1	mg/L	B	A53310 C
	Field Blank 2	H14050278-013	5/14/2014	Organic Carbon, Dissolved	0.5	0.1	mg/L	B	A53310 C
	Field Blank 1	H14060255-017	6/10/2014	Organic Carbon, Dissolved	0.4	0.1	mg/L	B	A53310 C
	Field Blank 2	H14060255-013	6/11/2014	Organic Carbon, Dissolved	0.3	0.1	mg/L	B	A53310 C
	Field Blank 1	H14060541-017	6/24/2014	Organic Carbon, Dissolved	0.5	0.5	mg/L	B	A53310 C
	Field Blank 2	H14060541-013	6/25/2014	Organic Carbon, Dissolved	ND	0.5	mg/L		A53310 C
	Field Blank 1	H14090349-002	9/16/2014	Organic Carbon, Dissolved	ND	0.5	mg/L		A53310 C
	Field Blank 2	H14090349-013	9/17/2014	Organic Carbon, Dissolved	ND	0.5	mg/L		A53310 C
	Field Blank 1	H14120106-002	12/1/2014	Organic Carbon, Dissolved	0.5	0.5	mg/L	B	A53310 C
	Field Blank 2	H14120106-013	12/2/2014	Organic Carbon, Dissolved	ND	0.5	mg/L	B	A53310 C
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Phosphorus, Total as P, mg/L	0.08	0.005	mg/L		E365.1
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Phosphorus, Total as P, mg/L	0.029	0.005	mg/L		E365.1
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Phosphorus, Total as P, mg/L	0.027	0.005	mg/L		E365.1
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Phosphorus, Total as P, mg/L	0.027	0.005	mg/L		E365.1
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Phosphorus, Total as P, mg/L	0.044	0.005	mg/L		E365.1
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Phosphorus, Total as P, mg/L	0.032	0.005	mg/L	B	E365.1
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Phosphorus, Total as P, mg/L	0.067	0.005	mg/L		E365.1
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Phosphorus, Total as P, mg/L	0.027	0.005	mg/L		E365.1
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Phosphorus, Total as P, mg/L	0.03	0.005	mg/L		E365.1
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Phosphorus, Total as P, mg/L	0.027	0.005	mg/L		E365.1
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Phosphorus, Total as P, mg/L	0.035	0.005	mg/L		E365.1

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Phosphorus, Total as P, mg/L	0.023	0.005	mg/L	B	E365.1
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Phosphorus, Total as P, mg/L	0.128	0.005	mg/L		E365.1
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Phosphorus, Total as P, mg/L	0.036	0.005	mg/L		E365.1
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Phosphorus, Total as P, mg/L	0.037	0.005	mg/L		E365.1
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Phosphorus, Total as P, mg/L	0.026	0.005	mg/L		E365.1
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Phosphorus, Total as P, mg/L	0.017	0.005	mg/L		E365.1
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Phosphorus, Total as P, mg/L	0.037	0.005	mg/L		E365.1
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Phosphorus, Total as P, mg/L	0.064	0.005	mg/L		E365.1
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Phosphorus, Total as P, mg/L	0.025	0.005	mg/L		E365.1
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Phosphorus, Total as P, mg/L	0.028	0.005	mg/L		E365.1
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Phosphorus, Total as P, mg/L	0.025	0.005	mg/L		E365.1
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Phosphorus, Total as P, mg/L	0.037	0.005	mg/L		E365.1
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Phosphorus, Total as P, mg/L	0.024	0.005	mg/L	B	E365.1
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Phosphorus, Total as P, mg/L	0.091	0.005	mg/L		E365.1
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Phosphorus, Total as P, mg/L	0.029	0.005	mg/L		E365.1
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Phosphorus, Total as P, mg/L	0.045	0.005	mg/L		E365.1
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Phosphorus, Total as P, mg/L	0.031	0.005	mg/L		E365.1
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Phosphorus, Total as P, mg/L	0.028	0.005	mg/L		E365.1
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Phosphorus, Total as P, mg/L	0.031	0.005	mg/L		E365.1
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Phosphorus, Total as P, mg/L	0.03	0.005	mg/L		E365.1
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Phosphorus, Total as P, mg/L	0.066	0.005	mg/L		E365.1
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Phosphorus, Total as P, mg/L	0.046	0.005	mg/L		E365.1
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Phosphorus, Total as P, mg/L	0.043	0.005	mg/L		E365.1
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Phosphorus, Total as P, mg/L	0.051	0.005	mg/L		E365.1
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Phosphorus, Total as P, mg/L	0.047	0.005	mg/L		E365.1
CSC	Natural Sample	H14050278-002	5/13/2014	Phosphorus, Total as P, mg/L	0.012	0.005	mg/L		E365.1
CSC	Natural Sample	H14060255-002	6/10/2014	Phosphorus, Total as P, mg/L	0.014	0.005	mg/L		E365.1
CSC	Natural Sample	H14060541-002	6/24/2014	Phosphorus, Total as P, mg/L	0.01	0.005	mg/L		E365.1
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Phosphorus, Total as P, mg/L	0.146	0.005	mg/L		E365.1
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Phosphorus, Total as P, mg/L	0.144	0.005	mg/L		E365.1
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Phosphorus, Total as P, mg/L	0.044	0.005	mg/L		E365.1
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Phosphorus, Total as P, mg/L	0.045	0.005	mg/L		E365.1
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Phosphorus, Total as P, mg/L	0.045	0.005	mg/L		E365.1
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Phosphorus, Total as P, mg/L	0.046	0.005	mg/L		E365.1

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Phosphorus, Total as P, mg/L	0.049	0.005	mg/L		E365.1
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Phosphorus, Total as P, mg/L	0.048	0.005	mg/L		E365.1
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Phosphorus, Total as P, mg/L	0.046	0.005	mg/L		E365.1
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Phosphorus, Total as P, mg/L	0.046	0.005	mg/L		E365.1
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Phosphorus, Total as P, mg/L	0.048	0.005	mg/L		E365.1
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Phosphorus, Total as P, mg/L	0.046	0.005	mg/L		E365.1
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Phosphorus, Total as P, mg/L	0.074	0.005	mg/L		E365.1
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Phosphorus, Total as P, mg/L	0.033	0.005	mg/L		E365.1
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Phosphorus, Total as P, mg/L	0.033	0.005	mg/L		E365.1
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Phosphorus, Total as P, mg/L	0.028	0.005	mg/L		E365.1
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Phosphorus, Total as P, mg/L	0.019	0.005	mg/L		E365.1
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Phosphorus, Total as P, mg/L	0.034	0.005	mg/L		E365.1
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Phosphorus, Total as P, mg/L	0.03	0.005	mg/L		E365.1
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Phosphorus, Total as P, mg/L	0.031	0.005	mg/L		E365.1
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Phosphorus, Total as P, mg/L	0.031	0.005	mg/L		E365.1
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Phosphorus, Total as P, mg/L	0.032	0.005	mg/L		E365.1
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Phosphorus, Total as P, mg/L	0.026	0.005	mg/L		E365.1
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Phosphorus, Total as P, mg/L	0.026	0.005	mg/L		E365.1
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Phosphorus, Total as P, mg/L	0.028	0.005	mg/L		E365.1
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Phosphorus, Total as P, mg/L	0.034	0.005	mg/L		E365.1
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Phosphorus, Total as P, mg/L	0.017	0.005	mg/L		E365.1
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Phosphorus, Total as P, mg/L	0.018	0.005	mg/L		E365.1
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Phosphorus, Total as P, mg/L	0.058	0.005	mg/L		E365.1
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Phosphorus, Total as P, mg/L	0.059	0.005	mg/L		E365.1
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Phosphorus, Total as P, mg/L	0.027	0.005	mg/L		E365.1
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Phosphorus, Total as P, mg/L	0.03	0.005	mg/L		E365.1
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Phosphorus, Total as P, mg/L	0.025	0.005	mg/L		E365.1
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Phosphorus, Total as P, mg/L	0.033	0.005	mg/L		E365.1
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Phosphorus, Total as P, mg/L	0.014	0.005	mg/L		E365.1
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Phosphorus, Total as P, mg/L	0.021	0.005	mg/L	B	E365.1
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Phosphorus, Total as P, mg/L	0.035	0.005	mg/L		E365.1
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Phosphorus, Total as P, mg/L	0.084	0.005	mg/L		E365.1
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Phosphorus, Total as P, mg/L	0.074	0.005	mg/L		E365.1
SS-25	Natural Sample	H14030285-011	3/19/2014	Phosphorus, Total as P, mg/L	0.113	0.005	mg/L		E365.1

SS-25	Natural Sample	H14050278-010	5/14/2014	Phosphorus, Total as P, mg/L	0.031	0.005	mg/L		E365.1
SS-25	Natural Sample	H14060255-010	6/11/2014	Phosphorus, Total as P, mg/L	0.037	0.005	mg/L		E365.1
SS-25	Natural Sample	H14060541-010	6/25/2014	Phosphorus, Total as P, mg/L	0.045	0.005	mg/L		E365.1
SS-25	Natural Sample	H14090349-011	9/17/2014	Phosphorus, Total as P, mg/L	0.067	0.005	mg/L		E365.1
SS-25	Natural Sample	H14120106-011	12/2/2014	Phosphorus, Total as P, mg/L	0.039	0.005	mg/L	B	E365.1
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Phosphorus, Total as P, mg/L	0.008	0.005	mg/L		E365.1
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Phosphorus, Total as P, mg/L	0.009	0.005	mg/L		E365.1
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Phosphorus, Total as P, mg/L	0.013	0.005	mg/L		E365.1
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Phosphorus, Total as P, mg/L	0.009	0.005	mg/L		E365.1
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Phosphorus, Total as P, mg/L	0.008	0.005	mg/L		E365.1
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Phosphorus, Total as P, mg/L	0.015	0.005	mg/L	B	E365.1
	Field Blank 1	H14030285-002	3/18/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 2	H14030285-013	3/19/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 1	H14050278-017	5/13/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 2	H14050278-013	5/14/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 1	H14060255-017	6/10/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 2	H14060255-013	6/11/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 1	H14060541-017	6/24/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 2	H14060541-013	6/25/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 1	H14090349-002	9/16/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 2	H14090349-013	9/17/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 1	H14120106-002	12/1/2014	Phosphorus, Total as P, mg/L	ND	0.005	mg/L		E365.1
	Field Blank 2	H14120106-013	12/2/2014	Phosphorus, Total as P, mg/L	0.005	0.005	mg/L		E365.1
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Solids, Total Suspended TSS @ 105 C	5	1	mg/L		A2540 D
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L	B	A2540 D
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Solids, Total Suspended TSS @ 105 C	10	1	mg/L		A2540 D
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Solids, Total Suspended TSS @ 105 C	10	2	mg/L		A2540 D
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Solids, Total Suspended TSS @ 105 C	1	1	mg/L		A2540 D
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Solids, Total Suspended TSS @ 105 C	4	1	mg/L		A2540 D
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Solids, Total Suspended TSS @ 105 C	13	1	mg/L		A2540 D
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Solids, Total Suspended TSS @ 105 C	9	1	mg/L	B	A2540 D
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Solids, Total Suspended TSS @ 105 C	16	1	mg/L		A2540 D
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Solids, Total Suspended TSS @ 105 C	12	2	mg/L		A2540 D
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L		A2540 D
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Solids, Total Suspended TSS @ 105 C	39	1	mg/L		A2540 D
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Solids, Total Suspended TSS @ 105 C	18	1	mg/L		A2540 D
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Solids, Total Suspended TSS @ 105 C	22	1	mg/L	B	A2540 D
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Solids, Total Suspended TSS @ 105 C	12	2	mg/L		A2540 D
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Solids, Total Suspended TSS @ 105 C	7	1	mg/L		A2540 D
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Solids, Total Suspended TSS @ 105 C	19	1	mg/L		A2540 D
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L	B	A2540 D
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Solids, Total Suspended TSS @ 105 C	13	1	mg/L		A2540 D
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Solids, Total Suspended TSS @ 105 C	11	2	mg/L		A2540 D
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Solids, Total Suspended TSS @ 105 C	5	1	mg/L		A2540 D
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Solids, Total Suspended TSS @ 105 C	45	1	mg/L		A2540 D
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Solids, Total Suspended TSS @ 105 C	13	1	mg/L	B	A2540 D
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Solids, Total Suspended TSS @ 105 C	25	1	mg/L	B	A2540 D
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Solids, Total Suspended TSS @ 105 C	20	2	mg/L		A2540 D
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Solids, Total Suspended TSS @ 105 C	18	1	mg/L		A2540 D
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Solids, Total Suspended TSS @ 105 C	21	1	mg/L		A2540 D
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Solids, Total Suspended TSS @ 105 C	30	1	mg/L		A2540 D
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Solids, Total Suspended TSS @ 105 C	23	2	mg/L		A2540 D
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Solids, Total Suspended TSS @ 105 C	30	1	mg/L		A2540 D
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Solids, Total Suspended TSS @ 105 C	20	1	mg/L	B	A2540 D
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Solids, Total Suspended TSS @ 105 C	18	2	mg/L		A2540 D
CSC	Natural Sample	H14050278-002	5/13/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
CSC	Natural Sample	H14060255-002	6/10/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L	B	A2540 D
CSC	Natural Sample	H14060541-002	6/24/2014	Solids, Total Suspended TSS @ 105 C	ND	2	mg/L		A2540 D
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Solids, Total Suspended TSS @ 105 C	22	1	mg/L		A2540 D
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Solids, Total Suspended TSS @ 105 C	23	1	mg/L		A2540 D
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Solids, Total Suspended TSS @ 105 C	16	1	mg/L		A2540 D
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Solids, Total Suspended TSS @ 105 C	16	1	mg/L		A2540 D
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Solids, Total Suspended TSS @ 105 C	15	1	mg/L	B	A2540 D
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Solids, Total Suspended TSS @ 105 C	18	1	mg/L	B	A2540 D

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Solids, Total Suspended TSS @ 105 C	ND	2	mg/L		A2540 D
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Solids, Total Suspended TSS @ 105 C	13	2	mg/L		A2540 D
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Solids, Total Suspended TSS @ 105 C	5	1	mg/L		A2540 D
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Solids, Total Suspended TSS @ 105 C	4	1	mg/L		A2540 D
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Solids, Total Suspended TSS @ 105 C	10	1	mg/L		A2540 D
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Solids, Total Suspended TSS @ 105 C	4	1	mg/L	B	A2540 D
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Solids, Total Suspended TSS @ 105 C	4	2	mg/L		A2540 D
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Solids, Total Suspended TSS @ 105 C	1	1	mg/L		A2540 D
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L		A2540 D
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Solids, Total Suspended TSS @ 105 C	6	1	mg/L		A2540 D
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L	B	A2540 D
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Solids, Total Suspended TSS @ 105 C	5	1	mg/L	B	A2540 D
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Solids, Total Suspended TSS @ 105 C	8	1	mg/L		A2540 D
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Solids, Total Suspended TSS @ 105 C	10	2	mg/L		A2540 D
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Solids, Total Suspended TSS @ 105 C	18	2	mg/L		A2540 D
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Solids, Total Suspended TSS @ 105 C	35	1	mg/L		A2540 D
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Solids, Total Suspended TSS @ 105 C	37	1	mg/L		A2540 D
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Solids, Total Suspended TSS @ 105 C	4	1	mg/L		A2540 D
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L	B	A2540 D
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Solids, Total Suspended TSS @ 105 C	5	1	mg/L		A2540 D
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Solids, Total Suspended TSS @ 105 C	18	2	mg/L		A2540 D
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L		A2540 D
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L	B	A2540 D
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Solids, Total Suspended TSS @ 105 C	ND	2	mg/L		A2540 D
SS-25	Natural Sample	H14030285-011	3/19/2014	Solids, Total Suspended TSS @ 105 C	7	1	mg/L		A2540 D

SS-25	Natural Sample	H14050278-010	5/14/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L	B	A2540 D
SS-25	Natural Sample	H14060255-010	6/11/2014	Solids, Total Suspended TSS @ 105 C	6	1	mg/L		A2540 D
SS-25	Natural Sample	H14060541-010	6/25/2014	Solids, Total Suspended TSS @ 105 C	7	2	mg/L		A2540 D
SS-25	Natural Sample	H14090349-011	9/17/2014	Solids, Total Suspended TSS @ 105 C	1	1	mg/L		A2540 D
SS-25	Natural Sample	H14120106-011	12/2/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L	B	A2540 D
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Solids, Total Suspended TSS @ 105 C	11	1	mg/L		A2540 D
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Solids, Total Suspended TSS @ 105 C	11	2	mg/L		A2540 D
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Solids, Total Suspended TSS @ 105 C	2	1	mg/L		A2540 D
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Solids, Total Suspended TSS @ 105 C	5	1	mg/L		A2540 D
	Field Blank 1	H14030285-002	3/18/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 2	H14030285-013	3/19/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 1	H14050278-017	5/13/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 2	H14050278-013	5/14/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L	B	A2540 D
	Field Blank 1	H14060255-017	6/10/2014	Solids, Total Suspended TSS @ 105 C	3	1	mg/L	B	A2540 D
	Field Blank 2	H14060255-013	6/11/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 1	H14060541-017	6/24/2014	Solids, Total Suspended TSS @ 105 C	ND	2	mg/L		A2540 D
	Field Blank 2	H14060541-013	6/25/2014	Solids, Total Suspended TSS @ 105 C	ND	2	mg/L		A2540 D
	Field Blank 1	H14090349-002	9/16/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 2	H14090349-013	9/17/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 1	H14120106-002	12/1/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
	Field Blank 2	H14120106-013	12/2/2014	Solids, Total Suspended TSS @ 105 C	ND	1	mg/L		A2540 D
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Sulfate	120	1	mg/L		E300.0
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Sulfate	68	1	mg/L		E300.0
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Sulfate	24	1	mg/L		E300.0
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Sulfate	36	1	mg/L		E300.0
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Sulfate	69	1	mg/L		E300.0
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Sulfate	120	1	mg/L		E300.0
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Sulfate	130	1	mg/L		E300.0
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Sulfate	81	1	mg/L		E300.0
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Sulfate	30	1	mg/L		E300.0
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Sulfate	40	1	mg/L		E300.0
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Sulfate	78	1	mg/L		E300.0

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Sulfate	120	1	mg/L		E300.0
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Sulfate	48	1	mg/L		E300.0
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Sulfate	20	1	mg/L		E300.0
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Sulfate	13	1	mg/L		E300.0
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Sulfate	19	1	mg/L		E300.0
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Sulfate	43	1	mg/L		E300.0
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Sulfate	45	1	mg/L		E300.0
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Sulfate	130	1	mg/L		E300.0
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Sulfate	79	1	mg/L		E300.0
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Sulfate	32	1	mg/L		E300.0
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Sulfate	43	1	mg/L		E300.0
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Sulfate	79	1	mg/L		E300.0
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Sulfate	130	1	mg/L		E300.0
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Sulfate	110	1	mg/L		E300.0
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Sulfate	73	1	mg/L		E300.0
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Sulfate	33	1	mg/L		E300.0
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Sulfate	35	1	mg/L		E300.0
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Sulfate	63	1	mg/L		E300.0
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Sulfate	100	1	mg/L		E300.0
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Sulfate	71	1	mg/L		E300.0
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Sulfate	36	1	mg/L		E300.0
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Sulfate	37	1	mg/L		E300.0
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Sulfate	38	1	mg/L		E300.0
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Sulfate	37	1	mg/L		E300.0
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Sulfate	37	1	mg/L		E300.0
CSC	Natural Sample	H14050278-002	5/13/2014	Sulfate	31	1	mg/L		E300.0
CSC	Natural Sample	H14060255-002	6/10/2014	Sulfate	28	1	mg/L		E300.0
CSC	Natural Sample	H14060541-002	6/24/2014	Sulfate	28	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Sulfate	17	1	mg/L		E300.0
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Sulfate	17	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Sulfate	9	1	mg/L		E300.0
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Sulfate	9	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Sulfate	7	1	mg/L		E300.0
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Sulfate	7	1	mg/L		E300.0

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Sulfate	8	1	mg/L		E300.0
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Sulfate	8	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Sulfate	19	1	mg/L		E300.0
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Sulfate	19	1	mg/L		E300.0
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Sulfate	16	1	mg/L		E300.0
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Sulfate	16	1	mg/L		E300.0
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Sulfate	16	1	mg/L		E300.0
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Sulfate	8	1	mg/L		E300.0
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Sulfate	8	1	mg/L		E300.0
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Sulfate	8	1	mg/L		E300.0
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Sulfate	10	1	mg/L		E300.0
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Sulfate	13	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Sulfate	36	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Sulfate	38	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Sulfate	12	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Sulfate	12	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Sulfate	6	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Sulfate	5	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Sulfate	25	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Sulfate	6	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Sulfate	15	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Sulfate	15	1	mg/L		E300.0
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Sulfate	24	1	mg/L		E300.0
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Sulfate	24	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Sulfate	160	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Sulfate	51	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Sulfate	23	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Sulfate	6	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Sulfate	100	1	mg/L		E300.0
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Sulfate	190	1	mg/L		E300.0
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Sulfate	78	1	mg/L		E300.0
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Sulfate	50	1	mg/L		E300.0
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Sulfate	52	1	mg/L		E300.0
SS-25	Natural Sample	H14030285-011	3/19/2014	Sulfate	110	1	mg/L		E300.0

SS-25	Natural Sample	H14050278-010	5/14/2014	Sulfate	69	1	mg/L		E300.0
SS-25	Natural Sample	H14060255-010	6/11/2014	Sulfate	29	1	mg/L		E300.0
SS-25	Natural Sample	H14060541-010	6/25/2014	Sulfate	36	1	mg/L		E300.0
SS-25	Natural Sample	H14090349-011	9/17/2014	Sulfate	83	1	mg/L		E300.0
SS-25	Natural Sample	H14120106-011	12/2/2014	Sulfate	140	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Sulfate	84	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Sulfate	43	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Sulfate	13	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Sulfate	13	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Sulfate	38	1	mg/L		E300.0
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Sulfate	40	1	mg/L		E300.0
	Field Blank 1	H14030285-002	3/18/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 2	H14030285-013	3/19/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 1	H14050278-017	5/13/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 2	H14050278-013	5/14/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 1	H14060255-017	6/10/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 2	H14060255-013	6/11/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 1	H14060541-017	6/24/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 2	H14060541-013	6/25/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 1	H14090349-002	9/16/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 2	H14090349-013	9/17/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 1	H14120106-002	12/1/2014	Sulfate	ND	1	mg/L		E300.0
	Field Blank 2	H14120106-013	12/2/2014	Sulfate	ND	1	mg/L		E300.0
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Zinc, Dissolved	0.014	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Zinc, Dissolved	0.013	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Zinc, Dissolved	0.014	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Zinc, Dissolved	0.016	0.008	mg/L	B	E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Zinc, Dissolved	0.009	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Zinc, Dissolved	0.017	0.008	mg/L	B	E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Zinc, Dissolved	0.012	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Zinc, Dissolved	0.015	0.008	mg/L	B	E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Zinc, Dissolved	0.008	0.008	mg/L	B	E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Zinc, Dissolved	0.014	0.008	mg/L	B	E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Zinc, Dissolved	0.013	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Zinc, Dissolved	0.012	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Zinc, Dissolved	0.017	0.008	mg/L	B	E200.8
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Zinc, Dissolved	0.021	0.008	mg/L	B	E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Zinc, Dissolved	0.013	0.008	mg/L	B	E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Zinc, Dissolved	0.014	0.008	mg/L	B	E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Zinc, Dissolved	0.013	0.008	mg/L	B	E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Zinc, Dissolved	0.013	0.008	mg/L	B	E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Zinc, Dissolved	0.017	0.008	mg/L	B	E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Zinc, Dissolved	0.016	0.008	mg/L	B	E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Zinc, Dissolved	0.018	0.008	mg/L	B	E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Zinc, Dissolved	0.013	0.008	mg/L	B	E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Zinc, Dissolved	0.013	0.008	mg/L	B	E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Zinc, Dissolved	0.019	0.008	mg/L	B	E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Zinc, Dissolved	0.010	0.008	mg/L	B	E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Zinc, Dissolved	0.014	0.008	mg/L	B	E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Zinc, Dissolved	0.014	0.008	mg/L	B	E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Zinc, Dissolved	0.016	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Zinc, Dissolved	0.014	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Zinc, Dissolved	0.022	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Zinc, Dissolved	0.01	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Zinc, Dissolved	0.011	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Zinc, Dissolved	0.01	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Zinc, Dissolved	0.01	0.008	mg/L	B	E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Zinc, Dissolved	0.012	0.008	mg/L		E200.8

SS-25	Natural Sample	H14050278-010	5/14/2014	Zinc, Dissolved	0.008	0.008	mg/L	B	E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Zinc, Dissolved	0.008	0.008	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Zinc, Dissolved	0.02	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Zinc, Dissolved	0.009	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Zinc, Dissolved	0.017	0.008	mg/L	B	E200.8
	Field Blank 2	H14030285-013	3/19/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Zinc, Dissolved	0.019	0.008	mg/L	B	E200.8
	Field Blank 2	H14050278-013	5/14/2014	Zinc, Dissolved	0.011	0.008	mg/L	B	E200.8
	Field Blank 1	H14060255-017	6/10/2014	Zinc, Dissolved	0.014	0.008	mg/L	B	E200.8
	Field Blank 2	H14060255-013	6/11/2014	Zinc, Dissolved	ND	0.008	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
	Field Blank 2	H14060541-013	6/25/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
	Field Blank 1	H14090349-002	9/16/2014	Zinc, Dissolved	0.014	0.008	mg/L	B	E200.8
	Field Blank 2	H14090349-013	9/17/2014	Zinc, Dissolved	0.012	0.008	mg/L	B	E200.8
	Field Blank 1	H14120106-002	12/1/2014	Zinc, Dissolved	0.009	0.008	mg/L	B	E200.8
	Field Blank 2	H14120106-013	12/2/2014	Zinc, Dissolved	ND	0.008	mg/L	B	E200.8
CFR-03A	Natural Sample	H14030285-009	3/19/2014	Zinc, Total Recoverable	0.037	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14050278-008	5/14/2014	Zinc, Total Recoverable	0.014	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14060255-008	6/11/2014	Zinc, Total Recoverable	0.011	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14060541-008	6/25/2014	Zinc, Total Recoverable	0.013	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14090349-009	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
CFR-03A	Natural Sample	H14120106-009	12/2/2014	Zinc, Total Recoverable	0.019	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14030285-008	3/19/2014	Zinc, Total Recoverable	0.036	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14050278-007	5/14/2014	Zinc, Total Recoverable	0.021	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14060255-007	6/11/2014	Zinc, Total Recoverable	0.018	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14060541-007	6/25/2014	Zinc, Total Recoverable	0.027	0.008	mg/L		E200.8
CFR-07D	Natural Sample	H14090349-008	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8

CFR-07D	Natural Sample	H14120106-008	12/2/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14030285-001	3/18/2014	Zinc, Total Recoverable	0.06	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14050278-001	5/13/2014	Zinc, Total Recoverable	0.027	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14060255-001	6/10/2014	Zinc, Total Recoverable	0.019	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14060541-001	6/24/2014	Zinc, Total Recoverable	0.016	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14090349-001	9/16/2014	Zinc, Total Recoverable	0.011	0.008	mg/L		E200.8
CFR-116A	Natural Sample	H14120106-001	12/1/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14030285-007	3/18/2014	Zinc, Total Recoverable	0.041	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14050278-006	5/14/2014	Zinc, Total Recoverable	0.023	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14060255-006	6/11/2014	Zinc, Total Recoverable	0.021	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14060541-006	6/25/2014	Zinc, Total Recoverable	0.02	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14090349-007	9/16/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
CFR-11F	Natural Sample	H14120106-007	12/2/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14030285-006	3/18/2014	Zinc, Total Recoverable	0.075	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14050278-005	5/14/2014	Zinc, Total Recoverable	0.033	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14060255-005	6/10/2014	Zinc, Total Recoverable	0.04	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14060541-005	6/24/2014	Zinc, Total Recoverable	0.035	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14090349-006	9/16/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
CFR-27H	Natural Sample	H14120106-006	12/1/2014	Zinc, Total Recoverable	0.027	0.008	mg/L		E200.8
CFR-42G	Natural Sample	H14050278-004	5/13/2014	Zinc, Total Recoverable	0.034	0.008	mg/L		E200.8
CFR-42G	Natural Sample	H14060255-004	6/10/2014	Zinc, Total Recoverable	0.049	0.008	mg/L		E200.8
CFR-42G	Natural Sample	H14060541-004	6/24/2014	Zinc, Total Recoverable	0.039	0.008	mg/L		E200.8
CFR-84F	Natural Sample	H14050278-016	5/13/2014	Zinc, Total Recoverable	0.038	0.008	mg/L		E200.8
CFR-84F	Natural Sample	H14060255-016	6/10/2014	Zinc, Total Recoverable	0.03	0.008	mg/L		E200.8
CFR-84F	Natural Sample	H14060541-016	6/24/2014	Zinc, Total Recoverable	0.027	0.008	mg/L		E200.8
CSC	Natural Sample	H14050278-002	5/13/2014	Zinc, Total Recoverable	0.01	0.008	mg/L		E200.8
CSC	Natural Sample	H14060255-002	6/10/2014	Zinc, Total Recoverable	0.011	0.008	mg/L		E200.8
CSC	Natural Sample	H14060541-002	6/24/2014	Zinc, Total Recoverable	0.011	0.008	mg/L		E200.8
FC-CFR	Duplicate Sample	H14030285-004	3/18/2014	Zinc, Total Recoverable	0.032	0.008	mg/L		E200.8
FC-CFR	Natural Sample	H14030285-003	3/18/2014	Zinc, Total Recoverable	0.029	0.008	mg/L		E200.8
FC-CFR	Duplicate Sample	H14050278-019	5/13/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
FC-CFR	Natural Sample	H14050278-018	5/13/2014	Zinc, Total Recoverable	0.016	0.008	mg/L		E200.8
FC-CFR	Duplicate Sample	H14060255-019	6/10/2014	Zinc, Total Recoverable	0.016	0.008	mg/L		E200.8
FC-CFR	Natural Sample	H14060255-018	6/10/2014	Zinc, Total Recoverable	0.017	0.008	mg/L		E200.8

FC-CFR	Duplicate Sample	H14060541-019	6/24/2014	Zinc, Total Recoverable	0.014	0.008	mg/L		E200.8
FC-CFR	Natural Sample	H14060541-018	6/24/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
FC-CFR	Duplicate Sample	H14090349-004	9/16/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
FC-CFR	Natural Sample	H14090349-003	9/16/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
FC-CFR	Duplicate Sample	H14120106-004	12/1/2014	Zinc, Total Recoverable	0.009	0.008	mg/L		E200.8
FC-CFR	Natural Sample	H14120106-003	12/1/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
LBR-CFR	Natural Sample	H14030285-005	3/18/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
LBR-CFR	Natural Sample	H14050278-003	5/13/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
LBR-CFR	Natural Sample	H14060255-003	6/10/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14060541-003	6/24/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14090349-005	9/16/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
LBR-CFR-02	Natural Sample	H14120106-005	12/1/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14030285-015	3/19/2014	Zinc, Total Recoverable	0.022	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14030285-014	3/19/2014	Zinc, Total Recoverable	0.021	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14050278-015	5/14/2014	Zinc, Total Recoverable	0.008	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14050278-014	5/14/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060255-015	6/11/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060255-014	6/11/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14060541-011	6/25/2014	Zinc, Total Recoverable	0.01	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14060541-015	6/25/2014	Zinc, Total Recoverable	0.015	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14090349-015	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14090349-014	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MCWC-MWB	Duplicate Sample	H14120106-015	12/2/2014	Zinc, Total Recoverable	0.055	0.008	mg/L		E200.8
MCWC-MWB	Natural Sample	H14120106-014	12/2/2014	Zinc, Total Recoverable	0.054	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14030285-012	3/19/2014	Zinc, Total Recoverable	0.017	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14050278-011	5/14/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14060255-011	6/11/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14060541-014	6/25/2014	Zinc, Total Recoverable	0.014	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14090349-012	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
MWB-SBC	Natural Sample	H14120106-012	12/2/2014	Zinc, Total Recoverable	0.01	0.008	mg/L		E200.8
SBC-P2	Natural Sample	H14050278-012	5/14/2014	Zinc, Total Recoverable	0.017	0.008	mg/L		E200.8
SBC-P2	Natural Sample	H14060255-012	6/11/2014	Zinc, Total Recoverable	0.009	0.008	mg/L		E200.8
SBC-P2	Natural Sample	H14060541-012	6/25/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
SS-25	Natural Sample	H14030285-011	3/19/2014	Zinc, Total Recoverable	0.041	0.008	mg/L		E200.8

SS-25	Natural Sample	H14050278-010	5/14/2014	Zinc, Total Recoverable	0.014	0.008	mg/L		E200.8
SS-25	Natural Sample	H14060255-010	6/11/2014	Zinc, Total Recoverable	0.008	0.008	mg/L		E200.8
SS-25	Natural Sample	H14060541-010	6/25/2014	Zinc, Total Recoverable	0.011	0.008	mg/L		E200.8
SS-25	Natural Sample	H14090349-011	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
SS-25	Natural Sample	H14120106-011	12/2/2014	Zinc, Total Recoverable	0.027	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14030285-010	3/19/2014	Zinc, Total Recoverable	0.009	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14050278-009	5/14/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14060255-009	6/11/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14060541-009	6/25/2014	Zinc, Total Recoverable	0.01	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14090349-010	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
WSC-SBC	Natural Sample	H14120106-010	12/2/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 1	H14030285-002	3/18/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 2	H14030285-013	3/19/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 1	H14050278-017	5/13/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 2	H14050278-013	5/14/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 1	H14060255-017	6/10/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 2	H14060255-013	6/11/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 1	H14060541-017	6/24/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 2	H14060541-013	6/25/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 1	H14090349-002	9/16/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 2	H14090349-013	9/17/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 1	H14120106-002	12/1/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8
	Field Blank 2	H14120106-013	12/2/2014	Zinc, Total Recoverable	ND	0.008	mg/L		E200.8

ND Concentration below analytical reporting limit.

B Associated field blank had detectable concentrations of this analyte.

J Associated field duplicate and field sample pair had relative percent difference (RPD) of at least 25%.

Table C2. Surface water field parameters from Clark Fork River Operable Unit, 2014.

Site	Date	Time	Air Temp (F; estimated)	pH	Water Temp (C)	Dissolved Oxygen (mg/L)	Dissolved Oxygen (% saturation)	Conductivity (µS/cm)	Turbidity (NTU)	Streamflow (cfs)	Weather	Field Observations
MCWC-MWB	3/19/2014	15:00	45	8.05	4.0	12.24	93.6	233.5	4.52	23		Flow about average for the date, quite clear; open channel below RR bridge; some shelf ice visible above.
MWB-SBC	3/19/2014	13:30	45	8.26	2.7	13.02	96.1	480.2	3.75	23	Windy, mostly sunny.	Flow about average, very clear water; open channel, no ice present.
SS-25	3/19/2014	12:00	40	8.79	3.8	12.20	92.7	466.2	10.60	128*	Sunny with high clouds, windy.	Flow quite high, mod. Off-color, bars on RB submerged; open channel, no ice.
WSC-SBC	3/19/2014	11:00	32	8.11	0.9	12.70	89.1	397.4	1.43	28*	Windy, increasing clouds, chilly.	Flow seasonably low, very clear; small amount of shelf ice in incised channel below bridge, otherwise ice-free.
CFR-03A	3/19/2014	10:00	30	8.40	2.2	11.83	86.5	456.4	8.50	149*	Windy with high clouds, chilly.	Flow about average for date, slightly off-color; good flow from upstream ditch on left bank, maybe 2-3 cfs; open channel, no ice; FWP guys setting fish boxes today.
CFR-07D	3/19/2014	8:45	25	8.01	1.7	11.66	83.7	508.9	8.66	207	Breezy, high overcast, cold.	Flow about average for date, very slightly off-color; open channel, no ice.

LC-7.5	3/19/2014	16:00	45	8.08	6.0	10.92	88.4	580.2	8.92		Windy, sunny, cool.	Flow fairly high, clear; multiple channels converge just above RR trestle.
RTC-1.5	3/19/2014	16:45	40	7.93	3.8	11.81	89.6	151.1	0.73	18	High clouds, breezy, cool.	Good seasonable flow, very clear; heavy beaver activity upstream of road, sampled downstream of bridge.
CFR-11F	3/18/2014	17:45	35	8.22	5.0	11.60	90.9	510.7	11.50	233	Breezy, partly cloudy/sunny.	Flow moderately high, off-color; completely open channel, no ice.
CFR-27H	3/18/2014	16:30	35	8.03	4.5	11.65	89.9	478.7	19.20	315*		Flow high, off-color; wading difficult; completely open channel, no ice.
LBR-CFR	3/18/2014	15:00	35	7.90	3.9	11.80	89.7	220.2	3.64	173*	Windy, partly cloudy, cool.	Flow moderately high but fairly clear; evidence of higher flows recently; open channel, no ice.
FC-CFR	3/18/2014	13:30	30	8.07	2.9	12.66	93.7	266.2	13.70	92*	Cloudy, windy, snow squalls.	Flow moderately high, but evidence present of higher water recently; open channel, all ice gone.
CFR-84F	3/18/2014	11:00	30	7.87	3.3	11.80	88.6	393.0	16.70	944*	Partly cloudy, windy, cool.	Moderately high flow, but down considerably from high off 7-10 days ago; considerable fine TSS evident; Lat-Long in SAP okay.

CFR-116A	3/18/2014	9:00	28	7.65	3.1	12.20	91.1	300.3	21.40	1710*	Overcast, calm, cool.	Flow down from peak of 10 days ago, but high for the date; minimal flow in south side channel, no water collected there; syringe and filter pre-rinsed with E-pure DI H2O in glass.
MCWC-MWB	5/14/2014	16:30	65	8.37	13.5	12.96	124.5	134.5	4.01	58	Breezy, high clouds, warm.	Flow up slightly, well below bankfull/peak, more like pre-runoff.
MWB-SBC	5/14/2014	14:30	65	8.46	12.2	13.69	127.5	234.9	4.18	62	Windy, warm.	Flow up, well below bankfull, very clear.
SBC-P2	5/14/2014	15:30	65	8.77	11.2	12.59	114.9	401.8	1.64			High flow, very highly aerated in spillway, green color apparent.
SS-25	5/14/2014	13:45	60	8.68	11.2	13.62	124.1	345.8	2.61	211*	Wind picking up, mostly cloudy.	Flow up, moderately high but very clear; bar at sample staging area pretty much underwater; heavy Cladophora growth, particularly on (RB) east half of channel.
WSC-SBC	5/14/2014	12:45	65	8.34	10.2	13.41	119.5	320.0	1.85	54*	Partly cloudy, calm, warm.	Flow essentially pre-runoff level, very clear.
CFR-03A	5/14/2014	11:45	65	8.76	10.3	15.23	136.0	346.0	3.58	265*	Partly cloudy, calm, warm.	Flow up only slightly, very clear for date; well below (> 2') bankfull/peak flow, easily wadeable below bridge.

CFR-07D	5/14/2014	10:45	60	8.52	10.0	14.00	123.9	387.5	3.58	304	Partly cloudy, calm, warm.	Flow up slightly, well below bankfull/peak flow, very clear.
CFR-11F	5/14/2014	9:45	50	8.26	9.3	13.07	114.0	387.0	4.68	291	Partly cloudy, calm, warm.	Flow up slightly, quite clear for date; well below bankfull/flood stage.
CFR-27H	5/14/2014	8:45	40	8.29	9.2	12.55	109.2	385.6	6.85	408*	Clear, calm, cool.	Flow up, slightly off-color, well below bankfull; wadeable, moved X-section upstream to first bend.
CFR-42G	5/13/2014	17:30	70	8.85	13.8	16.13	156.0	382.6	6.86	371*	Partly cloudy, breezy, warm.	Flow up slightly, a little off-color; stage well below peak/flood stage; wadeable at usual section.
LBR-CFR	5/13/2014	15:30	70	7.82	10.1	13.15	117.0	161.1	6.68	573*	High clouds, calm, warm.	Flow up and slightly off-color, well below peak flow/flood stage (18" below bankfull on LB); waded section to collect sample; very swift, at upper limit of wadeability.
FC-CFR	5/13/2014	13:45	70	8.46	11.4	14.13	129.6	205.9	9.54	121*	High clouds, calm, warm.	Flow up, off-color; well below peak/flood stage; collected sample off downstream side of bridge with long-handled DH-81. Noticed white residue under cap on DOC bottle.
CFR-84F	5/13/2014	12:00	60	8.12	10.0	13.51	119.9	293.5	12.50	1360*	Partly cloudy, warm.	Flow up and off-color, well below peak/flood stage.

CSC	5/13/2014	10:45	55	7.56	9.3	9.48	82.9	317.6	0.45			Flow about average, very low velocity; gin clear with algae clumps on surface; grabbed samples just upstream of upper set of fish cages.
CFR-116A	5/13/2014	9:30	55	7.71	7.4	13.80	115.1	191.1	10.70	3160*	Clear, calm.	Flow up, moderately off-color, well below peak/flood stage; sampled every third mark on railing, one sample in center of south overflow channel (< 0.25 L).
MCWC-MWB	6/11/2014	15:30	65	7.84	11.7	9.90	91.2	103.6	3.79	97	Warm, sunny, light breeze.	Good flow, higher than Q2 event 1, but down from peak of last two weeks; clear and cool.
MWB-SBC	6/11/2014	13:45	70	7.99	11.3	10.56	96.5	164.6	3.83	107	Breezy, warm, mostly sunny.	Flow moderately high, up from Q2 first event; clear and cool.
SBC-P2	6/11/2014	14:30	70	9.28	18.0	8.08	85.4	315.3	3.56		Breezy, warm, partly cloudy.	Flow much lower than Q2 run #1, dropped very recently (fishermen report) by 4-5 tenths.
SS-25	6/11/2014	13:00	65	8.59	12.1	10.20	95.1	199.9	3.72	141*	Partly cloudy, calm, warm.	Flow up from summer base level but considerably less that first Q2 run, quite clear.
WSC-SBC	6/11/2014	11:30	60	7.82	7.8	10.26	86.3	158.0	4.00	187*	Partly cloudy, breezy, warm.	Flow up from first Q2 run, down from peak of last two weeks; good flow, quite clear.

CFR-03A	6/11/2014	11:00	60	8.18	9.7	10.18	89.6	184.2	4.48	338*	Partly cloudy, breezy, warm.	Flow up but below peak, dropping over last two weeks, quite clear.
CFR-07D	6/11/2014	10:00	55	8.06	10.5	9.50	85.9	219.9	5.67	382	Sunny, clear, calm.	Flow moderately high, up several tenths from last run, at limit of wadeability.
CFR-11F	6/11/2014	9:00	55	8.00	10.9	9.18	83.0	232.8	6.44	330	Clear, calm, cool.	Flow moderately high but well below 2014 peak of last week - 10 days.
CFR-27H	6/10/2014	18:00	70	8.30	16.9	9.04	93.4	252..3	10.70	419*	Windy, mostly cloudy.	Flow moderately high but well below peak of last two weeks, wadeable.
CFR-42G	6/10/2014	17:00	65	8.32	17.5	9.26	97.0	302.6	10.80	460*	Mostly cloudy, windy, light shower.	Flow down from peak of last two weeks, wadeable (but not easily so).
LBR-CFR	6/10/2014	15:30	75	8.04	15.6	9.22	82.7	199.9	2.34	273*	Windy, partly cloudy, warm.	Flow well below peak of last two weeks, and dropping; moved site to Beck Hill Road bridge, ~ 4 miles upstream from Garrison. Not wadeable, used bridge crane to collect samples.
FC-CFR	6/10/2014	13:30	70	8.36	13.7	10.87	104.7	217.0	8.31	144*		Flow well down from peak of last two weeks, dropping. MeHg collected after dissolved samples were pulled from churn by mistake.
CFR-84F	6/10/2014	12:00	70	8.03	14.7	8.93	88.1	325.7	8.09	1120*	High clouds, breezy, warm.	Flow moderately high but down from peak and dropping over last week to 10 days.

CSC	6/10/2014	10:30	60	7.60	9.9	7.68	68.0	326.3	0.39			
CFR-116A	6/10/2014	9:15	60	7.79	11.9	9.54	88.4	167.6	8.92	3420*	Clear, calm, warm.	Moderately high, post-peak runoff; hydrograph dropping steadily last week - 10 days.
MCWC-MWB	6/25/2014	15:30	75	8.24	14.7	9.11	89.8	113.9	8.02	108	High clouds, thunderstorms, warm.	Flow high, sustained runoff similar (higher?) than 6/11, off color and cool.
MWB-SBC	6/25/2014	13:30	75	8.32	14.6	9.94	97.8	179.8	5.41	116	High clouds, breezy, warm.	Flow moderately high, similar to 6/11; sustained runoff stage.
SBC-P2	6/25/2014	14:00	70	9.81	18.6	8.11	86.8	305.9	1.02		High clouds developing, warm.	Flow significantly higher than on 6/11, similar to first Q2 run.
SS-25	6/25/2014	12:45	70	9.38	16.2	8.95	91.1	245.6	3.60	188*	Mostly clear, calm, warm.	Flow fairly high, similar or slightly above 6/11, clear.
WSC-SBC	6/25/2014	12:00	70	7.98	10.5	9.83	88.3	166.4	4.81	193*	Partly cloudy, calm, warm.	Flow high, possibly greater than 6/11, fairly clear and cool.
CFR-03A	6/25/2014	11:00	65	8.82	12.5	9.64	90.6	209.9	4.89	398*	Partly cloudy, breezy, warm.	Flow moderately high, similar to 6/11 - good sustained runoff stage but clear; significant return flow upstream on river left.
CFR-07D	6/25/2014	10:00	60	8.56	12.9	9.03	85.6	258.3	5.56		Sunny, calm, low clouds lifting.	Flow up from 6/11, not wadeable; collected sample from bridge with long pole DH-81; rain last afternoon and night may have raised stage.

CFR-11F	6/25/2014	9:00	55	8.41	13.2	8.57	81.7	272.4	5.46	396	High clouds, calm, cool.	Good flow, possibly higher than 6/11, sustained runoff but clear; mosquitoes.
CFR-27H	6/24/2014	18:00	60	8.62	15.8	8.84	89.6	259.2	9.09	500*	Thundershower, breezy.	Flow moderately high, similar or slightly higher than 6/10; good sustained runoff.
CFR-42G	6/24/2014	17:00	70	8.44	16.1	8.91	90.6	302.1	10.80	595*	Overcast, dry thunderstorms.	Flow up some from 6/10, not easily wadeable if at all; collected sample with extendable pole from RR bridge - swift water was at limit of device.
LBR-CFR-02	6/24/2014	15:30	70	7.96	14.2	8.29	80.8	223.8	2.67	222	Overcast, thunder in area, warm.	Sampled at Beck Hill Road bridge and gaged flow there. Flow down some from 6/10, wadeable below bridge; gaged flow ~ 20 m below bridge; water clear.
FC-CFR	6/24/2014	13:45	70	8.57	14.4	9.91	97.1	274.5	6.38	139*	Thundershower, muggy.	Flow moderately high, similar to 6/10; quite clear.
CFR-84F	6/24/2014	11:45		8.32	16.0	8.74	88.7	332.4	8.45	1270*	High clouds, warm, thunderstorms?	Flow moderately high, similar to 6/10; fairly clear for stage.
CSC	6/24/2014	10:30	67	7.74	10.1	7.49	66.6	319.0	0.42		High clouds, calm, warm.	Water slightly lower than on 6/10, very clear.
CFR-116A	6/24/2014	9:00	55	7.99	13.9	8.98	87.0	215.9	5.55	2700*	High clouds, breezy.	Flow moderately high, down some from 6/10; minor bump last week due to rain; dropping again.

MCWC-MWB	9/17/2014	14:45	80	8.47	14.2	10.31	100.6	192.7	1.86	21	Thunderstorms building, windy and warm.	Average to slightly above average flow for the season. Very clear water.
MWB-SBC	9/17/2014	13:15	80	8.70	14.0	11.46	111.5	392.6	1.17	27	Breezy, clouding up, warm.	Good flow, above average for the season; extremely heavy periphyton layer over >95% of substrate.
SS-25	9/17/2014	12:30	75	9.48	13.5	11.00	105.6	372.3	1.24	99*	High clouds, breezy, warm.	Good flow, higher than average for the season; extremely heavy periphyton growth.
WSC-SBC	9/17/2014	11:15	75	8.16	10.1	10.34	91.9	321.9	1.12	42*	High clouds, sunny, calm.	Good flow, appears average for the season; good periphyton layer.
CFR-03A	9/17/2014	10:30	65	9.04	11.6	9.70	89.4	362.6	1.36	147*	High clouds, calm, warm.	Good flow, quite high for the season; heavy periphyton growth; overall a healthy looking, rich stream.
CFR-07D	9/17/2014	9:15	55	8.76	11.1	9.62	87.5	400.7	1.55	165	Sunny, calm, warming up.	Flow quite high for the season, very clear; heavy periphyton growth, near 100% coverage in deeper riffles and runs; relatively healthy but enriched in appearance.
LC-7.5	9/17/2014	16:00	75	8.35	13.6	10.32	99.6	484.6	1.39		Overcast, windy, warm.	Good flow, seems high for the time of year; very heavy periphyton.

RTC-1.5	9/17/2014	16:45	75	7.60	12.9	8.91	84.5	140.6	1.01		Overcast, calm, warm.	Good flow, higher than average and than in August, relatively thin slime (periphyton) layer.
CFR-11F	9/16/2014	17:30	75	9.06	13.6	11.52	111.0	400.7	1.50	190		Good flow, quite high for the season; very clear; very heavy Cladophora growth; heavy sand deposits over much of the slower runs and around cobble.
CFR-27H	9/16/2014	16:30	80	8.88	13.9	12.45	120.6	385.2	3.47	248*		Good flow, high for the season; heavy filamentous algae over much of the substrate; large sand dunes present below large cobble throughout the channel.
LBR-CFR-02	9/16/2014	14:30	75	8.08	13.3	10.08	96.4	250.5	0.94	54	High clouds, breezy, warm.	Sampled just below the bridge; good flow for late season, very clear; heavy diatom layer in deeper, lower velocity runs.
FC-CFR	9/16/2014	13:00	60	8.45	11.3	11.90	108.7	367.7	3.49	71*	Cloudy, mostly calm, cooler.	Good flow, considerably higher than last year; sampled water approximately 75 meters upstream; sediment sampled along bar just upstream of bridge.

CFR-84F	9/16/2014	11:30	58	8.20	12.9	10.56	100.1	448.5	3.68	536*	High clouds, calm, warm.	Flow higher than seasonal due to rains last week, clear water.
CFR-116A	9/16/2014	9:00	55	8.15	11.8	10.50	97.0	340.4	3.55	917*	Calm, high clouds, pleasant.	Flow seasonably high, 1.5-2x last year's flow as of 9/12; collected sediment and periphyton downstream of bridge on river right; near 100% coverage by diatom slime.
MCWC-MWB	12/2/2014	16:00	32	7.92	1.0	11.94	84.0	179.6	15.60	16	Mostly clear, calm.	Floodplain tailings removal in progress adjacent to sample site. Turbidity is elevated but not apparently due to the excavation work as the turbidity extends upstream from the operation. Shelf ice present but no anchor ice or slush ice.
MWB-SBC	12/2/2014	14:30	30	8.17	0.8	12.58	88.0	593.5	2.12	27	Clear, sunny, cold, breezy.	Some shelf ice, no slush or anchor ice. Moderately low flow.
SS-25	12/2/2014	13:45	28	8.10	2.1	12.46	90.5	579.0	2.60	73*	Sunny, light breeze, cold.	Channel is ice free. Foam patches on water surface. Low flow and clear. Depth integrated water sample across full cross section.

WSC-SBC	12/2/2014	12:45	20	8.10	0.0	12.43	85.0	341.4	2.55		Clear, sunny, light breeze, cold.	Shelf ice along both banks but channel open midstream. Depth integrated water sample across full cross section. Visible sand particles in water column but water is clear.
CFR-03A	12/2/2014	12:15	20	8.15	1.0	12.47	87.8	500.3	3.30		Sunny, calm.	Very limited shelf ice, slush ice now gone. Moderately low flow, pretty clear water.
CFR-07D	12/2/2014	11:00	18	8.09	0.0	12.33	84.3	547.2	2.45	175	Clear, calm, cold.	~10' shelf ice on right bank, little on left bank. Some slush ice, also anchor ice/slush on much of substrate. Collected water with DH-81, gauged flow at usual location.
CFR-11F	12/2/2014	9:00	14	8.00	0.0	12.06	82.7	579.0	3.53	166	Clear, calm, cold.	Small amount of slush ice, relatively little shelf ice, 1-8' out from banks. Opened channel to gauge flow at usual section. Collected water with DH-81, no problems with icing up unlike yesterday.
CFR-27H	12/1/2014	16:00	2	8.11	0.0	13.03	89.1	536.9	6.31	253*	Clearing, calm, cold.	2' of shelf ice along both banks. Slush ice coming downriver, very clear water.

LBR-CFR-02	12/1/2014	14:00	2	8.10	0.1	12.84	88.2	276.0	2.27		Clearing trend, calm, cold.	Some shelf ice present, moderate amounts of slush ice. Channel is mostly open, water very clear. Tried depth integrating with DH-81 but it plugged/froze immediately. Grab sampled instead by dipping churn splitter bucket.
FC-CFR	12/1/2014	13:00	6	8.22	0.0	13.50	93.1	356.2	5.89		100% cloud cover, calm, cold.	DH-81 inoperable due to cold. Grab sampled with churn splitter bucket and rope from the bridge. Shelf ice present and continual slush ice coming downriver.
CFR-84F	12/1/2014	10:45	6	8.01	0.0	12.20	83.5	490.9	5.34	548*	Mostly cloudy, light wind, cold.	River is full of slush ice. Limited shoreline shelf ice. Grab sampled with churn splitter bucket and a rope from the bridge.
CFR-116A	12/1/2014	9:30	6	8.01	0.0	12.96	88.5	341.3	5.79		Mostly cloudy, light breeze, cold.	Heavy slush ice, limited shelf ice. Grab sampled mid-river with churn splitter bucket and a rope from the bridge.

* Streamflow measured by U.S. Geological Survey at co-located gauge. Data may be provisional.

APPENDIX D

SEDIMENT DATA

APPENDIX D
SEDIMENT DATA

Table D1. Instream sediment monitoring data from Clark Fork River Operable Unit, 2014.

Site	Sieve Size	Type	Lab ID	Collected Date	Parameter	Results	Reporting Limit	Units	Method
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Arsenic, Total	34	2	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Cadmium, Total	2.2	0.2	mg/kg	SW6020
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Copper, Total	108	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Lead, Total	53	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Zinc, Total	174	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Arsenic, Total	100	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Cadmium, Total	6.6	0.2	mg/kg-dry	SW6020
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Copper, Total	323	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Lead, Total	157	9	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14030285-030	3/19/2014	Zinc, Total	519	5	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Arsenic, Total	60	2	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Cadmium, Total	2.7	0.2	mg/kg	SW6020
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Copper, Total	106	5	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Lead, Total	82	5	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Zinc, Total	319	5	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Arsenic, Total	191	5	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Cadmium, Total	8.5	0.2	mg/kg-dry	SW6020
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Copper, Total	337	5	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Lead, Total	262	10	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14030285-029	3/19/2014	Zinc, Total	1020	5	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Arsenic, Total	47	2	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Cadmium, Total	2.9	0.2	mg/kg	SW6020
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Copper, Total	131	5	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Lead, Total	74	5	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Zinc, Total	412	5	mg/kg	SW6010B

SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Arsenic, Total	177	7	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Cadmium, Total	10.9	0.2	mg/kg-dry	SW6020
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Copper, Total	497	5	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Lead, Total	280	10	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14030285-028	3/19/2014	Zinc, Total	1560	5	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Arsenic, Total	33	2	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Cadmium, Total	1.6	0.2	mg/kg	SW6020
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Copper, Total	297	5	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Lead, Total	43	5	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Zinc, Total	132	5	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Arsenic, Total	86	5	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Cadmium, Total	4.2	0.2	mg/kg-dry	SW6020
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Copper, Total	771	5	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Lead, Total	111	8	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14030285-027	3/19/2014	Zinc, Total	343	5	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Arsenic, Total	42	2	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Cadmium, Total	1.9	0.2	mg/kg	SW6020
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Copper, Total	324	5	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Lead, Total	49	5	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Zinc, Total	293	5	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Arsenic, Total	222	9	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Cadmium, Total	9.9	0.3	mg/kg-dry	SW6020
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Copper, Total	1720	6	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Lead, Total	259	20	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14030285-026	3/19/2014	Zinc, Total	1550	5	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Arsenic, Total	60	2	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Cadmium, Total	2	0.2	mg/kg	SW6020
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Copper, Total	548	5	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Lead, Total	80	5	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Zinc, Total	411	5	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Arsenic, Total	133	4	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Cadmium, Total	4.4	0.2	mg/kg-dry	SW6020
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Copper, Total	1220	5	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Lead, Total	178	7	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14030285-025	3/19/2014	Zinc, Total	912	5	mg/kg-dry	SW6010B

CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Arsenic, Total	50	2	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Cadmium, Total	2.4	0.2	mg/kg	SW6020
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Copper, Total	451	5	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Lead, Total	66	5	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Zinc, Total	411	5	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Arsenic, Total	131	4	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Cadmium, Total	6.2	0.2	mg/kg-dry	SW6020
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Copper, Total	1170	5	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Lead, Total	171	8	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14030285-024	3/18/2014	Zinc, Total	1070	5	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Arsenic, Total	25	2	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Cadmium, Total	1.4	0.2	mg/kg	SW6020
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Copper, Total	113	5	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Lead, Total	68	5	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Zinc, Total	188	5	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Arsenic, Total	62	4	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Cadmium, Total	3.4	0.2	mg/kg-dry	SW6020
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Copper, Total	279	5	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Lead, Total	167	8	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14030285-032	3/19/2014	Zinc, Total	464	5	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Arsenic, Total	29	2	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Cadmium, Total	0.8	0.2	mg/kg	SW6020
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Copper, Total	34	5	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Lead, Total	101	5	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Zinc, Total	72	5	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Arsenic, Total	76	5	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Cadmium, Total	2.1	0.2	mg/kg-dry	SW6020
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Copper, Total	92	5	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Lead, Total	271	8	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14030285-033	3/19/2014	Zinc, Total	191	5	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Arsenic, Total	55	2	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Cadmium, Total	2.2	0.2	mg/kg	SW6020
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Copper, Total	533	5	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Lead, Total	71	5	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Zinc, Total	363	5	mg/kg	SW6010B

CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Arsenic, Total	163	5	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Cadmium, Total	6.3	0.2	mg/kg-dry	SW6020
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Copper, Total	1570	5	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Lead, Total	209	9	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14030285-023	3/18/2014	Zinc, Total	1070	5	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Arsenic, Total	9	1	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Cadmium, Total	0.5	0.2	mg/kg	SW6020
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Copper, Total	17	5	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Lead, Total	24	5	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Zinc, Total	55	5	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Arsenic, Total	22	1	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Cadmium, Total	1.1	0.2	mg/kg-dry	SW6020
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Copper, Total	41	5	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Lead, Total	59	8	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14030285-022	3/18/2014	Zinc, Total	134	5	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Arsenic, Total	15	2	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Cadmium, Total	1.3	0.2	mg/kg	SW6020
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Copper, Total	159	5	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Lead, Total	30	5	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Zinc, Total	254	5	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Arsenic, Total	48	6	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Cadmium, Total	4.1	0.2	mg/kg-dry	SW6020
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Copper, Total	497	5	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Lead, Total	94	10	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14030285-021	3/18/2014	Zinc, Total	795	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Arsenic, Total	35	2	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Cadmium, Total	2.3	0.2	mg/kg	SW6020
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Copper, Total	122	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Lead, Total	53	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Zinc, Total	194	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Arsenic, Total	102	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Cadmium, Total	6.9	0.2	mg/kg-dry	SW6020
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Copper, Total	358	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Lead, Total	156	9	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14030285-031	3/19/2014	Zinc, Total	570	5	mg/kg-dry	SW6010B

MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Arsenic, Total	41	1	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Cadmium, Total	2.8	0.2	mg/kg	SW6020
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Copper, Total	118	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Lead, Total	59	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Zinc, Total	186	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Arsenic, Total	141	1	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Cadmium, Total	9.6	0.5	mg/kg-dry	SW6020
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Copper, Total	405	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Lead, Total	204	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Natural Sample	H14090349-029	9/17/2014	Zinc, Total	640	10	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Arsenic, Total	64	1	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Cadmium, Total	2.5	0.2	mg/kg	SW6020
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Copper, Total	92	5	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Lead, Total	47	5	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Zinc, Total	309	5	mg/kg	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Arsenic, Total	209	1	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Cadmium, Total	8.1	0.4	mg/kg-dry	SW6020
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Copper, Total	300	5	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Lead, Total	153	5	mg/kg-dry	SW6010B
MWB-SBC	<0.065 mm	Natural Sample	H14090349-028	9/17/2014	Zinc, Total	1000	10	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Arsenic, Total	45	1	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Cadmium, Total	3	0.2	mg/kg	SW6020
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Copper, Total	283	5	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Lead, Total	126	5	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Zinc, Total	976	5	mg/kg	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Arsenic, Total	119	1	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Cadmium, Total	7.9	0.3	mg/kg-dry	SW6020
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Copper, Total	748	5	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Lead, Total	332	5	mg/kg-dry	SW6010B
SS-25	<0.065 mm	Natural Sample	H14090349-027	9/17/2014	Zinc, Total	2580	9	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Arsenic, Total	32	1	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Cadmium, Total	1.4	0.2	mg/kg	SW6020
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Copper, Total	341	5	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Lead, Total	41	5	mg/kg	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Zinc, Total	169	5	mg/kg	SW6010B

WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Arsenic, Total	105	1	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Cadmium, Total	4.7	0.4	mg/kg-dry	SW6020
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Copper, Total	1110	5	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Lead, Total	133	5	mg/kg-dry	SW6010B
WSC-SBC	<0.065 mm	Natural Sample	H14090349-026	9/17/2014	Zinc, Total	550	10	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Arsenic, Total	64	1	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Cadmium, Total	3.1	0.2	mg/kg	SW6020
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Copper, Total	660	5	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Lead, Total	95	5	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Zinc, Total	530	5	mg/kg	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Arsenic, Total	192	1	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Cadmium, Total	9.1	0.5	mg/kg-dry	SW6020
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Copper, Total	1970	5	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Lead, Total	283	5	mg/kg-dry	SW6010B
CFR-03	<0.065 mm	Natural Sample	H14090349-025	9/17/2014	Zinc, Total	1580	10	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Arsenic, Total	89	1	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Cadmium, Total	3	0.2	mg/kg	SW6020
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Copper, Total	873	5	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Lead, Total	118	5	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Zinc, Total	659	5	mg/kg	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Arsenic, Total	192	1	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Cadmium, Total	6.5	0.3	mg/kg-dry	SW6020
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Copper, Total	1890	5	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Lead, Total	255	5	mg/kg-dry	SW6010B
CFR-07D	<0.065 mm	Natural Sample	H14090349-024	9/17/2014	Zinc, Total	1430	8	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Arsenic, Total	80	1	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Cadmium, Total	2.3	0.2	mg/kg	SW6020
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Copper, Total	650	5	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Lead, Total	115	5	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Zinc, Total	511	5	mg/kg	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Arsenic, Total	151	1	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Cadmium, Total	4.4	0.3	mg/kg-dry	SW6020
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Copper, Total	1220	5	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Lead, Total	216	5	mg/kg-dry	SW6010B
CFR-11F	<0.065 mm	Natural Sample	H14090349-023	9/16/2014	Zinc, Total	963	7	mg/kg-dry	SW6010B

LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Arsenic, Total	36	1	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Cadmium, Total	1	0.2	mg/kg	SW6020
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Copper, Total	118	5	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Lead, Total	59	5	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Zinc, Total	149	5	mg/kg	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Arsenic, Total	91	1	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Cadmium, Total	2.5	0.3	mg/kg-dry	SW6020
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Copper, Total	298	5	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Lead, Total	149	5	mg/kg-dry	SW6010B
LC-7.5	<0.065 mm	Natural Sample	H14090349-031	9/17/2014	Zinc, Total	375	9	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Arsenic, Total	11	1	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Cadmium, Total	0.7	0.2	mg/kg	SW6020
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Copper, Total	39	5	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Lead, Total	68	5	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Zinc, Total	72	5	mg/kg	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Arsenic, Total	30	1	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Cadmium, Total	1.9	0.4	mg/kg-dry	SW6020
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Copper, Total	108	5	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Lead, Total	189	5	mg/kg-dry	SW6010B
RTC-1.5	<0.065 mm	Natural Sample	H14090349-032	9/17/2014	Zinc, Total	201	10	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Arsenic, Total	53	1	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Cadmium, Total	3.8	0.2	mg/kg	SW6020
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Copper, Total	692	5	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Lead, Total	102	5	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Zinc, Total	596	5	mg/kg	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Arsenic, Total	101	1	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Cadmium, Total	7.2	0.3	mg/kg-dry	SW6020
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Copper, Total	1320	5	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Lead, Total	194	5	mg/kg-dry	SW6010B
CFR-27H	<0.065 mm	Natural Sample	H14090349-022	9/16/2014	Zinc, Total	1140	7	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Arsenic, Total	10	1	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Cadmium, Total	0.7	0.2	mg/kg	SW6020
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Copper, Total	17	5	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Lead, Total	26	5	mg/kg	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Zinc, Total	75	5	mg/kg	SW6010B

LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Arsenic, Total	29	1	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Cadmium, Total	2	0.4	mg/kg-dry	SW6020
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Copper, Total	47	5	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Lead, Total	74	5	mg/kg-dry	SW6010B
LBR-CFR	<0.065 mm	Natural Sample	H14090349-021	9/16/2014	Zinc, Total	213	10	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Arsenic, Total	32	1	mg/kg	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Cadmium, Total	0.7	0.2	mg/kg	SW6020
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Copper, Total	24	5	mg/kg	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Lead, Total	73	5	mg/kg	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Zinc, Total	215	5	mg/kg	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Arsenic, Total	116	1	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Cadmium, Total	2.7	0.5	mg/kg-dry	SW6020
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Copper, Total	87	5	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Lead, Total	266	5	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Natural Sample	H14090349-019	9/16/2014	Zinc, Total	785	10	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Arsenic, Total	13	1	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Cadmium, Total	1.3	0.2	mg/kg	SW6020
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Copper, Total	179	5	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Lead, Total	39	5	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Zinc, Total	299	5	mg/kg	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Arsenic, Total	39	1	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Cadmium, Total	3.9	0.5	mg/kg-dry	SW6020
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Copper, Total	557	5	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Lead, Total	120	5	mg/kg-dry	SW6010B
CFR-116A	<0.065 mm	Natural Sample	H14090349-018	9/16/2014	Zinc, Total	933	10	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Arsenic, Total	29	1	mg/kg	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Cadmium, Total	0.7	0.2	mg/kg	SW6020
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Copper, Total	22	5	mg/kg	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Lead, Total	67	5	mg/kg	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Zinc, Total	197	5	mg/kg	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Arsenic, Total	112	1	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Cadmium, Total	2.6	0.5	mg/kg-dry	SW6020
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Copper, Total	87	5	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Lead, Total	262	5	mg/kg-dry	SW6010B
FC-CFR	<0.065 mm	Duplicate Sample	H14090349-020	9/16/2014	Zinc, Total	770	10	mg/kg-dry	SW6010B

MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Arsenic, Total	35	1	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Cadmium, Total	2.5	0.2	mg/kg	SW6020
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Copper, Total	113	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Lead, Total	57	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Zinc, Total	188	5	mg/kg	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Arsenic, Total	118	1	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Cadmium, Total	8.5	0.4	mg/kg-dry	SW6020
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Copper, Total	377	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Lead, Total	189	5	mg/kg-dry	SW6010B
MCWC-MWB	<0.065 mm	Duplicate Sample	H14090349-030	9/17/2014	Zinc, Total	625	10	mg/kg-dry	SW6010B

APPENDIX E

DIATOM ASSOCIATION METRICS

APPENDIX E
DIATOM ASSOCIATION METRICS

Table E1. Diatom association metrics used by the state of Montana to evaluate biological integrity in mountain streams. The lowest rating for any one metric is the rating for that site.

Metric	References	Metric range	Expected response to impairment or stress	Metric category				Description and notes
				Biotic Integrity				
				Excellent	Good	Fair	Poor	
				Impairment or stress				
				None	Minor	Moderate	Severe	
				Beneficial use support				
				Full	Full	Partial	Non-support	
Species counted	Bahls, 1979; 1993	0-100+	Decrease[8]	>29	20-29	19-10	<10	Based on a proportional count of 400 cells (800 valves).
Shannon diversity index	Bahls, 1979	0.00-5.00+	Decrease[8]	>2.99	2.00-2.99	1.00-1.99	<1.00	Base 2 (bits) [Weber, 1973].
Pollution index	Bahls, 1993	1.00-3.00	Decrease	>2.50	2.01-2.50	1.50-2.00	<1.50	Composite numeric expression of the pollution tolerances assigned by Lange-Bertalot [1979] to the common diatom species.
Siltation index	Bahls,1993	0.0-90.0+	Increase	<20.0	20.0-39.9	40.0-59.9	>59.9	Sum of the percent abundances of all species in the genera *Navicula, Nitzschia* and *Surirella.*
Disturbance index	Barbour et al., 1999	0.0-100.0	Increase	<25.0	25.0-49.9	50.0-74.9	>74.9	Percent abundance of *Achnanthidium minutissimum* (synonym: *Achnanthes minutissima*).
Dominant species (%)	Barbour et al., 1999	~5.0-100.0	Increase	<25.0	25.0-49.9	50.0-74.9	>74.9	Percent abundance of the species with the largest number of valves in the proportional count.
Abnormal valves (%)	McFarland et al., 1997	0.0-30.0+	Increase	0	>0.0, <3.0	3.0-9.9	>9.9	Valves with an irregular outline, with abnormal ornamentation, or both.

APPENDIX F

PERIPHYTON DATA: NON-DIATOM ALGAE

APPENDIX F
PERIPHYTON DATA: NON-DIATOM ALGAE

Table F1. Non-diatom algae data for the Clark fork River Operable Unit, 2014.

Site	Sample date	Sample staff	Analysis staff	Analysis Date	Taxon	Algal Division	Estimated relative abundance	Estimated biovolume rank
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Phormidium*	Cyanophyta	d	1
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Nostoc*	Cyanophyta	a	2
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	diatoms (all genera)	Bacillariophyta	a	3
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Staurastrum*	Chlorophyta	f	4
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Closterium*	Chlorophyta	c	5
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Homoeothrix*	Cyanophyta	f	6
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Cladophora*	Chlorophyta	o	7
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Audouinella*	Rhodophyta	c	8
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Stigeoclonium*	Chlorophyta	o	9
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Ulothrix*	Chlorophyta	o	10
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Vaucheria*	Xanthophyta	r	11
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Gloeocystis*	Chlorophyta	r	12
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Scenedesmus*	Chlorophyta	r	13
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Cosmarium*	Chlorophyta	r	14
MCWC-MWB	9/17/2014	E. Weber	E. Weber	11/5/2014	*Dactylococcopsis*	Cyanophyta	o	15
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	diatoms (all genera)	Bacillariophyta	d	1
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Phormidium*	Cyanophyta	d	2
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Nostoc*	Cyanophyta	d	3
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Stigeoclonium*	Chlorophyta	a	4
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Cladophora*	Chlorophyta	c	5
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Oedogonium*	Chlorophyta	c	6

MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Tolypothrix*	Cyanophyta	c	7
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Closterium*	Chlorophyta	o	8
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Chamaesiphon*	Cyanophyta	c	9
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Heteroleibleinia*	Cyanophyta	c	10
MWB-SBC	9/17/2014	E. Weber	E. Weber	11/7/2014	*Dactylococcopsis*	Cyanophyta	o	11
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Stigeoclonium*	Chlorophyta	d	1
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	diatoms (all genera)	Bacillariophyta	d	2
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Cladophora*	Chlorophyta	f	3
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Oedogonium*	Chlorophyta	f	4
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Ulothrix*	Chlorophyta	f	5
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Cosmarium*	Chlorophyta	o	6
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Phormidium*	Cyanophyta	o	7
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Nostoc*	Cyanophyta	o	8
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Chamaesiphon*	Cyanophyta	f	9
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Closterium*	Chlorophyta	r	10
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Leptolyngbya*	Cyanophyta	c	11
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Spirogyra*	Chlorophyta	r	12
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Microcystis*	Cyanophyta	r	13
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Microchaete*	Cyanophyta	r	14
SS-25	9/17/2014	E. Weber	E. Weber	12/11/2014	*Scenedesmus*	Chlorophyta	r	15
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Phormidium*	Cyanophyta	d	1
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Nostoc*	Cyanophyta	d	2
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	diatoms (all genera)	Bacillariophyta	d	3
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Audouinella*	Rhodophyta	a	4
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Oedogonium*	Chlorophyta	f	5
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Cladophora*	Chlorophyta	c	6
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Vaucheria*	Xanthophyta	c	7
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Ulothrix*	Cyanophyta	o	8
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Chamaesiphon*	Cyanophyta	f	9
WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Batrachospermum*	Rhodophyta	o	10

WSC-SBC	9/17/2014	E. Weber	E. Weber	12/11/2014	*Scenedesmus*	Chlorophyta	o	11
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	diatoms (all genera)	Bacillariophyta	d	1
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Cladophora*	Chlorophyta	a	2
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Spirogyra*	Chlorophyta	a	3
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Chara*	Chlorophyta	c	4
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Audouinella*	Rhodophyta	a	5
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Chamaesiphon*	Cyanophyta	a	6
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Closterium*	Chlorophyta	o	7
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Stigeoclonium*	Chlorophyta	o	8
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Oedogonium*	Chlorophyta	o	9
LC-7.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Ulothrix*	Chlorophyta	r	10
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Phormidium*	Cyanophyta	d	1
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	diatoms (all genera)	Bacillariophyta	a	2
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Vaucheria*	Xanthophyta	a	3
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Stigeoclonium*	Chlorophyta	a	4
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Cladophora*	Chlorophyta	c	5
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Audouinella*	Rhodophyta	f	6
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Closterium*	Chlorophyta	c	7
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Staurastrum*	Chlorophyta	o	8
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Heteroleibleinia*	Cyanophyta	f	9
RTC-1.5	9/17/2014	E. Weber	E. Weber	12/10/2014	*Dactylococcopsis*	Cyanophyta	r	10
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	diatoms (all genera)	Bacillariophyta	d	1
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Nostoc*	Cyanophyta	d	2
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Cladophora*	Chlorophyta	f	3
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Audouinella*	Rhodophyta	a	4
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Oedogonium*	Chlorophyta	f	5
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Vaucheria*	Xanthophyta	c	6
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Tolypothrix*	Cyanophyta	f	7
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Tribonema*	Xanthophyta	f	8
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Spirogyra*	Chlorophyta	c	9

LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Closterium*	Chlorophyta	c	10
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Cosmarium*	Chlorophyta	f	11
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Heribaudiella*	Phaeophyta	c	12
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Ulothrix*	Chlorophyta	o	13
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Heteroleibleinia*	Cyanophyta	f	14
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Leptolyngbya*	Cyanophyta	f	15
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Staurastrum*	Chlorophyta	o	16
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Phormidium*	Cyanophyta	o	17
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Chamaesiphon*	Cyanophyta	o	18
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	12/16/2014	*Scenedesmus*	Chlorophyta	r	19
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Cladophora*	Chlorophyta	d	1
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Nostoc*	Cyanophyta	d	2
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	diatoms (all genera)	Bacillariophyta	d	3
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Oedogonium*	Chlorophyta	f	4
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Tolypothrix*	Cyanophyta	a	5
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Chamaesiphon*	Cyanophyta	a	6
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Microchaete*	Cyanophyta	c	7
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Heteroleibleinia*	Cyanophyta	f	8
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Leptolyngbya*	Cyanophyta	c	9
CFR-03A	9/17/2014	E. Weber	E. Weber	12/12/2014	*Cosmarium*	Chlorophyta	r	10
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	diatoms (all genera)	Bacillariophyta	d	1
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Cladophora*	Chlorophyta	a	2
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Oedogonium*	Chlorophyta	f	3
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Nostoc*	Cyanophyta	f	4
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Chamaesiphon*	Cyanophyta	a	5
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Leptolyngbya*	Cyanophyta	a	6
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Heteroleibleinia*	Cyanophyta	a	7
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Tolypothrix*	Cyanophyta	c	8
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Dichothrix*	Cyanophyta	c	9
CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Stigeoclonium*	Chlorophyta	c	10

CFR-07D	9/17/2014	E. Weber	E. Weber	12/15/2014	*Microchaete*	Cyanophyta	o	11
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Cladophora*	Chlorophyta	a	1
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Oedogonium*	Chlorophyta	a	2
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	diatoms (all genera)	Bacillariophyta	d	3
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Nostoc*	Cyanophyta	a	4
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Chamaesiphon*	Cyanophyta	d	5
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Heteroleibleinia*	Cyanophyta	d	6
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Dichothrix*	Cyanophyta	f	7
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Leptolyngbya*	Cyanophyta	a	8
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Tolypothrix*	Cyanophyta	c	9
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Stigeoclonium*	Chlorophyta	c	10
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Microchaete*	Cyanophyta	o	11
CFR-11F	9/16/2014	E. Weber	E. Weber	12/15/2014	*Asterocystis*	Rhodophyta	r	12
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Oedogonium*	Chlorophyta	d	1
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Cladophora*	Chlorophyta	a	2
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	diatoms (all genera)	Bacillariophyta	a	3
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Nostoc*	Cyanophyta	c	4
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Phormidium*	Cyanophyta	o	5
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Chamaesiphon*	Cyanophyta	c	6
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Heteroleibleinia*	Cyanophyta	c	7
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Closterium*	Chlorophyta	r	8
CFR-27H	9/16/2014	E. Weber	E. Weber	12/15/2014	*Ankistrodesmus*	Chlorophyta	r	9
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	diatoms (all genera)	Bacillariophyta	d	1
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Cladophora*	Chlorophyta	a	2
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Audouinella*	Rhodophyta	a	3
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Nostoc*	Cyanophyta	a	4
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Dichothrix*	Cyanophyta	f	5
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Tolypothrix*	Cyanophyta	c	6
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Chamaesiphon*	Cyanophyta	f	7
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Heteroleibleinia*	Cyanophyta	f	8

CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Ulothrix*	Chlorophyta	o	9
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Homoeothrix*	Cyanophyta	c	10
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Heribaudiella*	Phaeophyta	o	11
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Stigeoclonium*	Chlorophyta	r	12
CFR-116A	9/16/2014	E. Weber	E. Weber	12/16/2014	*Tribonema*	Xanthophyta	r	13

APPENDIX G

PERIPHYTON DATA: DIATOM ALGAE

APPENDIX G
PERIPHYTON DATA: DIATOM ALGAE

Table G1. Diatom algae data for the Clark fork River Operable Unit, 2014.

Site	Sample date	Sample staff	Analysis staff	Analysis Date	Species	Valves	Relative abundance (%)	Abnormal cells (%)
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Achnanthidium exiguum*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Achnanthidium minutissimum*	79	9.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Adlafia minuscula*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Adlafia suchlandtii*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Amphipleura pellucida*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Amphora pediculus*	8	1.00	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Aulacoseira lirata*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Brachysira microcephala*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Caloneis bacillum*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Caloneis silicula*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Cocconeis pediculus*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Cocconeis placentula*	179	22.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Cymatopleura solea*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Diatoma mesodon*	3	0.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Diatoma moniliformis*	6	0.75	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Diatomella balfouriana*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Encyonema minutum*	15	1.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Encyonema prostratum*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Encyonema silesiacum*	7	0.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Encyonema yellowstonianum*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Eolimna minima*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Epithemia sorex*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Eunotia glacialis*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Fallacia subhamulata*	1	0.13	0

MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Fragilaria capucina sbsp. rumpens*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Fragilaria capucina var. gracilis*	3	0.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Fragilaria vaucheriae*	33	4.13	0.25
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Fragilariforma bicapitata*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Geissleria acceptata*	5	0.63	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Geissleria decussis*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphoneis eriense*	6	0.75	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphoneis olivaceum*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphonema kobayasii*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphonema micropus*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphonema parvulum var. exilissimum*	9	1.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphonema pumilum*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Gomphonema truncatum*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Hannaea arcus*	3	0.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Hantzschia amphioxys*	3	0.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Hippodonta capitata*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Luticola mutica*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Mayamaea atomus*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Melosira varians*	12	1.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Meridion circulare*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula antonii*	6	0.75	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula aurora*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula capitatoradiata*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula caterva*	41	5.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula cryptocephala*	7	0.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula cryptotenella*	25	3.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula germanii*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula gregaria*	7	0.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula radiosa*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula reichardtiana*	5	0.63	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula subhamulata*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula tenelloides*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Navicula tripunctata*	3	0.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Neidiomorpha binodiformis*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia acicularis*	2	0.25	0

MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia archibaldii*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia dissipata*	43	5.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia fonticola*	6	0.75	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia graciliformis*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia heufleriana*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia inconspicua*	11	1.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia linearis*	13	1.63	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia linearis var. subtilis*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia palea*	3	0.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia paleacea*	27	3.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia perminuta*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia pura*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia pusilla*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia recta*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Nitzschia sociabilis*	6	0.75	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Planothidium dubium*	7	0.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Planothidium frequentissimum*	31	3.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Planothidium lanceolatum*	9	1.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Psammothidium daonense*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Psammothidium subatomoides*	2	0.25	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Pseudostaurosira brevistriata*	4	0.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Pseudostaurosira parasitica*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Reimeria sinuata*	14	1.75	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Rhoicosphenia abbreviata*	12	1.50	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Sellaphora hustedtii*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Sellaphora pupula*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Stauroneis smithii*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Staurosira construens var binodis*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Staurosira construens var. venter*	19	2.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Staurosirella leptostauron var. dubia*	11	1.38	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Staurosirella pinnata*	5	0.63	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Staurosirella rhomboides*	8	1.00	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Stephanocyclus meneghiniana*	7	0.88	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Surirella angusta*	1	0.13	0
MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Surirella minuta*	7	0.88	0

MCWC- MWB	9/17/2014	E. Weber	E. Weber	1/23/2015	*Ulnaria ulna*	6	0.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Achnanthidium exigum*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Achnanthidium minutissimum*	39	4.88	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Achnanthidium pyrenaicum*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Adlafia minuscula*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Aulacoseira alpigena*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Caloneis bacillum*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Cocconeis pediculus*	7	0.88	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Cocconeis placentula*	158	19.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Cyclostephanos invisitatus*	4	0.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Cymbella affinis*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Cymbella compacta*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Cymbella janischii*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Diatoma moniliformis*	40	5.00	0.25
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Diatoma vulgaris*	29	3.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Encyonema minutum*	7	0.88	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Encyonema silesiacum*	6	0.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Eolimna minima*	4	0.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Epithemia sorex*	20	2.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Fragilaria capucina var. gracilis*	6	0.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Fragilaria vaucheriae*	13	1.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Geissleria acceptata*	9	1.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Geissleria decussis*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphoneis eriense*	5	0.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphoneis olivaceum*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphonema minutum*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphonema parvulum*	8	1.00	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphonema parvulum var. exilissimum*	3	0.38	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphonema pumilum*	4	0.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphonema sarcophagus*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Gomphonema truncatum*	14	1.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Luticola mutica*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Mayamaea atomus*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Melosira varians*	69	8.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Meridion circulare*	1	0.13	0

MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula antonii*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula capitatoradiata*	10	1.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula caterva*	35	4.38	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula cryptocephala*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula cryptotenella*	20	2.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula gregaria*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula reichardtiana*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Navicula tripunctata*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia acicularis*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia agnita*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia dissipata*	28	3.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia fonticola*	8	1.00	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia heufleriana*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia inconspicua*	6	0.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia lacuum*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia linearis*	4	0.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia linearis var. subtilis*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia palea*	10	1.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia paleacea*	52	6.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia pura*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia pusilla*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia recta*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Nitzschia vermicularis*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Planothidium dubium*	8	1.00	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Planothidium frequentissimum*	9	1.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Psammothidium daonense*	5	0.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Pseudostarosira parasitica*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Pseudostaurosira brevistriata*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Reimeria sinuata*	4	0.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Rhoicosphenia abbreviata*	5	0.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Sellaphora pupula*	4	0.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Stauroforma exiguiformis*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Stauroneis smithii*	1	0.13	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Staurosira construens var. venter*	6	0.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Staurosirella leptostauron*	1	0.13	0

MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Staurosirella leptostauron var. dubia*	2	0.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Staurosirella pinnata*	13	1.63	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Staurosirella rhombicum*	6	0.75	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Stephanocyclus meneghiniana*	12	1.50	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Ulnaria acus*	10	1.25	0
MWB-SBC	9/17/2014	E. Weber	E. Weber	1/26/2015	*Ulnaria ulna*	44	5.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Achnanthidium exigum*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Achnanthidium minutissimum*	17	2.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Amphora pediculus*	5	0.63	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Caloneis bacillum*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Cocconeis pediculus*	78	9.75	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Cocconeis placentula*	116	14.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Cyclostephanos invisitatus*	4	0.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Cymbella affinis*	4	0.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Diatoma moniliformis*	11	1.38	0.50
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Diatoma vulgaris*	26	3.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Encyonema cespitosum*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Encyonema silesiacum*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Eolimna minima*	3	0.38	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Epithemia sorex*	50	6.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Fallacia subhamulata*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Fragilaria capucina var. mesolepta*	13	1.63	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Fragilaria vaucheriae*	4	0.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphoneis eriense*	7	0.88	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphoneis minuta*	40	5.00	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphonema parvulum*	8	1.00	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphonema parvulum var. exilissimum*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphonema pumilum*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphonema subclavatum*	34	4.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Gomphonema truncatum*	3	0.38	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Halamphora veneta*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Hippodonta capitata*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Mayamaea atomus*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Melosira varians*	52	6.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Meridion circulare*	1	0.13	0

SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula antonii*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula capitatoradiata*	10	1.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula caterva*	9	1.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula cryptotenella*	5	0.63	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula gregaria*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula reichardtiana*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula tripunctata*	4	0.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Navicula trivialis*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia archibaldii*	4	0.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia dissipata*	4	0.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia fonticola*	20	2.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia hantzschiana*	5	0.63	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia linearis*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia palea*	5	0.63	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia paleacea*	57	7.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Nitzschia perminuta*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Planothidium dubium*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Planothidium frequentissimum*	6	0.75	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Planothidium lanceolatum*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Pseudostaurosira brevistriata*	5	0.63	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Reimeria sinuata*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Rhoicosphenia abbreviata*	9	1.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Rhopalodia gibba*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Staurosira construens var. venter*	10	1.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Staurosirella pinnata*	2	0.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Stephanocyclus meneghiniana*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Stephanodiscus hantzschii*	3	0.38	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Surirella brebissonii*	1	0.13	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Ulnaria acus*	44	5.50	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Ulnaria oxyrhynchus*	10	1.25	0
SS-25	9/17/2014	E. Weber	E. Weber	1/27/2015	*Ulnaria ulna*	80	10.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Achnanthidium minutissimum*	264	33.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Achnanthidium pyrenaicum*	9	1.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Adlafia minuscula*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Amphora pediculus*	3	0.38	0

WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Cocconeis pediculus*	6	0.75	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Cocconeis placentula*	30	3.75	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Cymbella affinis*	32	4.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Cymbella compacta*	18	2.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Cymbella janischii*	1	0.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Diatoma moniliformis*	27	3.38	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Didymosphenia geminata*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Encyonema minutum*	28	3.50	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Encyonema reichardtii*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Encyonema silesiacum*	28	3.50	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Eolimna minima*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Eucocconeis laevis*	1	0.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Fragilaria vaucheriae*	8	1.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Geissleria acceptata*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Gomphoneis pseudokunoi*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Gomphonema kobayasii*	1	0.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Melosira varians*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula antonii*	1	0.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula capitatoradiata*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula caterva*	10	1.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula cryptocephala*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula cryptotenella*	19	2.38	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula reichardtiana*	8	1.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Navicula tripunctata*	40	5.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia agnita*	1	0.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia dissipata*	13	1.63	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia fonticola*	52	6.50	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia gracilis*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia innominata*	1	0.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia intermedia*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia linearis*	5	0.63	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia pura*	37	4.63	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia pusilla*	3	0.38	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia recta*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia sociabilis*	1	0.13	0

WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Nitzschia sublinearis*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Planothidium dubium*	3	0.38	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Planothidium frequentissimum*	4	0.50	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Pseudostaurosira brevistriata*	53	6.63	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Reimeria sinuata*	10	1.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Staurosira construens*	3	0.38	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Staurosira construens var. venter*	21	2.63	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Staurosirella leptostauron*	6	0.75	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Staurosirella pinnata*	17	2.13	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Staurosirella rhomboides*	2	0.25	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Stautosirella leptostauron var. dubia*	4	1.00	0
WSC-SBC	9/17/2014	E.Weber	E. Weber	1/29/2015	*Ulnaria ulna*	4	0.50	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Achnanthidium alpestre*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Achnanthidium minutissimum*	132	16.50	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Amphipleura pellucida*	7	0.88	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Amphora pediculus*	8	1.00	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Cocconeis pediculus*	9	1.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Cocconeis placentula*	6	0.75	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Cymbella affinis*	21	2.63	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Cymbella compacta*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Diatoma moniliformis*	231	28.88	4.00
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Diatoma vulgaris*	128	16.00	0.25
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Encyonema minutum*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Encyonema silesiacum*	4	0.50	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Encyonopsis minuta*	84	10.50	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Encyonopsis subminuta*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria capucina*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria capucina var. gracilis*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria capucina var. mesolepta*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria nanana*	5	0.63	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Geissleria acceptata*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Gomphoneis olivaceum*	5	0.63	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema micropumilum*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema minutum*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema parvulum var. exilissimum*	2	0.25	0

LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema subclavatum*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema truncatum*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Navicula antonii*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Navicula aquaedurae*	8	1.00	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Navicula capitatoradiata*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Navicula cryptotenella*	9	1.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Navicula cryptotenelloides*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Navicula tripunctata*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia acidoclinata*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia agnita*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia amphibia*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia amphibioides*	3	0.38	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia dissipata*	5	0.63	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia hantzschiana*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia linearis*	5	0.63	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia palea*	8	1.00	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia recta*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia sociabilis*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Pseudostaurosira brevistriata*	12	1.50	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Reimeria sinuata*	3	0.38	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Rhoicosphenia abbreviata*	4	0.50	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Rhopalodia operculata*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Staurosira construens*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Staurosira construens var. venter*	9	1.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella leptostauron*	3	0.38	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella leptostauron var. dubia*	2	0.25	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella pinnata*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella rhomboides*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Stephanocyclus meneghiniana*	1	0.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria acus*	9	1.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria oxyrhynchus*	9	1.13	0
LC-7.5	9/17/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria ulna*	27	3.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Achnanthidium minutissimum*	239	29.88	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Achnanthidium pyrenaicum*	191	23.88	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Caloneis bacillum*	2	0.25	0

RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cocconeis pediculus*	4	0.50	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cocconeis placentula*	6	0.75	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cymbella affinis*	5	0.63	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Diatoma mesodon*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Diatoma moniliformis*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Encyonema minutum*	104	13.00	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Encyonema reichardtii*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Encyonema silesiacum*	31	3.88	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Eucocconeis laevis*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria capucina*	4	0.50	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria capucina sbsp. rumpens*	5	0.63	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria capucina var. gracilis*	21	2.63	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria vaucheriae*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Geissleria decussis*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema innocens*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema minutum*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema parvulum*	11	1.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema pumilum*	3	0.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema sp. 01*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Hippodonta capitata*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Hippodonta subtilissima*	11	1.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Melosira varians*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Meridion circulare*	3	0.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula antonii*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula caterva*	8	1.00	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula cryptocephala*	6	0.75	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula cryptotenella*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula gregaria*	21	2.63	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula harderii*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula reichardtiana*	10	1.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula tripunctata*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula viridula*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia archibaldii*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia dissipata*	4	0.50	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia fonticola*	4	0.50	0

RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia linearis*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia palea*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia pura*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia pusilla*	3	0.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia recta*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Planothidium dubium*	7	0.88	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Planothidium frequentissimum*	3	0.38	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Planothidium lanceolatum*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Psammothidium bioretii*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Psammothidium helveticum*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Psammothidium lauenbergianum*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Psammothidium subatomoides*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Pseudostaurosira brevistriata*	6	0.75	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Reimeria sinuata*	15	1.88	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Rhopalodia operculata*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosira construens var. venter*	6	0.75	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosirella leptostauron var. dubia*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosirella pinnata*	4	0.50	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosirella rhomboides*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Stephanocyclus meneghiniana*	2	0.25	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Surirella angusta*	1	0.13	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Ulnaria oxyrhynchus*	7	0.88	0
RTC-1.5	9/17/2014	E. Weber	E. Weber	2/3/2015	*Ulnaria ulna*	9	1.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Achnanthidium minutissimum*	35	4.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cocconeis disculus*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cocconeis pediculus*	19	2.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cocconeis placentula*	74	9.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cymbella janischii*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Diatoma moniliformis*	290	36.25	1.13
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Diatoma vulgaris*	3	0.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Encyonema minutum*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Encyonema silesiacum*	9	1.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Eolimna minima*	6	0.75	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Epithemia sorex*	78	9.75	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Fragilaria capucina sbsp. rumpens*	2	0.25	0

LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Fragilaria capucina var. gracilis*	8	1.00	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphoneis eriense*	9	1.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema kobayasii*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema micropumilum*	3	0.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema minutum*	4	0.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Hippodonta capitata*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Mayamaea atomus*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Melosira varians*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Meridion circulare*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula capitatoradiata*	5	0.63	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula caterva*	23	2.88	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula cryptotenella*	4	0.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula cryptotenelloides*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula reichardtiana*	7	0.88	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula tripunctata*	3	0.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia agnita*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia archibaldii*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia dissipata*	44	5.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia fonticola*	10	1.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia hantzschiana*	6	0.75	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia heufleriana*	4	0.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia inconspicua*	4	0.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia linearis*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia palea*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia paleacea*	24	3.00	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia supralitorea*	4	0.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia vermicularis*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Planothidium dubium*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Planothidium frequentissimum*	9	1.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Planothidium lanceolatum*	5	0.63	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Psammothidium subatomoides*	2	0.25	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Pseudostaurosira brevistriata*	12	1.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Reimeria sinuata*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Rhoicosphenia abbreviata*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Sellaphora pupula*	4	0.50	0

LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosira construens var. pumila*	4	0.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosira construens var. venter*	12	1.50	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosirella pinnata*	3	0.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Stephanocyclus meneghiniana*	8	1.00	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Surirella angusta*	1	0.13	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Ulnaria acus*	19	2.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Ulnaria spathulifera*	11	1.38	0
LBR-CFR-02	9/16/2014	E. Weber	E. Weber	2/11/2015	*Ulnaria ulna*	6	0.75	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Achnanthidium minutissimum*	29	3.63	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Amphora pediculus*	23	2.88	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Cocconeis pediculus*	81	10.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Cocconeis placentula*	108	13.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Cymbella affinis*	17	2.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Cymbella compacta*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Diatoma mesodon*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Diatoma moniliformis*	35	4.38	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Diatoma vulgaris*	60	7.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Encyonema minutum*	6	0.75	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Encyonema silesiacum*	5	0.63	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Encyonopsis cesatii*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Eolimna minima*	8	1.00	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Epithemia sorex*	57	7.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Fragilaria capucina*	12	1.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Fragilaria vaucheriae*	3	0.38	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Geissleria acceptata*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gomphoneis eriense*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gomphoneis minuta*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gomphoneis olivaceum*	6	0.75	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gomphonema parvulum var. exilissimum*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gomphonema subclavatum*	3	0.38	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gomphonema truncatum*	4	0.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Gyrosigma acuminatum*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Mayamaea atomus*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula capitatoradiata*	4	0.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula caterva*	13	1.63	0

CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula cryptotenella*	16	2.00	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula cryptotenelloides*	19	2.38	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula gregaria*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula lanceolata*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Navicula tripunctata*	29	3.63	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia archibaldii*	8	1.00	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia dissipata*	22	2.75	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia fonticola*	23	2.88	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia heufleriana*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia inconspicua*	33	4.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia linearis*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia palea*	5	0.63	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia paleacea*	58	7.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia perminuta*	6	0.75	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Nitzschia pura*	9	1.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Planothidium dubium*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Planothidium frequentissimum*	4	0.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Planothidium lanceolatum*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Pseudostaurosira brevistriata*	12	1.50	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Reimeria sinuata*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Rhoicosphenia abbreviata*	15	1.88	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Sellaphora pupula*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Staurosira construens var. venter*	2	0	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Staurosirella leptostauron*	3	0.38	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Staurosirella pinnata*	3	0.38	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Stephanocyclus meneghiniana*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Stephanodiscus hantzschii*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Surirella angusta*	1	0.13	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Surirella minuta*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Ulnaria acus*	15	1.88	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Ulnaria oxyrhynchus*	2	0.25	0
CFR-03A	9/17/2014	E. Weber	E. Weber	1/30/2015	*Ulnaria ulna*	11	1.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Achnanthidium minutissimum*	15	1.88	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Adlafia suchlandtii*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Amphipleura pellucida*	1	0.13	0

CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Amphora pediculus*	7	0.88	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cocconeis pediculus*	38	4.75	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cocconeis placentula*	64	8.00	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cyclostephanos invisitatus*	5	0.63	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cymbella affinis*	19	2.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Cymbella compacta*	7	0.88	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Diatoma moniliformis*	71	8.88	0.63
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Diatoma vulgaris*	166	20.75	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Encyonema minutum*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Encyonema silesiacum*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Encyonopsis minuta*	10	1.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Eolimna minima*	16	2.00	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Epithemia sorex*	50	6.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria capucina*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria capucina var. gracilis*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Fragilaria vaucheriae*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Geissleria acceptata*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphoneis olivaceum*	18	2.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema minutum*	3	0.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema parvulum*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Gomphonema truncatum*	4	0.50	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Hannaea arcus*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Hippodonta capitata*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula antonii*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula capitatoradiata*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula caterva*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula cryptocephala*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula cryptotenella*	30	3.75	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula cryptotenelloides*	14	1.75	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula gregaria*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula libonensis*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Navicula tripunctata*	15	1.88	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia acicularis*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia acidoclinata*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia archibaldii*	4	0.50	0

CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia dissipata*	35	4.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia fonticola*	33	4.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia inconspicua*	6	0.75	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia lacuum*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia linearis*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia palea*	4	0.50	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia paleacea*	27	3.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia pusilla*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia sociabilis*	4	0.50	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia sublinearis*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Nitzschia supralitorea*	5	0.63	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Planothidium dubium*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Planothidium frequentissimum*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Psammothidium subatomoides*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Pseudostaurosira brevistriata*	4	0.50	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Reimeria sinuata*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Rhoicosphenia abbreviata*	2	0.25	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosira construens var. venter*	11	1.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosirella leptostauron*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosirella pinnata*	8	1.00	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Staurosirella rhombicum*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Stephanocyclus meneghiniana*	3	0.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Stephanodiscus hantzschii*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Surirella minuta*	3	0.38	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Ulnaria acus*	16	2.00	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Ulnaria oxyrhynchus*	1	0.13	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Ulnaria spathulifera*	7	0.88	0
CFR-07D	9/17/2014	E. Weber	E. Weber	2/3/2015	*Ulnaria ulna*	37	4.63	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Achnanthidium minutissimum*	9	1.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Achnanthidium pyrenaicum*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Adlafia minuscula*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Amphipleura pellucida*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Amphora pediculus*	21	2.63	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Cocconeis disculus*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Cocconeis pediculus*	96	12.00	0

CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Cocconeis placentula*	90	11.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Cyclotella distinguenda*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Cymbella affinis*	13	1.63	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Cymbella compacta*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Diatoma moniliformis*	85	10.63	1.00
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Diatoma tenuis*	22	2.75	0.50
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Diatoma vulgaris*	9	1.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Encyonema minutum*	3	0.38	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Encyonema silesiacum*	9	1.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Encyonopsis cesatii*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Encyonopsis descripta*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Eolimna minima*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Epithemia sorex*	103	12.88	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Epithemia turgida*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria capucina*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria capucina subsp. rumpens*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Fragilaria capucina var. gracilis*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Geissleria acceptata*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Geissleria decussis*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Gomphoneis olivaceum*	88	11.00	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Gomphoneis pseudokunoi*	6	0.75	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema minutum*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Gomphonema subclavatum*	6	0.75	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Mayamaea atomus*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Melosira varians*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula caterva*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula cryptotenella*	12	1.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula cryptotenelloides*	8	1.00	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula lanceolata*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula reichardtiana*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula tripunctata*	8	1.00	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Navicula veneta*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Neidium ampliatum*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia amphibia*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia dissipata*	15	1.88	0

CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia fonticola*	12	1.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia heufleriana*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia inconspicua*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia linearis*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia palea*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia paleacea*	20	2.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia pura*	3	0.38	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia pusilla*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia sigmoidea*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia sociabilis*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Nitzschia sublinearis*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Planothidium dubium*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Planothidium frequentissimum*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Planothidium lanceolatum*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Pseudostaurosira brevistriata*	14	1.75	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Reimeria sinuata*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Rhoicosphenia abbreviata*	24	3.00	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Rhopalodia gibba*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Staurosira construens var. venter*	3	0.38	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella leptostauron*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella leptostauron var. dubia*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella pinnata*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Staurosirella rhomboides*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Stephanocyclus meneghiniana*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Stephanodiscus hantzschii*	2	0.25	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Surirella minuta*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria acus*	22	2.75	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria oxyrhynchus*	1	0.13	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria spathulifera*	4	0.50	0
CFR-11F	9/16/2014	E. Weber	E. Weber	2/9/2015	*Ulnaria ulna*	13	1.63	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Achnanthidium minutissimum*	32	4.00	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Adlafia minuscula*	4	0.50	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Amphora ovalis*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Amphora pediculus*	122	15.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Caloneis bacillum*	8	1.00	0

CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Cocconeis pediculus*	125	15.63	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Cocconeis placentula*	70	8.75	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Cymbella affinis*	3	0.38	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Cymbella compacta*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Diatoma moniliformis*	106	13.25	0.63
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Diatoma vulgaris*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Encyonema minutum*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Encyonema reichardtii*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Encyonema silesiacum*	8	1.00	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Eolimna minima*	14	1.75	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Epithemia sorex*	9	1.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Fragilaria capucina*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Geissleria acceptata*	3	0.38	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Geissleria decussis*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Gomphoneis olivaceum*	26	3.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Gomphonema micropus*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Gomphonema truncatum*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Halamphora veneta*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Hippodonta subtilissima*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Luticola mutica*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Mayamaea atomus*	4	0.50	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Melosira varians*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Meridion circulare*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula antonii*	5	0.63	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula capitatoradiata*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula caterva*	10	1.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula cryptotenella*	59	7.38	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula cryptotenelloides*	7	0.88	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula reichardtiana*	14	1.75	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Navicula tripunctata*	27	3.38	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia acidoclinata*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia dissipata*	15	1.88	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia fonticola*	5	0.63	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia graciliformis*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia inconspicua*	10	1.25	0

CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia linearis*	8	1.00	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia palea*	8	1.00	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia paleacea*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia pura*	3	0.38	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia sociabilis*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Nitzschia umbonata*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Planothidium frequentissimum*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Pseudostaurosira brevistriata*	8	1.00	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Reimeria sinuata*	13	1.63	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Rhoicosphenia abbreviata*	14	1.75	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Sellaphora pupula*	3	0.38	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Simonsenia delognei*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Staurosira construens var. venter*	10	1.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Staurosirella leptostauron*	4	0.50	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Surirella minuta*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Tryblionella hungarica*	1	0.13	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Ulnaria acus*	2	0.25	0
CFR-27H	9/16/2014	E. Weber	E. Weber	2/10/2015	*Ulnaria ulna*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Achnanthidium minutissimum*	39	4.88	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Adlafia suchlandtii*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Amphora copulata*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Amphora inariensis*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Amphora pediculus*	15	1.88	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Caloneis bacillum*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cocconeis pediculus*	24	3.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cocconeis placentula*	40	5.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cyclostephanos invisitatus*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Cymbella affinis*	94	11.75	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Diatoma moniliformis*	30	3.75	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Diatoma vulgaris*	32	4.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Encyonema minutum*	58	7.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Encyonema muelleri*	10	1.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Encyonema silesiacum*	12	1.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Epithemia adnata*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Epithemia sorex*	146	18.25	0

CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Epithemia turgida*	5	0.63	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Fragilaria capucina*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Fragilaria vaucheriae*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Geissleria acceptata*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphoneis eriense*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphoneis olivaceum*	3	0.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema micropumilum*	11	1.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema micropus*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema minusculum*	6	0.75	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema minutum*	4	0.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema parvulum*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Gomphonema rhombicum*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Melosira varians*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula antonii*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula capitatoradiata*	12	1.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula caterva*	11	1.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula cryptotenella*	9	1.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula gregaria*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula lanceolata*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula reichardtiana*	4	0.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula tripunctata*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Navicula veneta*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia archibaldii*	4	0.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia dissipata*	36	4.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia fonticola*	10	1.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia graciliformis*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia hantzschiana*	10	1.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia heufleriana*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia inconspicua*	16	2.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia linearis*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia palea*	4	0.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia paleacea*	20	2.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia perminuta*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia pura*	3	0.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia recta*	1	0.13	0

CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Nitzschia sociabilis*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Placoneis elginensis*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Planothidium frequentissimum*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Pseudostaurosira brevistriata*	22	2.75	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Reimeria sinuata*	8	1.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Rhoicosphenia abbreviata*	8	1.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Sellaphora pupula*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosira construens var. binodus*	5	0.63	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosira construens var. venter*	12	1.50	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosirella leptostauron*	6	0.75	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosirella leptostauron var. dubia*	2	0.25	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosirella pinnata*	8	1.00	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Staurosirella rhomboides*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Stephanocyclus meneghiniana*	3	0.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Surirella angusta*	1	0.13	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Surirella minuta*	3	0.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Ulnaria acus*	3	0.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Ulnaria spathulifera*	3	0.38	0
CFR-116A	9/16/2014	E. Weber	E. Weber	2/11/2015	*Ulnaria ulna*	3	0.38	0

APPENDIX H

MACROINVERTEBRATE DATA

APPENDIX H
MACROINVERTEBRATE MONITORING DATA

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC001

RAI No.: PBSJ14CFRC001 **Sta. Name:** Silver Bow Creek at Warm Springs - Composite
Client ID: SS-25
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Hydrozoa	1	0.01%	Yes	Unknown		8	PR
Trepaxonemata	780	9.97%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Asellidae							
Caecidotea sp.	29	0.37%	Yes	Unknown		8	CG
Glossiphoniidae							
Helobdella stagnalis	1	0.01%	Yes	Unknown		10	PR
Hyalellidae							
Hyalella sp.	46	0.59%	Yes	Unknown		8	CG
Physidae							
Physella sp.	1	0.01%	Yes	Unknown		8	SC
Planorbidae							
Gyraulus sp.	2	0.03%	Yes	Unknown		8	SC
Sphaeriidae							
Pisidium sp.	112	1.43%	Yes	Unknown		8	CF
Sphaeriidae	9	0.12%	No	Immature		8	CF
Oligochaeta							
Enchytraeidae							
Enchytraeidae	13	0.17%	Yes	Unknown		4	CG
Naididae							
Naidinae	7	0.09%	Yes	Unknown		8	CG
Tubificinae	22	0.28%	Yes	Unknown		10	CG
Odonata							
Coenagrionidae							
Coenagrionidae	1	0.01%	Yes	Larva	Damaged	8	PR
Ephemeroptera							
Baetidae							
Baetis tricaudatus complex	162	2.07%	Yes	Larva		4	CG
Diphetor hageni	1	0.01%	Yes	Larva		5	CG
Iswaeon sp.	3	0.04%	Yes	Larva		6	UN
Ephemerellidae							
Drunella sp.	1	0.01%	Yes	Larva	Early Instar	11	SC
Ephemerellidae	1	0.01%	No	Larva	Early Instar	11	CG
Leptohyphidae							
Tricorythodes sp.	212	2.71%	Yes	Larva		4	CG
Plecoptera							
Nemouridae							
Malenka sp.	1	0.01%	Yes	Larva		2	SH
Pteronarcyidae							
Pteronarcella sp.	13	0.17%	Yes	Larva		3	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC001

RAI No.: PBSJ14CFRC001 **Sta. Name:** Silver Bow Creek at Warm Springs - Composite
Client ID: SS-25
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Brachycentridae	2	0.03%	No	Pupa		11	CF
Brachycentrus occidentalis	250	3.19%	Yes	Larva		2	CF
Glossosomatidae							
Glossosoma sp.	8	0.10%	Yes	Larva		0	SC
Protoptila sp.	18	0.23%	Yes	Larva		1	SC
Helicopsychidae							
Helicopsyche sp.	2	0.03%	Yes	Larva		3	SC
Hydropsychidae							
Ceratopsyche cockerelli	71	0.91%	Yes	Larva		4	CF
Cheumatopsyche sp.	1905	24.34%	Yes	Larva		5	CF
Hydropsyche occidentalis	306	3.91%	Yes	Larva		5	CF
Hydropsychidae	494	6.31%	No	Larva	Early Instar	11	CF
Hydropsychidae	60	0.77%	No	Pupa		11	CF
Hydroptilidae							
Hydroptila sp.	145	1.85%	Yes	Larva		6	PH
Hydroptilidae	369	4.72%	No	Pupa		11	PH
Ochrotrichia sp.	1	0.01%	Yes	Larva		4	PH
Lepidostomatidae							
Lepidostoma sp.	1	0.01%	Yes	Larva		1	SH
Leptoceridae							
Leptoceridae	1	0.01%	Yes	Larva	Damaged	11	CG
Nectopsyche sp.	1	0.01%	Yes	Larva		3	SH
Oecetis sp.	75	0.96%	Yes	Larva		8	PR
Lepidoptera							
Crambidae							
Petrophila sp.	16	0.20%	Yes	Larva		5	SC
Coleoptera							
Elmidae							
Cleptelmis addenda	16	0.20%	No	Larva		4	CG
Cleptelmis addenda	1	0.01%	Yes	Adult		4	CG
Optioservus sp.	748	9.56%	No	Larva		5	SC
Optioservus sp.	62	0.79%	Yes	Adult		5	SC
Zaitzevia sp.	25	0.32%	Yes	Adult		4	CG
Zaitzevia sp.	554	7.08%	No	Larva		4	CG

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC001

RAI No.: PBSJ14CFRC001 **Sta. Name:** Silver Bow Creek at Warm Springs - Composite
Client ID: SS-25
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Empididae							
Empididae	6	0.08%	No	Pupa		11	PR
Hemerodromia sp.	6	0.08%	Yes	Larva		6	PR
Neoplasta sp.	1	0.01%	Yes	Larva		5	PR
Psychodidae							
Pericoma / Telmatoscopus	1	0.01%	Yes	Larva		4	CG
Simuliidae							
Simulium sp.	247	3.16%	Yes	Larva		6	CF
Simulium sp.	28	0.36%	No	Pupa		6	CF
Tipulidae							
Antocha monticola	6	0.08%	Yes	Larva		3	CG
Hexatoma sp.	2	0.03%	Yes	Larva		2	PR
Chironomidae							
Chironomidae							
Cryptochironomus sp.	1	0.01%	No	Pupa		8	PR
Cryptochironomus sp.	1	0.01%	Yes	Larva		8	PR
Microtendipes sp.	94	1.20%	Yes	Larva		6	CF
Parachironomus sp.	1	0.01%	Yes	Larva		10	PR
Polypedilum sp.	7	0.09%	No	Pupa		6	SH
Polypedilum sp.	62	0.79%	Yes	Larva		6	SH
Pseudochironomus sp.	1	0.01%	No	Pupa		11	CG
Pseudochironomus sp.	2	0.03%	Yes	Larva		11	CG
Micropsectra sp.	2	0.03%	Yes	Larva		11	CG
Rheotanytarsus sp.	1	0.01%	Yes	Larva		11	CF
Stempellinella sp.	1	0.01%	Yes	Larva		11	CG
Pagastia sp.	2	0.03%	Yes	Larva		1	CG
Potthastia Longimana Gr.	4	0.05%	Yes	Larva		2	CG
Chaetocladius sp.	9	0.12%	Yes	Larva		11	CG
Cricotopus sp.	2	0.03%	Yes	Larva		7	SH
Cricotopus (Nostococladius) sp.	22	0.28%	Yes	Larva		6	SH
Eukiefferiella sp.	1	0.01%	No	Pupa		8	CG
Eukiefferiella sp.	113	1.44%	Yes	Larva		8	CG
Nanocladius sp.	1	0.01%	Yes	Larva		3	CG
Orthocladiinae	4	0.05%	No	Larva	Early Instar	11	CG
Orthocladius sp.	7	0.09%	Yes	Larva		6	CG
Parametriocnemus sp.	5	0.06%	No	Pupa		5	CG
Parametriocnemus sp.	130	1.66%	Yes	Larva		5	CG
Tvetenia sp.	488	6.24%	Yes	Larva		5	CG
Tvetenia sp.	9	0.12%	No	Pupa		5	CG
Thienemannimyia Gr.	10	0.13%	Yes	Larva		11	PR
Sample Count	**7826**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC002

RAI No.: PBSJ14CFRC002
Client ID: CFR-03A
Date Coll.: 8/7/2014 **No. Jars:** 1
Sta. Name: Clark Fork near Galen (Perkins Ln. bridge) - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	34	0.52%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Glossiphoniidae							
Helobdella stagnalis	2	0.03%	Yes	Unknown		10	PR
Planorbidae							
Gyraulus sp.	1	0.02%	Yes	Unknown		8	SC
Sphaeriidae							
Pisidium sp.	11	0.17%	Yes	Unknown		8	CF
Oligochaeta							
Enchytraeidae							
Enchytraeidae	15	0.23%	Yes	Unknown		4	CG
Naididae							
Naidinae	64	0.99%	Yes	Unknown		8	CG
Tubificinae	12	0.18%	Yes	Unknown		10	CG
Odonata							
Gomphidae							
Gomphidae	2	0.03%	No	Larva	Early Instar	11	PR
Ophiogomphus sp.	2	0.03%	Yes	Larva		5	PR
Ephemeroptera							
Baetidae							
Acentrella insignificans	2	0.03%	Yes	Larva		4	CG
Baetis tricaudatus complex	152	2.34%	Yes	Larva		4	CG
Iswaeon sp.	7	0.11%	Yes	Larva		6	UN
Ephemerellidae							
Attenella margarita	76	1.17%	Yes	Larva		3	CG
Drunella sp.	3	0.05%	Yes	Larva	Early Instar	11	SC
Ephemerellidae	5	0.08%	No	Larva	Early Instar	11	CG
Heptageniidae							
Heptagenia sp.	1	0.02%	Yes	Larva		4	SC
Leptohyphidae							
Tricorythodes sp.	76	1.17%	Yes	Larva		4	CG
Plecoptera							
Nemouridae							
Malenka sp.	1	0.02%	Yes	Larva		2	SH
Perlidae							
Hesperoperla pacifica	1	0.02%	Yes	Larva		11	PR
Perlidae	1	0.02%	No	Larva	Early Instar	11	PR
Perlodidae							
Perlodidae	4	0.06%	No	Larva	Early Instar	11	PR
Skwala sp.	36	0.55%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcella sp.	14	0.22%	Yes	Larva		3	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC002

RAI No.: PBSJ14CFRC002
Client ID: CFR-03A
Date Coll.: 8/7/2014 **No. Jars:** 1

Sta. Name: Clark Fork near Galen (Perkins Ln. bridge) - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Brachycentridae	1	0.02%	No	Pupa		11	CF
Brachycentrus occidentalis	517	7.96%	Yes	Larva		2	CF
Glossosomatidae							
Glossosoma sp.	79	1.22%	Yes	Larva		0	SC
Glossosomatidae	13	0.20%	No	Pupa		11	SC
Protoptila sp.	147	2.26%	Yes	Larva		1	SC
Helicopsychidae							
Helicopsyche sp.	20	0.31%	Yes	Larva		3	SC
Hydropsychidae							
Ceratopsyche sp.	312	4.81%	No	Larva	Early Instar	5	CF
Ceratopsyche cockerelli	180	2.77%	Yes	Larva		4	CF
Ceratopsyche slossonae	3	0.05%	Yes	Larva		4	CF
Cheumatopsyche sp.	15	0.23%	Yes	Larva		5	CF
Hydropsyche sp.	5	0.08%	No	Larva	Early Instar	5	CF
Hydropsyche occidentalis	2	0.03%	Yes	Larva		5	CF
Hydropsychidae	171	2.63%	No	Larva	Early Instar	11	CF
Hydropsychidae	2	0.03%	No	Pupa		11	CF
Hydroptilidae							
Hydroptila sp.	20	0.31%	Yes	Larva		6	PH
Hydroptilidae	24	0.37%	No	Pupa		11	PH
Ochrotrichia sp.	2	0.03%	Yes	Larva		4	PH
Lepidostomatidae							
Lepidostoma sp.	9	0.14%	Yes	Larva		1	SH
Leptoceridae							
Leptoceridae	4	0.06%	No	Pupa		11	CG
Oecetis sp.	6	0.09%	Yes	Larva		8	PR
Limnephilidae							
Onocosmoecus unicolor	1	0.02%	Yes	Larva		11	SH
Psychomyiidae							
Psychomyiidae	2	0.03%	Yes	Larva	Early Instar	2	CG
Rhyacophilidae							
Rhyacophila sp.	1	0.02%	No	Larva	Early Instar	11	PR
Rhyacophila sp.	2	0.03%	No	Pupa		11	PR
Rhyacophila Brunnea/Vemna Gr.	3	0.05%	Yes	Larva		2	PR
Coleoptera							
Elmidae							
Cleptelmis addenda	13	0.20%	Yes	Adult		4	CG
Cleptelmis addenda	131	2.02%	No	Larva		4	CG
Elmidae	1	0.02%	No	Larva	Early Instar	11	CG
Optioservus sp.	929	14.31%	No	Larva		5	SC
Optioservus sp.	185	2.85%	Yes	Adult		5	SC
Zaitzevia sp.	252	3.88%	No	Larva		4	CG
Zaitzevia sp.	41	0.63%	Yes	Adult		4	CG

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC002

RAI No.: PBSJ14CFRC002
Client ID: CFR-03A
Date Coll.: 8/7/2014 **No. Jars:** 1
Sta. Name: Clark Fork near Galen (Perkins Ln. bridge) - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Diptera	1	0.02%	No	Pupa	Damaged	11	UN
Athericidae							
Atherix sp.	131	2.02%	Yes	Larva		4	PR
Empididae							
Chelifera / Metachela sp.	1	0.02%	Yes	Larva		5	PR
Empididae	13	0.20%	No	Pupa		11	PR
Simuliidae							
Simulium sp.	19	0.29%	No	Pupa		6	CF
Simulium sp.	184	2.83%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	20	0.31%	No	Pupa		3	CG
Antocha monticola	232	3.57%	Yes	Larva		3	CG
Hexatoma sp.	3	0.05%	Yes	Larva		2	PR
Chironomidae							
Chironomidae							
Microtendipes sp.	71	1.09%	Yes	Larva		6	CF
Polypedilum sp.	32	0.49%	Yes	Larva		6	SH
Polypedilum sp.	1	0.02%	No	Pupa		6	SH
Micropsectra sp.	4	0.06%	Yes	Larva		11	CG
Rheotanytarsus sp.	4	0.06%	Yes	Larva		11	CF
Pagastia sp.	71	1.09%	Yes	Larva		1	CG
Cardiocladius sp.	3	0.05%	Yes	Larva		5	PR
Corynoneura sp.	1	0.02%	Yes	Larva		7	CG
Cricotopus sp.	18	0.28%	Yes	Larva		7	SH
Cricotopus sp.	23	0.35%	No	Pupa		7	SH
Cricotopus (Nostococladius) sp.	1690	26.03%	Yes	Larva		6	SH
Eukiefferiella sp.	2	0.03%	No	Pupa		8	CG
Eukiefferiella sp.	63	0.97%	Yes	Larva		8	CG
Nanocladius sp.	4	0.06%	Yes	Larva		3	CG
Orthocladiinae	6	0.09%	No	Larva	Early Instar	11	CG
Orthocladiinae	3	0.05%	No	Pupa	Damaged	11	CG
Orthocladius sp.	66	1.02%	Yes	Larva		6	CG
Parametriocnemus sp.	2	0.03%	Yes	Larva		5	CG
Tvetenia sp.	199	3.07%	Yes	Larva		5	CG
Tvetenia sp.	2	0.03%	No	Pupa		5	CG
Pentaneura sp.	3	0.05%	Yes	Larva		6	PR
Tanypodinae	1	0.02%	No	Pupa	Damaged	11	PR
Thienemannimyia Gr.	4	0.06%	Yes	Larva		11	PR
Sample Count	**6492**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC003

RAI No.: PBSJ14CFRC003 **Sta. Name:** Clark Fork at Galen Road - Composite
Client ID: CFR-07D
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	3	0.07%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Glossiphoniidae							
Glossiphonia complanata	1	0.02%	Yes	Unknown		9	PR
Helobdella stagnalis	1	0.02%	Yes	Unknown		10	PR
Sphaeriidae							
Pisidium sp.	6	0.15%	Yes	Unknown		8	CF
Oligochaeta							
Enchytraeidae							
Enchytraeidae	51	1.24%	Yes	Unknown		4	CG
Naididae							
Naidinae	27	0.66%	Yes	Unknown		8	CG
Rhyacodrilinae	1	0.02%	Yes	Unknown		10	CG
Tubificinae	1	0.02%	Yes	Unknown		10	CG
Ephemeroptera							
Baetidae							
Acentrella sp.	4	0.10%	Yes	Larva	Damaged	4	CG
Baetis tricaudatus complex	40	0.98%	Yes	Larva		4	CG
Diphetor hageni	2	0.05%	Yes	Larva		5	CG
Ephemerellidae							
Attenella margarita	6	0.15%	Yes	Larva		3	CG
Drunella sp.	2	0.05%	Yes	Larva	Early Instar	11	SC
Leptohyphidae							
Tricorythodes sp.	3	0.07%	Yes	Larva		4	CG
Plecoptera							
Perlidae							
Hesperoperla pacifica	2	0.05%	Yes	Larva		11	PR
Perlodidae							
Perlodidae	1	0.02%	No	Larva	Early Instar	11	PR
Skwala sp.	39	0.95%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcella sp.	2	0.05%	Yes	Larva		3	SH
Pteronarcys sp.	11	0.27%	Yes	Larva	Damaged	2	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC003

RAI No.: PBSJ14CFRC003 **Sta. Name:** Clark Fork at Galen Road - Composite
Client ID: CFR-07D
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Brachycentridae	37	0.90%	No	Pupa		11	CF
Brachycentrus occidentalis	563	13.73%	Yes	Larva		2	CF
Glossosomatidae							
Glossosoma sp.	27	0.66%	Yes	Larva		0	SC
Glossosomatidae	9	0.22%	No	Pupa		11	SC
Protoptila sp.	4	0.10%	Yes	Larva		1	SC
Helicopsychidae							
Helicopsyche sp.	7	0.17%	Yes	Larva		3	SC
Hydropsychidae							
Ceratopsyche cockerelli	608	14.83%	Yes	Larva		4	CF
Cheumatopsyche sp.	11	0.27%	Yes	Larva		5	CF
Hydropsyche occidentalis	65	1.58%	Yes	Larva		5	CF
Hydropsychidae	42	1.02%	No	Pupa		11	CF
Hydropsychidae	134	3.27%	No	Larva	Early Instar	11	CF
Hydroptilidae							
Hydroptila sp.	8	0.20%	Yes	Larva		6	PH
Hydroptilidae	8	0.20%	No	Pupa		11	PH
Lepidostomatidae							
Lepidostoma sp.	1	0.02%	Yes	Larva		1	SH
Rhyacophilidae							
Rhyacophila sp.	1	0.02%	No	Pupa		11	PR
Rhyacophila sp.	1	0.02%	Yes	Larva	Early Instar	11	PR
Rhyacophila Brunnea/Vemna Gr.	8	0.20%	Yes	Larva		2	PR
Coleoptera							
Elmidae							
Cleptelmis addenda	78	1.90%	No	Larva		4	CG
Cleptelmis addenda	9	0.22%	Yes	Adult		4	CG
Optioservus sp.	871	21.24%	No	Larva		5	SC
Optioservus sp.	138	3.37%	Yes	Adult		5	SC
Zaitzevia sp.	13	0.32%	Yes	Adult		4	CG
Zaitzevia sp.	91	2.22%	No	Larva		4	CG

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC003

RAI No.: PBSJ14CFRC003 **Sta. Name:** Clark Fork at Galen Road - Composite
Client ID: CFR-07D
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Athericidae							
Atherix sp.	18	0.44%	Yes	Larva		4	PR
Ceratopogonidae							
Ceratopogoninae	1	0.02%	Yes	Larva		6	PR
Empididae							
Chelifera / Metachela sp.	1	0.02%	Yes	Larva		5	PR
Empididae	5	0.12%	No	Pupa		11	PR
Simuliidae							
Simulium sp.	34	0.83%	No	Pupa		6	CF
Simulium sp.	117	2.85%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	148	3.61%	Yes	Larva		3	CG
Antocha monticola	14	0.34%	No	Pupa		3	CG
Hexatoma sp.	3	0.07%	Yes	Larva		2	PR
Tipulidae	3	0.07%	Yes	Larva	Damaged	11	SH
Chironomidae							
Chironomidae							
Microtendipes sp.	4	0.10%	Yes	Larva		6	CF
Polypedilum sp.	1	0.02%	No	Pupa		6	SH
Polypedilum sp.	29	0.71%	Yes	Larva		6	SH
Pagastia sp.	69	1.68%	Yes	Larva		1	CG
Cardiocladius sp.	10	0.24%	Yes	Larva		5	PR
Cardiocladius sp.	1	0.02%	No	Pupa		5	PR
Cricotopus sp.	15	0.37%	No	Pupa		7	SH
Cricotopus sp.	4	0.10%	Yes	Larva		7	SH
Cricotopus (Nostococladius) sp.	410	10.00%	Yes	Larva		6	SH
Eukiefferiella sp.	3	0.07%	No	Pupa		8	CG
Eukiefferiella sp.	32	0.78%	Yes	Larva		8	CG
Orthocladius sp.	54	1.32%	Yes	Larva		6	CG
Parametriocnemus sp.	3	0.07%	Yes	Larva		5	CG
Tvetenia sp.	166	4.05%	Yes	Larva		5	CG
Tvetenia sp.	1	0.02%	No	Pupa		5	CG
Tanypodinae	3	0.07%	No	Pupa	Damaged	11	PR
Thienemannimyia Gr.	15	0.37%	Yes	Larva		11	PR
Sample Count	**4101**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC004

RAI No.: PBSJ14CFRC004
Client ID: CFR-11F
Date Coll.: 8/8/2014 **No. Jars:** 1

Sta. Name: Clark Fork at Gem Backroad near Racetrack - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	2	0.09%	Yes	Unknown		5	PR
Physidae							
Physella sp.	1	0.04%	Yes	Unknown		8	SC
Planorbidae							
Gyraulus sp.	1	0.04%	Yes	Unknown		8	SC
Oligochaeta							
Enchytraeidae							
Enchytraeidae	2	0.09%	Yes	Unknown		4	CG
Naididae							
Rhyacodrilinae	1	0.04%	Yes	Unknown		10	CG
Tubificinae	17	0.73%	Yes	Unknown		10	CG
Odonata							
Gomphidae							
Gomphidae	2	0.09%	Yes	Larva	Damaged	11	PR
Ephemeroptera							
Baetidae							
Acentrella sp.	2	0.09%	Yes	Larva	Damaged	4	CG
Baetidae	2	0.09%	Yes	Larva	Early Instar	11	CG
Baetis tricaudatus complex	18	0.77%	Yes	Larva		4	CG
Iswaeon sp.	4	0.17%	Yes	Larva		6	UN
Ephemerellidae							
Attenella margarita	17	0.73%	Yes	Larva		3	CG
Drunella sp.	3	0.13%	Yes	Larva	Early Instar	11	SC
Drunella grandis	4	0.17%	Yes	Larva		2	PR
Ephemerella excrucians	1	0.04%	Yes	Larva		4	SH
Ephemerellidae	16	0.68%	No	Larva	Damaged	11	CG
Heptageniidae							
Ecdyonurus criddlei	2	0.09%	Yes	Larva		4	SH
Leptohyphidae							
Tricorythodes sp.	80	3.42%	Yes	Larva		4	CG
Plecoptera							
Perlodidae							
Skwala sp.	38	1.63%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcys sp.	14	0.60%	Yes	Larva	Early Instar	2	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC004

RAI No.: PBSJ14CFRC004
Client ID: CFR-11F
Date Coll.: 8/8/2014 **No. Jars:** 1

Sta. Name: Clark Fork at Gem Backroad near Racetrack - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Brachycentrus occidentalis	144	6.16%	Yes	Larva		2	CF
Glossosomatidae							
Protoptila sp.	13	0.56%	Yes	Larva		1	SC
Helicopsychidae							
Helicopsyche sp.	19	0.81%	Yes	Larva		3	SC
Helicopsyche sp.	10	0.43%	No	Pupa		3	SC
Hydropsychidae							
Arctopsyche sp.	1	0.04%	Yes	Larva		2	PR
Ceratopsyche cockerelli	630	26.96%	Yes	Larva		4	CF
Cheumatopsyche sp.	140	5.99%	Yes	Larva		5	CF
Hydropsyche occidentalis	8	0.34%	Yes	Larva		5	CF
Hydropsychidae	2	0.09%	No	Pupa		11	CF
Hydropsychidae	175	7.49%	No	Larva	Early Instar	11	CF
Hydroptilidae							
Hydroptila sp.	38	1.63%	Yes	Larva		6	PH
Leptoceridae							
Oecetis sp.	1	0.04%	Yes	Larva		8	PR
Limnephilidae							
Onocosmoecus unicolor	1	0.04%	Yes	Larva		11	SH
Coleoptera							
Elmidae							
Optioservus sp.	324	13.86%	No	Larva		5	SC
Optioservus sp.	92	3.94%	Yes	Adult		5	SC
Zaitzevia sp.	34	1.45%	No	Larva		4	CG
Zaitzevia sp.	10	0.43%	Yes	Adult		4	CG
Diptera							
Athericidae							
Atherix sp.	130	5.56%	Yes	Larva		4	PR
Simuliidae							
Simulium sp.	36	1.54%	Yes	Larva		6	CF
Simulium sp.	5	0.21%	No	Pupa		6	CF
Tipulidae							
Antocha monticola	44	1.88%	Yes	Larva		3	CG
Antocha monticola	1	0.04%	No	Pupa		3	CG
Hexatoma sp.	10	0.43%	Yes	Larva		2	PR

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC004

RAI No.: PBSJ14CFRC004
Client ID: CFR-11F
Date Coll.: 8/8/2014 **No. Jars:** 1

Sta. Name: Clark Fork at Gem Backroad near Racetrack - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Chironomidae							
Chironomidae							
Cryptochironomus sp.	2	0.09%	Yes	Larva		8	PR
Microtendipes sp.	13	0.56%	Yes	Larva		6	CF
Polypedilum sp.	1	0.04%	No	Pupa		6	SH
Polypedilum sp.	18	0.77%	Yes	Larva		6	SH
Pagastia sp.	6	0.26%	Yes	Larva		1	CG
Cricotopus sp.	3	0.13%	Yes	Larva		7	SH
Cricotopus sp.	2	0.09%	No	Pupa		7	SH
Cricotopus (Nostococladius) sp.	48	2.05%	Yes	Larva		6	SH
Orthocladius sp.	68	2.91%	Yes	Larva		6	CG
Orthocladius sp.	2	0.09%	No	Pupa		6	CG
Parametriocnemus sp.	1	0.04%	Yes	Larva		5	CG
Parametriocnemus sp.	1	0.04%	No	Pupa		5	CG
Tvetenia sp.	72	3.08%	Yes	Larva		5	CG
Tvetenia sp.	1	0.04%	No	Pupa		5	CG
Thienemannimyia Gr.	4	0.17%	Yes	Larva		11	PR
Sample Count	**2337**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC005

RAI No.: PBSJ14CFRC005 **Sta. Name:** Clark Fork at Turah - Composite
Client ID: CFR-116A
Date Coll.: 8/8/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Astacidae							
Pacifastacus leniusculus	1	0.04%	Yes	Unknown		6	SH
Oligochaeta							
Enchytraeidae							
Enchytraeidae	1	0.04%	Yes	Unknown		4	CG
Naididae							
Tubificinae	1	0.04%	Yes	Unknown		10	CG
Odonata							
Gomphidae							
Gomphidae	1	0.04%	Yes	Larva	Early Instar	11	PR
Ephemeroptera							
Baetidae							
Acentrella sp.	10	0.41%	No	Larva	Early Instar	4	CG
Acentrella insignificans	87	3.56%	Yes	Larva		4	CG
Baetis tricaudatus complex	41	1.68%	Yes	Larva		4	CG
Diphetor hageni	7	0.29%	Yes	Larva		5	CG
Iswaeon sp.	23	0.94%	Yes	Larva		6	UN
Ephemerellidae							
Attenella margarita	46	1.88%	Yes	Larva		3	CG
Drunella sp.	33	1.35%	Yes	Larva	Early Instar	11	SC
Ephemerella tibialis	25	1.02%	Yes	Larva		2	CG
Heptageniidae							
Ecdyonurus criddlei	13	0.53%	Yes	Larva		4	SH
Epeorus sp.	6	0.25%	Yes	Larva	Damaged	2	CG
Heptagenia sp.	2	0.08%	Yes	Larva		4	SC
Leptohyphidae							
Asioplax edmundsi	26	1.06%	Yes	Larva		11	CG
Tricorythodes sp.	107	4.37%	Yes	Larva		4	CG
Plecoptera							
Perlidae							
Hesperoperla pacifica	15	0.61%	Yes	Larva		11	PR
Perlodidae							
Isogenoides sp.	2	0.08%	Yes	Larva		11	PR
Skwala sp.	43	1.76%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcys sp.	14	0.57%	No	Larva	Early Instar	2	SH
Pteronarcys californica	23	0.94%	Yes	Larva		2	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC005

RAI No.: PBSJ14CFRC005 **Sta. Name:** Clark Fork at Turah - Composite
Client ID: CFR-116A
Date Coll.: 8/8/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Brachycentrus occidentalis	35	1.43%	Yes	Larva		2	CF
Hydropsychidae							
Arctopsyche sp.	57	2.33%	Yes	Larva		2	PR
Ceratopsyche cockerelli	82	3.35%	Yes	Larva		4	CF
Cheumatopsyche sp.	175	7.15%	Yes	Larva		5	CF
Hydropsyche occidentalis	223	9.12%	Yes	Larva		5	CF
Hydropsychidae	511	20.89%	No	Larva	Early Instar	11	CF
Hydroptilidae							
Hydroptila sp.	43	1.76%	Yes	Larva		6	PH
Leptoceridae							
Leptoceridae	1	0.04%	No	Pupa		11	CG
Oecetis sp.	35	1.43%	Yes	Larva		8	PR
Philopotamidae							
Wormaldia sp.	2	0.08%	Yes	Larva		0	CF
Psychomyiidae							
Psychomyiidae	1	0.04%	Yes	Larva	Damaged	2	CG
Lepidoptera							
Crambidae							
Petrophila sp.	13	0.53%	Yes	Larva		5	SC
Coleoptera							
Elmidae							
Optioservus sp.	121	4.95%	No	Larva		5	SC
Optioservus sp.	32	1.31%	Yes	Adult		5	SC
Zaitzevia sp.	36	1.47%	No	Larva		4	CG
Zaitzevia sp.	4	0.16%	Yes	Adult		4	CG
Diptera							
Athericidae							
Atherix sp.	62	2.53%	Yes	Larva		4	PR
Empididae							
Chelifera / Metachela sp.	12	0.49%	Yes	Larva		5	PR
Empididae	6	0.25%	No	Pupa		11	PR
Simuliidae							
Simulium sp.	16	0.65%	No	Pupa		6	CF
Simulium sp.	33	1.35%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	189	7.73%	Yes	Larva		3	CG
Antocha monticola	9	0.37%	No	Pupa		3	CG
Tipula sp.	1	0.04%	Yes	Larva		4	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC005

RAI No.: PBSJ14CFRC005 **Sta. Name:** Clark Fork at Turah - Composite
Client ID: CFR-116A
Date Coll.: 8/8/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Chironomidae							
Chironomidae							
Microtendipes sp.	8	0.33%	Yes	Larva		6	CF
Polypedilum sp.	5	0.20%	Yes	Larva		6	SH
Micropsectra sp.	1	0.04%	Yes	Larva		11	CG
Rheotanytarsus sp.	8	0.33%	Yes	Larva		11	CF
Sublettea coffmani	1	0.04%	Yes	Larva		11	UN
Tanytarsus sp.	1	0.04%	Yes	Larva		11	CF
Pagastia sp.	3	0.12%	Yes	Larva		1	CG
Potthastia Gaedii Gr.	6	0.25%	Yes	Larva		2	CG
Cardiocladius sp.	10	0.41%	Yes	Larva		5	PR
Cricotopus sp.	7	0.29%	No	Pupa		7	SH
Cricotopus sp.	64	2.62%	Yes	Larva		7	SH
Cricotopus (Nostococladius) sp.	13	0.53%	Yes	Larva		6	SH
Eukiefferiella sp.	49	2.00%	Yes	Larva		8	CG
Eukiefferiella sp.	2	0.08%	No	Pupa		8	CG
Orthocladiinae	1	0.04%	No	Pupa	Damaged	11	CG
Orthocladius sp.	1	0.04%	No	Pupa		6	CG
Orthocladius sp.	25	1.02%	Yes	Larva		6	CG
Thienemanniella sp.	1	0.04%	Yes	Larva		6	CG
Thienemanniella sp.	2	0.08%	No	Pupa		6	CG
Tvetenia sp.	11	0.45%	Yes	Larva		5	CG
Thienemannimyia Gr.	1	0.04%	Yes	Larva		11	PR
Sample Count	**2446**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC006

RAI No.: PBSJ14CFRC006
Client ID: MCWC-MWB
Date Coll.: 8/7/2014 **No. Jars:** 1

Sta. Name: Mill-Willow Creeks above Mill-Willow Bypass at Frontage Rd. - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	2	0.06%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Lymnaeidae							
Galba sp.	2	0.06%	Yes	Unknown		6	SC
Planorbidae							
Gyraulus sp.	7	0.21%	Yes	Unknown		8	SC
Sphaeriidae							
Pisidium sp.	2	0.06%	Yes	Unknown		8	CF
Sphaeriidae	1	0.03%	Yes	Immature		8	CF
Oligochaeta							
Naididae							
Naidinae	15	0.45%	Yes	Unknown		8	CG
Ephemeroptera							
Baetidae							
Acentrella sp.	12	0.36%	No	Larva	Damaged	4	CG
Acentrella insignificans	30	0.90%	Yes	Larva		4	CG
Baetidae	2	0.06%	No	Larva	Damaged	11	CG
Baetis tricaudatus complex	14	0.42%	Yes	Larva		4	CG
Diphetor hageni	10	0.30%	Yes	Larva		5	CG
Ephemerellidae							
Attenella margarita	5	0.15%	Yes	Larva		3	CG
Drunella sp.	8	0.24%	Yes	Larva	Early Instar	11	SC
Drunella grandis	8	0.24%	Yes	Larva		2	PR
Ephemerella tibialis	8	0.24%	Yes	Larva		2	CG
Ephemerellidae	3	0.09%	No	Larva	Damaged	11	CG
Heptageniidae							
Ecdyonurus criddlei	34	1.02%	Yes	Larva		4	SH
Epeorus Albertae Gr.	1	0.03%	Yes	Larva		2	SC
Leptohyphidae							
Tricorythodes sp.	30	0.90%	Yes	Larva		4	CG
Leptophlebiidae							
Paraleptophlebia sp.	1	0.03%	Yes	Larva		1	CG
Plecoptera							
Chloroperlidae							
Chloroperlidae	2	0.06%	No	Larva	Early Instar	1	PR
Sweltsa sp.	1	0.03%	Yes	Larva		1	PR
Perlidae							
Hesperoperla pacifica	5	0.15%	Yes	Larva		11	PR
Perlodidae							
Skwala sp.	28	0.84%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcella sp.	2	0.06%	Yes	Larva		3	SH
Pteronarcys sp.	1	0.03%	Yes	Larva	Early Instar	2	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC006

RAI No.: PBSJ14CFRC006
Client ID: MCWC-MWB
Date Coll.: 8/7/2014 **No. Jars:** 1

Sta. Name: Mill-Willow Creeks above Mill-Willow Bypass at Frontage Rd. - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Brachycentridae	1	0.03%	No	Pupa		11	CF
Brachycentrus americanus	2	0.06%	Yes	Larva		1	CF
Brachycentrus occidentalis	1264	37.80%	Yes	Larva		2	CF
Glossosomatidae							
Agapetus sp.	30	0.90%	Yes	Larva		0	SC
Glossosoma sp.	23	0.69%	Yes	Larva		0	SC
Glossosomatidae	79	2.36%	No	Pupa		11	SC
Helicopsychidae							
Helicopsyche sp.	16	0.48%	Yes	Larva		3	SC
Helicopsyche sp.	2	0.06%	No	Pupa		3	SC
Hydropsychidae							
Arctopsyche sp.	87	2.60%	Yes	Larva		2	PR
Ceratopsyche cockerelli	4	0.12%	Yes	Larva		4	CF
Cheumatopsyche sp.	4	0.12%	Yes	Larva		5	CF
Hydropsychidae	90	2.69%	No	Larva	Early Instar	11	CF
Hydropsychidae	1	0.03%	No	Pupa		11	CF
Hydroptilidae							
Hydroptila sp.	9	0.27%	Yes	Larva		6	PH
Lepidostomatidae							
Lepidostoma sp.	25	0.75%	Yes	Larva		1	SH
Leptoceridae							
Leptoceridae	2	0.06%	No	Pupa		11	CG
Oecetis sp.	7	0.21%	Yes	Larva		8	PR
Rhyacophilidae							
Rhyacophila sp.	3	0.09%	No	Pupa		11	PR
Rhyacophila sp.	4	0.12%	Yes	Larva	Early Instar	11	PR
Uenoidae							
Neophylax rickeri	6	0.18%	Yes	Larva		3	SC
Lepidoptera							
Crambidae							
Petrophila sp.	1	0.03%	Yes	Larva		5	SC
Coleoptera							
Elmidae							
Elmidae	51	1.53%	No	Adult	Damaged	11	CG
Optioservus sp.	243	7.27%	No	Larva		5	SC
Optioservus sp.	173	5.17%	Yes	Adult		5	SC
Zaitzevia sp.	12	0.36%	Yes	Adult		4	CG
Zaitzevia sp.	31	0.93%	No	Larva		4	CG

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC006

RAI No.: PBSJ14CFRC006
Client ID: MCWC-MWB
Date Coll.: 8/7/2014 **No. Jars:** 1

Sta. Name: Mill-Willow Creeks above Mill-Willow Bypass at Frontage Rd. - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Empididae							
Empididae	5	0.15%	Yes	Pupa		11	PR
Simuliidae							
Simulium sp.	9	0.27%	No	Pupa		6	CF
Simulium sp.	14	0.42%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	18	0.54%	Yes	Larva		3	CG
Antocha monticola	8	0.24%	No	Pupa		3	CG
Hexatoma sp.	32	0.96%	Yes	Larva		2	PR
Chironomidae							
Chironomidae							
Microtendipes sp.	1	0.03%	Yes	Larva		6	CF
Polypedilum sp.	4	0.12%	Yes	Larva		6	SH
Micropsectra sp.	22	0.66%	Yes	Larva		11	CG
Rheotanytarsus sp.	223	6.67%	Yes	Larva		11	CF
Rheotanytarsus sp.	11	0.33%	No	Pupa		11	CF
Tanytarsini	1	0.03%	No	Pupa	Damaged	11	CF
Pagastia sp.	77	2.30%	Yes	Larva		1	CG
Brillia sp.	1	0.03%	Yes	Larva		4	SH
Cricotopus sp.	4	0.12%	No	Pupa		7	SH
Cricotopus sp.	12	0.36%	Yes	Larva		7	SH
Cricotopus (Nostococladius) sp.	204	6.10%	Yes	Larva		6	SH
Eukiefferiella sp.	84	2.51%	Yes	Larva		8	CG
Eukiefferiella sp.	4	0.12%	No	Pupa		8	CG
Nanocladius sp.	1	0.03%	Yes	Larva		3	CG
Orthocladius sp.	64	1.91%	Yes	Larva		6	CG
Parametriocnemus sp.	1	0.03%	No	Pupa		5	CG
Parametriocnemus sp.	10	0.30%	Yes	Larva		5	CG
Thienemanniella sp.	7	0.21%	Yes	Larva		6	CG
Tvetenia sp.	113	3.38%	Yes	Larva		5	CG
Tvetenia sp.	2	0.06%	No	Pupa		5	CG
Conchapelopia sp.	1	0.03%	Yes	Pupa		11	PR
Nilotanypus sp.	1	0.03%	Yes	Larva		11	PR
Pentaneura sp.	2	0.06%	Yes	Larva		6	PR
Tanypodinae	1	0.03%	No	Pupa	Damaged	11	PR
Thienemannimyia Gr.	3	0.09%	No	Larva		11	PR
Sample Count	**3344**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC007

RAI No.: PBSJ14CFRC007 **Sta. Name:** Warm Springs Creek near mouth - Composite
Client ID: WSC-SBC
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Planorbidae							
Gyraulus sp.	1	0.13%	Yes	Unknown		8	SC
Sphaeriidae							
Pisidium sp.	5	0.67%	Yes	Unknown		8	CF
Oligochaeta							
Naididae							
Naidinae	1	0.13%	Yes	Unknown		8	CG
Ephemeroptera							
Baetidae							
Acentrella insignificans	32	4.28%	Yes	Larva		4	CG
Baetis tricaudatus complex	85	11.38%	Yes	Larva		4	CG
Diphetor hageni	2	0.27%	Yes	Larva		5	CG
Ephemerellidae							
Drunella grandis	2	0.27%	Yes	Larva		2	PR
Ephemerellidae	1	0.13%	No	Larva	Damaged	11	CG
Heptageniidae							
Epeorus sp.	1	0.13%	Yes	Larva	Damaged	2	CG
Plecoptera							
Perlidae							
Hesperoperla pacifica	24	3.21%	Yes	Larva		11	PR
Perlodidae							
Skwala sp.	1	0.13%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcella sp.	1	0.13%	Yes	Larva		3	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC007

RAI No.: PBSJ14CFRC007 **Sta. Name:** Warm Springs Creek near mouth - Composite
Client ID: WSC-SBC
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Trichoptera	1	0.13%	No	Pupa	Damaged	11	UN
Brachycentridae							
Brachycentridae	2	0.27%	No	Pupa		11	CF
Brachycentrus americanus	15	2.01%	Yes	Larva		1	CF
Brachycentrus occidentalis	15	2.01%	Yes	Larva		2	CF
Micrasema sp.	1	0.13%	Yes	Larva		1	SH
Glossosomatidae							
Agapetus sp.	6	0.80%	Yes	Larva		0	SC
Glossosoma sp.	9	1.20%	Yes	Larva		0	SC
Glossosomatidae	2	0.27%	No	Pupa		11	SC
Hydropsychidae							
Arctopsyche sp.	113	15.13%	Yes	Larva		2	PR
Hydroptilidae							
Hydroptilidae	2	0.27%	No	Pupa		11	PH
Ochrotrichia sp.	11	1.47%	Yes	Larva		4	PH
Lepidostomatidae							
Lepidostoma sp.	2	0.27%	Yes	Larva		1	SH
Rhyacophilidae							
Rhyacophila sp.	1	0.13%	No	Pupa		11	PR
Rhyacophila sp.	4	0.54%	Yes	Pupa		11	PR
Rhyacophila Angelita Gr.	1	0.13%	Yes	Larva		0	PR
Rhyacophila Brunnea/Vemna Gr.	2	0.27%	Yes	Larva		2	PR
Uenoidae							
Neophylax rickeri	1	0.13%	Yes	Larva		3	SC
Coleoptera							
Elmidae							
Cleptelmis addenda	10	1.34%	Yes	Adult		4	CG
Cleptelmis addenda	2	0.27%	No	Larva		4	CG
Elmidae	27	3.61%	No	Adult	Damaged	11	CG
Narpus concolor	3	0.40%	Yes	Larva		2	CG
Optioservus sp.	48	6.43%	Yes	Adult		5	SC
Optioservus sp.	166	22.22%	No	Larva		5	SC

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC007

RAI No.: PBSJ14CFRC007 **Sta. Name:** Warm Springs Creek near mouth - Composite
Client ID: WSC-SBC
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Deuterophlebiidae							
Deuterophlebia sp.	2	0.27%	Yes	Pupa		11	SC
Empididae							
Chelifera / Metachela sp.	16	2.14%	Yes	Larva		5	PR
Empididae	7	0.94%	No	Pupa		11	PR
Empididae	2	0.27%	Yes	Pupa		11	PR
Simuliidae							
Simulium sp.	10	1.34%	No	Pupa		6	CF
Simulium sp.	8	1.07%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	2	0.27%	Yes	Larva		3	CG
Antocha monticola	1	0.13%	No	Pupa		3	CG
Hexatoma sp.	8	1.07%	Yes	Larva		2	PR
Chironomidae							
Chironomidae							
Rheotanytarsus sp.	2	0.27%	Yes	Larva		11	CF
Pagastia sp.	21	2.81%	Yes	Larva		1	CG
Cardiocladius sp.	1	0.13%	Yes	Larva		5	PR
Cricotopus sp.	1	0.13%	Yes	Larva		7	SH
Cricotopus sp.	1	0.13%	No	Pupa		7	SH
Cricotopus (Nostococladius) sp.	4	0.54%	Yes	Larva		6	SH
Eukiefferiella sp.	4	0.54%	No	Pupa		8	CG
Eukiefferiella sp.	38	5.09%	Yes	Larva		8	CG
Orthocladius sp.	6	0.80%	Yes	Larva		6	CG
Rheocricotopus sp.	1	0.13%	Yes	Larva		4	CG
Tvetenia sp.	1	0.13%	No	Pupa		5	CG
Tvetenia sp.	11	1.47%	Yes	Larva		5	CG
Sample Count	**747**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC008

RAI No.: PBSJ14CFRC008 **Sta. Name:** Lost Creek at Frontage Road - Composite
Client ID: LC-7.5
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	14	0.25%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Amphipoda	4	0.07%	No	Immature		11	CG
Erpobdellidae							
Erpobdellidae	5	0.09%	Yes	Unknown		8	PR
Gammaridae							
Gammarus sp.	247	4.34%	Yes	Unknown		4	SH
Glossiphoniidae							
Glossiphonia complanata	25	0.44%	Yes	Unknown		9	PR
Helobdella stagnalis	116	2.04%	Yes	Unknown		10	PR
Hyalellidae							
Hyalella sp.	1334	23.47%	Yes	Unknown		8	CG
Physidae							
Physella sp.	48	0.84%	Yes	Unknown		8	SC
Planorbidae							
Gyraulus sp.	39	0.69%	Yes	Unknown		8	SC
Sphaeriidae							
Pisidium sp.	192	3.38%	Yes	Unknown		8	CF
Oligochaeta							
Enchytraeidae							
Enchytraeidae	1	0.02%	Yes	Unknown		4	CG
Naididae							
Naidinae	5	0.09%	Yes	Unknown		8	CG
Rhyacodrilinae	4	0.07%	Yes	Unknown		10	CG
Tubificinae	17	0.30%	Yes	Unknown		10	CG
Odonata							
Coenagrionidae							
Coenagrionidae	1	0.02%	Yes	Larva	Damaged	8	PR
Ephemeroptera							
Baetidae							
Acentrella sp.	1	0.02%	Yes	Larva	Damaged	4	CG
Baetidae	1	0.02%	No	Larva	Damaged	11	CG
Baetis tricaudatus complex	89	1.57%	Yes	Larva		4	CG
Diphetor hageni	65	1.14%	Yes	Larva		5	CG
Iswaeon sp.	16	0.28%	Yes	Larva		6	UN
Ephemerellidae							
Ephemerella sp.	1	0.02%	Yes	Larva	Damaged	11	SC
Leptohyphidae							
Tricorythodes sp.	45	0.79%	Yes	Larva		4	CG
Leptophlebiidae							
Paraleptophlebia sp.	3	0.05%	Yes	Larva		1	CG
Plecoptera							
Perlodidae							
Skwala sp.	56	0.99%	Yes	Larva		3	PR

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC008

RAI No.: PBSJ14CFRC008 **Sta. Name:** Lost Creek at Frontage Road - Composite
Client ID: LC-7.5
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Megaloptera							
Sialidae							
Sialis sp.	1	0.02%	Yes	Larva		4	PR
Trichoptera							
Trichoptera	3	0.05%	No	Pupa	Damaged	11	UN
Brachycentridae							
Brachycentrus occidentalis	608	10.69%	Yes	Larva		2	CF
Glossosomatidae							
Glossosoma sp.	4	0.07%	Yes	Larva		0	SC
Glossosomatidae	4	0.07%	No	Pupa		11	SC
Helicopsychidae							
Helicopsyche sp.	548	9.64%	Yes	Larva		3	SC
Helicopsyche sp.	2	0.04%	No	Pupa		3	SC
Hydropsychidae							
Ceratopsyche cockerelli	3	0.05%	Yes	Larva		4	CF
Ceratopsyche slossonae	241	4.24%	Yes	Larva		4	CF
Cheumatopsyche sp.	32	0.56%	Yes	Larva		5	CF
Hydropsyche sp.	4	0.07%	Yes	Larva	Early Instar	5	CF
Hydropsychidae	12	0.21%	No	Pupa		11	CF
Hydropsychidae	125	2.20%	No	Larva	Early Instar	11	CF
Hydroptilidae							
Hydroptila sp.	138	2.43%	Yes	Larva		6	PH
Hydroptilidae	298	5.24%	No	Pupa		11	PH
Lepidostomatidae							
Lepidostoma sp.	26	0.46%	Yes	Larva		1	SH
Leptoceridae							
Oecetis sp.	229	4.03%	Yes	Larva		8	PR
Limnephilidae							
Onocosmoecus unicolor	3	0.05%	Yes	Larva		11	SH
Philopotamidae							
Philopotamidae	2	0.04%	No	Pupa		11	CF
Wormaldia sp.	2	0.04%	Yes	Larva		0	CF
Coleoptera							
Dytiscidae							
Laccophilus sp.	1	0.02%	Yes	Adult		11	PR
Oreodytes sp.	7	0.12%	Yes	Adult		11	PR
Elmidae							
Cleptelmis addenda	160	2.81%	No	Larva		4	CG
Cleptelmis addenda	51	0.90%	Yes	Adult		4	CG
Elmidae	21	0.37%	No	Larva	Early Instar	11	CG
Elmidae	113	1.99%	No	Adult	Damaged	11	CG
Optioservus sp.	178	3.13%	No	Larva		5	SC
Optioservus sp.	258	4.54%	Yes	Adult		5	SC
Zaitzevia sp.	30	0.53%	No	Larva		4	CG
Zaitzevia sp.	10	0.18%	Yes	Adult		4	CG

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC008

RAI No.: PBSJ14CFRC008 **Sta. Name:** Lost Creek at Frontage Road - Composite
Client ID: LC-7.5
Date Coll.: 8/7/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Psychodidae							
Pericoma / Telmatoscopus	15	0.26%	Yes	Larva		4	CG
Simuliidae							
Simulium sp.	1	0.02%	No	Pupa		6	CF
Simulium sp.	13	0.23%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	13	0.23%	Yes	Larva		3	CG
Dicranota sp.	51	0.90%	Yes	Larva		3	PR
Tipula sp.	3	0.05%	Yes	Larva		4	SH
Chironomidae							
Chironomidae							
Microtendipes sp.	2	0.04%	Yes	Larva		6	CF
Polypedilum sp.	1	0.02%	Yes	Pupa		6	SH
Micropsectra sp.	4	0.07%	Yes	Larva		11	CG
Rheotanytarsus sp.	9	0.16%	Yes	Larva		11	CF
Pagastia sp.	72	1.27%	Yes	Larva		1	CG
Corynoneura sp.	1	0.02%	Yes	Pupa		7	CG
Cricotopus sp.	1	0.02%	Yes	Larva		7	SH
Eukiefferiella sp.	6	0.11%	Yes	Larva		8	CG
Tvetenia sp.	5	0.09%	Yes	Larva		5	CG
Pentaneura sp.	29	0.51%	Yes	Larva		6	PR
Tanypodinae	1	0.02%	Yes	Pupa	Damaged	11	PR
Tanypodinae	3	0.05%	No	Pupa	Damaged	11	PR
Thienemannimyia Gr.	12	0.21%	Yes	Larva		11	PR
Sample Count	**5685**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC009

RAI No.: PBSJ14CFRC009 **Sta. Name:** Racetrack Creek at Frontage Road - Composite
Client ID: RTC-1.5
Date Coll.: 8/8/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	1	0.08%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Hyalellidae							
Hyalella sp.	1	0.08%	Yes	Unknown		8	CG
Sphaeriidae							
Pisidium sp.	2	0.17%	Yes	Unknown		8	CF
Oligochaeta							
Enchytraeidae							
Enchytraeidae	72	6.09%	Yes	Unknown		4	CG
Haplotaxidae							
Haplotaxidae	10	0.85%	Yes	Unknown		11	PR
Naididae							
Naidinae	5	0.42%	Yes	Unknown		8	CG
Tubificinae	6	0.51%	Yes	Unknown		10	CG
Ephemeroptera							
Ameletidae							
Ameletus sp.	4	0.34%	Yes	Larva		0	SC
Baetidae							
Anafroptilum sp.	1	0.08%	Yes	Larva		2	UN
Baetis tricaudatus complex	254	21.49%	Yes	Larva		4	CG
Diphetor hageni	1	0.08%	Yes	Larva		5	CG
Ephemerellidae							
Attenella margarita	1	0.08%	Yes	Larva		3	CG
Drunella coloradensis	2	0.17%	Yes	Larva		0	SC
Drunella grandis	37	3.13%	Yes	Larva		2	PR
Ephemerella excrucians	1	0.08%	Yes	Larva		4	SH
Ephemerella tibialis	67	5.67%	Yes	Larva		2	CG
Ephemerellidae	44	3.72%	No	Larva	Damaged	11	CG
Heptageniidae							
Ecdyonurus criddlei	17	1.44%	Yes	Larva		4	SH
Rhithrogena sp.	2	0.17%	Yes	Larva		0	SC
Leptophlebiidae							
Paraleptophlebia sp.	12	1.02%	Yes	Larva		1	CG
Plecoptera							
Chloroperlidae							
Chloroperlidae	1	0.08%	No	Larva	Early Instar	1	PR
Paraperla sp.	1	0.08%	Yes	Larva		1	CG
Suwallia sp.	7	0.59%	Yes	Larva		1	PR
Nemouridae							
Malenka sp.	8	0.68%	Yes	Larva		2	SH
Perlodidae							
Perlodidae	7	0.59%	No	Larva	Damaged	11	PR
Skwala sp.	38	3.21%	Yes	Larva		3	PR

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC009

RAI No.: PBSJ14CFRC009 **Sta. Name:** Racetrack Creek at Frontage Road - Composite
Client ID: RTC-1.5
Date Coll.: 8/8/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Heteroptera							
Corixidae							
Sigara sp.	1	0.08%	Yes	Adult		11	PH
Trichoptera							
Brachycentridae							
Brachycentrus americanus	1	0.08%	Yes	Larva		1	CF
Glossosomatidae							
Agapetus sp.	7	0.59%	Yes	Larva		0	SC
Helicopsychidae							
Helicopsyche sp.	1	0.08%	No	Pupa		3	SC
Helicopsyche sp.	2	0.17%	Yes	Larva		3	SC
Hydroptilidae							
Hydroptila sp.	1	0.08%	Yes	Larva		6	PH
Hydroptilidae	1	0.08%	No	Larva	Early Instar	11	PH
Ochrotrichia sp.	4	0.34%	Yes	Larva		4	PH
Lepidostomatidae							
Lepidostoma sp.	3	0.25%	Yes	Larva		1	SH
Lepidostoma sp.	1	0.08%	No	Pupa		1	SH
Rhyacophilidae							
Rhyacophila Brunnea/Vemna Gr.	1	0.08%	Yes	Larva		2	PR
Uenoidae							
Neophylax rickeri	21	1.78%	Yes	Larva		3	SC
Uenoidae	1	0.08%	No	Pupa		11	SC
Coleoptera							
Dytiscidae							
Liodessus sp.	1	0.08%	Yes	Adult		11	PR
Oreodytes sp.	2	0.17%	Yes	Adult		11	PR
Elmidae							
Optioservus sp.	15	1.27%	No	Larva		5	SC
Optioservus sp.	24	2.03%	Yes	Adult		5	SC
Zaitzevia sp.	3	0.25%	Yes	Adult		4	CG
Haliplidae							
Haliplidae	2	0.17%	Yes	Larva	Early Instar	11	SH
Diptera							
Ceratopogonidae							
Ceratopogoninae	1	0.08%	Yes	Larva		6	PR
Simuliidae							
Simulium sp.	1	0.08%	No	Pupa		6	CF
Simulium sp.	1	0.08%	Yes	Larva		6	CF
Tipulidae							
Dicranota sp.	5	0.42%	Yes	Larva		3	PR
Hexatoma sp.	3	0.25%	Yes	Larva		2	PR
Tipula sp.	3	0.25%	Yes	Larva		4	SH
Tipulidae	3	0.25%	No	Larva	Damaged	11	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC009

RAI No.: PBSJ14CFRC009 **Sta. Name:** Racetrack Creek at Frontage Road - Composite
Client ID: RTC-1.5
Date Coll.: 8/8/2014 **No. Jars:** 1 **STORET ID:**

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Chironomidae							
Chironomidae							
Phaenopsectra sp.	3	0.25%	Yes	Larva		7	SC
Micropsectra sp.	46	3.89%	Yes	Larva		11	CG
Tanytarsini	2	0.17%	No	Larva	Early Instar	11	CF
Tanytarsus sp.	12	1.02%	Yes	Larva		11	CF
Tanytarsus sp.	2	0.17%	No	Pupa		11	CF
Pagastia sp.	285	24.11%	Yes	Larva		1	CG
Corynoneura sp.	1	0.08%	Yes	Pupa		7	CG
Cricotopus sp.	44	3.72%	Yes	Larva		7	SH
Cricotopus (Nostococladius) sp.	1	0.08%	Yes	Larva		6	SH
Diplocladius cultriger	1	0.08%	Yes	Larva		11	CG
Eukiefferiella sp.	6	0.51%	Yes	Larva		8	CG
Orthocladiinae	1	0.08%	No	Pupa	Damaged	11	CG
Orthocladiinae	36	3.05%	No	Larva	Early Instar	11	CG
Orthocladius sp.	10	0.85%	Yes	Larva		6	CG
Tvetenia sp.	17	1.44%	Yes	Larva		5	CG
Thienemannimyia Gr.	4	0.34%	Yes	Larva		11	PR
Sample Count	**1182**						

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC010

RAI No.: PBSJ14CFRC010
Client ID: LBR-CFR-1.5
Date Coll.: 8/8/2014 **No. Jars:** 1

Sta. Name: Little Blackfoot River at Beck Hill Rd. bridge - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Other Non-Insect							
Trepaxonemata	1	0.06%	Yes	Unknown		5	PR
Nemata	0	0.00%	Yes	Unknown		5	UN
Physidae							
Physella sp.	3	0.17%	Yes	Unknown		8	SC
Oligochaeta							
Enchytraeidae							
Enchytraeidae	4	0.23%	Yes	Unknown		4	CG
Naididae							
Naidinae	22	1.25%	Yes	Unknown		8	CG
Ephemeroptera							
Baetidae							
Acentrella insignificans	17	0.97%	Yes	Larva		4	CG
Baetis tricaudatus complex	86	4.88%	Yes	Larva		4	CG
Ephemerellidae							
Attenella margarita	57	3.24%	Yes	Larva		3	CG
Drunella grandis	85	4.83%	Yes	Larva		2	PR
Ephemerella tibialis	12	0.68%	Yes	Larva		2	CG
Ephemerellidae	29	1.65%	No	Larva	Damaged	11	CG
Timpanoga hecuba	1	0.06%	Yes	Larva		2	CG
Heptageniidae							
Ecdyonurus criddlei	50	2.84%	Yes	Larva		4	SH
Leptohyphidae							
Tricorythodes sp.	27	1.53%	Yes	Larva		4	CG
Leptophlebiidae							
Paraleptophlebia sp.	1	0.06%	No	Larva		1	CG
Paraleptophlebia bicornuta	3	0.17%	Yes	Larva		2	CG
Plecoptera							
Chloroperlidae							
Sweltsa sp.	22	1.25%	Yes	Larva		1	PR
Perlidae							
Claassenia sabulosa	2	0.11%	Yes	Larva		11	PR
Hesperoperla pacifica	8	0.45%	Yes	Larva		11	PR
Perlodidae							
Perlodidae	2	0.11%	No	Larva	Damaged	11	PR
Skwala sp.	20	1.14%	Yes	Larva		3	PR
Pteronarcyidae							
Pteronarcella sp.	5	0.28%	Yes	Larva		3	SH
Pteronarcys californica	1	0.06%	Yes	Larva		2	SH

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC010

RAI No.: PBSJ14CFRC010
Client ID: LBR-CFR-1.5
Date Coll.: 8/8/2014 **No. Jars:** 1

Sta. Name: Little Blackfoot River at Beck Hill Rd. bridge - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Trichoptera							
Brachycentridae							
Amiocentrus aspilus	1	0.06%	Yes	Larva		3	CG
Brachycentridae	4	0.23%	No	Pupa		11	CF
Brachycentrus occidentalis	44	2.50%	Yes	Larva		2	CF
Glossosomatidae							
Glossosoma sp.	33	1.87%	Yes	Larva		0	SC
Glossosomatidae	1	0.06%	No	Pupa		11	SC
Protoptila sp.	1	0.06%	Yes	Larva		1	SC
Helicopsychidae							
Helicopsyche sp.	1	0.06%	Yes	Larva		3	SC
Hydropsychidae							
Arctopsyche sp.	54	3.07%	Yes	Larva		2	PR
Ceratopsyche sp.	11	0.62%	Yes	Larva	Early Instar	5	CF
Hydropsyche sp.	57	3.24%	Yes	Larva	Early Instar	5	CF
Hydropsychidae	111	6.30%	No	Larva	Early Instar	11	CF
Hydropsychidae	1	0.06%	No	Pupa		11	CF
Hydroptilidae							
Hydroptilidae	3	0.17%	No	Pupa		11	PH
Ochrotrichia sp.	2	0.11%	Yes	Larva		4	PH
Lepidostomatidae							
Lepidostoma sp.	5	0.28%	Yes	Larva		1	SH
Rhyacophilidae							
Rhyacophila sp.	2	0.11%	No	Pupa		11	PR
Rhyacophila sp.	5	0.28%	Yes	Larva	Early Instar	11	PR
Uenoidae							
Neophylax rickeri	2	0.11%	Yes	Larva		3	SC
Coleoptera							
Elmidae							
Elmidae	11	0.62%	No	Adult	Damaged	11	CG
Narpus concolor	1	0.06%	Yes	Larva		2	CG
Optioservus sp.	11	0.62%	Yes	Adult		5	SC
Optioservus sp.	57	3.24%	No	Larva		5	SC
Zaitzevia sp.	99	5.62%	No	Larva		4	CG
Zaitzevia sp.	10	0.57%	Yes	Adult		4	CG

Taxa Listing

Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC010

RAI No.: PBSJ14CFRC010
Client ID: LBR-CFR-1.5
Date Coll.: 8/8/2014 **No. Jars:** 1

Sta. Name: Little Blackfoot River at Beck Hill Rd. bridge - Composite
STORET ID:

Taxonomic Name	Count	PRA	Unique	Stage	Qualifier	BI	Function
Diptera							
Athericidae							
Atherix sp.	19	1.08%	Yes	Larva		4	PR
Ceratopogonidae							
Ceratopogoninae	6	0.34%	Yes	Larva		6	PR
Empididae							
Empididae	1	0.06%	Yes	Pupa		11	PR
Simuliidae							
Simulium sp.	6	0.34%	No	Pupa		6	CF
Simulium sp.	11	0.62%	Yes	Larva		6	CF
Tipulidae							
Antocha monticola	39	2.21%	Yes	Larva		3	CG
Cryptolabis sp.	3	0.17%	Yes	Larva		11	SH
Hexatoma sp.	14	0.80%	Yes	Larva		2	PR
Tipulidae	1	0.06%	No	Pupa		11	SH
Chironomidae							
Chironomidae							
Microtendipes sp.	3	0.17%	Yes	Larva		6	CF
Polypedilum sp.	1	0.06%	No	Pupa		6	SH
Polypedilum sp.	37	2.10%	Yes	Larva		6	SH
Micropsectra sp.	66	3.75%	Yes	Larva		11	CG
Rheotanytarsus sp.	11	0.62%	Yes	Larva		11	CF
Tanytarsus sp.	5	0.28%	Yes	Larva		11	CF
Pagastia sp.	7	0.40%	Yes	Larva		1	CG
Potthastia Gaedii Gr.	3	0.17%	Yes	Larva		2	CG
Brillia sp.	1	0.06%	Yes	Larva		4	SH
Cardiocladius sp.	2	0.11%	Yes	Larva		5	PR
Corynoneura sp.	1	0.06%	Yes	Larva		7	CG
Cricotopus sp.	9	0.51%	No	Pupa		7	SH
Cricotopus sp.	1	0.06%	Yes	Larva		7	SH
Cricotopus (Nostococladius) sp.	173	9.82%	Yes	Larva		6	SH
Eukiefferiella sp.	186	10.56%	Yes	Larva		8	CG
Orthocladius sp.	36	2.04%	Yes	Larva		6	CG
Parametriocnemus sp.	2	0.11%	Yes	Larva		5	CG
Rheocricotopus sp.	1	0.06%	Yes	Larva		4	CG
Thienemanniella sp.	1	0.06%	Yes	Larva		6	CG
Tvetenia sp.	126	7.16%	Yes	Larva		5	CG
Tvetenia sp.	1	0.06%	No	Pupa		5	CG
Pentaneura sp.	1	0.06%	Yes	Larva		6	PR
Tanypodinae	1	0.06%	Yes	Pupa	Damaged	11	PR
Thienemannimyia Gr.	1	0.06%	Yes	Larva		11	PR
Sample Count	**1761**						

Metrics Report

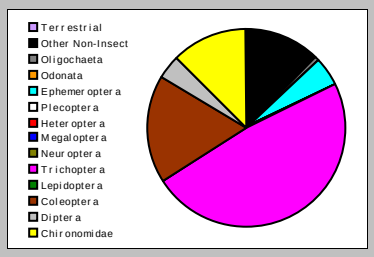
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC001
Sta. Name: Silver Bow Creek at Warm Springs - Composite
Client ID: SS-25
STORET ID
Coll. Date: 8/7/2014
Latitude: 46.18123 **Longitude:** -112.77917

Abundance Measures

Sample Count: 7826
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	8	981	12.54%
Oligochaeta	3	42	0.54%
Odonata	1	1	0.01%
Ephemeroptera	5	380	4.86%
Plecoptera	2	14	0.18%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	13	3709	47.39%
Lepidoptera	1	16	0.20%
Coleoptera	3	1406	17.97%
Diptera	6	297	3.80%
Chironomidae	19	980	12.52%

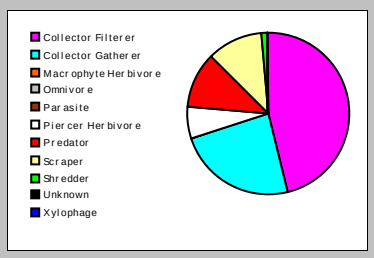


Dominant Taxa

Category	A	PRA
Cheumatopsyche	1905	24.34%
Optioservus	810	10.35%
Trepaxonemata	780	9.97%
Zaitzevia	579	7.40%
Hydropsychidae	554	7.08%
Tvetenia	497	6.35%
Hydroptilidae	369	4.72%
Hydropsyche occidentalis	306	3.91%
Simulium	275	3.51%
Brachycentrus occidentalis	250	3.19%
Tricorythodes	212	2.71%
Baetis tricaudatus complex	162	2.07%
Hydroptila	145	1.85%
Parametriocnemus	135	1.73%
Eukiefferiella	114	1.46%

Functional Composition

Category	R	A	PRA
Predator	11	886	11.32%
Parasite			
Collector Gatherer	24	1876	23.97%
Collector Filterer	8	3579	45.73%
Macrophyte Herbivore			
Piercer Herbivore	2	515	6.58%
Xylophage			
Scraper	8	858	10.96%
Shredder	7	109	1.39%
Omnivore			
Unknown	1	3	0.04%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	61
E Richness	5
P Richness	2
P Percent	0.18%
T Richness	13
EPT Richness	20
EPT Percent	52.43%
All Non-Insect Abundance	1023
Diptera and Non-Insect Percent	29.39%
All Non-Insect Richness	11
All Non-Insect Percent	13.07%
Oligochaeta+Hirudinea Percent	0.55%
Baetidae/Ephemeroptera	0.437
E (no Baetids) Percent	2.73%
Hydropsychidae/Trichoptera	0.765
T (no Hydropsychids) Percent	11.16%
Diversity	
Shannon H (loge)	2.478
Shannon H (log10)	
Shannon H (log2)	3.575
Margalef D	6.965
Simpson D	0.160
Evenness	0.055
Function	
Predator Richness	11
Predator Percent	11.32%
Filterer Richness	8
Filterer Percent	45.73%
Collector Percent	69.70%
Scraper Percent	10.96%
Scraper+Shredder Percent	12.36%
Scraper/Filterer	0.240
Scraper/Scraper+Filterer	0.193
Habit	
Burrower Richness	5
Burrower Percent	0.37%
Swimmer Richness	2
Swimmer Percent	0.03%
Clinger Richness	20
Clinger Percent	65.74%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	0.28%
Hemoglobin Bearer Richness	6
Hemoglobin Bearer Percent	2.19%
Air Breather Richness	2
Air Breather Percent	0.10%
Voltinism	
Univoltine Richness	26
Semivoltine Richness	5
Multivoltine Percent	29.12%
Tolerance	
Sediment Tolerant Richness	5
Sediment Tolerant Percent	2.85%
Sediment Sensitive Richness	2
Sediment Sensitive Percent	0.38%
Metals Tolerance Index	4.585
Pollution Sensitive Richness	2
Pollution Tolerant Percent	48.34%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.992
Intolerant Percent	3.65%
Supertolerant Percent	5.41%
CTQa	104.000

Metrics Report

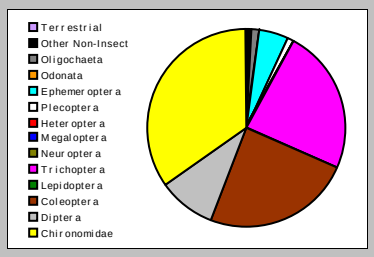
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC002
Sta. Name: Clark Fork near Galen (Perkins Ln. bridge) - Composite
Client ID: CFR-03A
STORET ID
Coll. Date: 8/7/2014
Latitude: 46.20877 **Longitude:** -112.7674

Abundance Measures

Sample Count: 6492
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	4	48	0.74%
Oligochaeta	3	91	1.40%
Odonata	1	4	0.06%
Ephemeroptera	7	322	4.96%
Plecoptera	4	57	0.88%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	15	1541	23.74%
Lepidoptera			
Coleoptera	3	1552	23.91%
Diptera	5	604	9.30%
Chironomidae	16	2273	35.01%

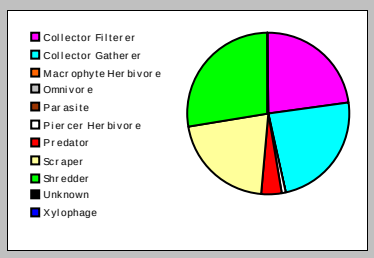


Dominant Taxa

Category	A	PRA
Cricotopus (Nostococladius)	1690	26.03%
Optioservus	1114	17.16%
Brachycentrus occidentalis	517	7.96%
Ceratopsyche	312	4.81%
Zaitzevia	293	4.51%
Antocha monticola	252	3.88%
Simulium	203	3.13%
Tvetenia	201	3.10%
Ceratopsyche cockerelli	180	2.77%
Hydropsychidae	173	2.66%
Baetis tricaudatus complex	152	2.34%
Protoptila	147	2.26%
Cleptelmis addenda	144	2.22%
Atherix	131	2.02%
Glossosoma	79	1.22%

Functional Composition

Category	R	A	PRA
Predator	13	253	3.90%
Parasite			
Collector Gatherer	19	1521	23.43%
Collector Filterer	9	1497	23.06%
Macrophyte Herbivore			
Piercer Herbivore	2	46	0.71%
Xylophage			
Scraper	7	1378	21.23%
Shredder	7	1789	27.56%
Omnivore			
Unknown	1	8	0.12%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	58
E Richness	7
P Richness	4
P Percent	0.88%
T Richness	15
EPT Richness	26
EPT Percent	29.57%
All Non-Insect Abundance	139
Diptera and Non-Insect Percent	46.46%
All Non-Insect Richness	7
All Non-Insect Percent	2.14%
Oligochaeta+Hirudinea Percent	1.43%
Baetidae/Ephemeroptera	0.500
E (no Baetids) Percent	2.48%
Hydropsychidae/Trichoptera	0.448
T (no Hydropsychids) Percent	13.11%
Diversity	
Shannon H (loge)	2.584
Shannon H (log10)	
Shannon H (log2)	3.728
Margalef D	6.769
Simpson D	0.166
Evenness	0.053
Function	
Predator Richness	13
Predator Percent	3.90%
Filterer Richness	9
Filterer Percent	23.06%
Collector Percent	46.49%
Scraper Percent	21.23%
Scraper+Shredder Percent	48.78%
Scraper/Filterer	0.921
Scraper/Scraper+Filterer	0.479
Habit	
Burrower Richness	4
Burrower Percent	26.19%
Swimmer Richness	1
Swimmer Percent	0.03%
Clinger Richness	24
Clinger Percent	55.53%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	26.03%
Hemoglobin Bearer Richness	3
Hemoglobin Bearer Percent	1.62%
Air Breather Richness	2
Air Breather Percent	3.93%
Voltinism	
Univoltine Richness	22
Semivoltine Richness	7
Multivoltine Percent	36.38%
Tolerance	
Sediment Tolerant Richness	5
Sediment Tolerant Percent	5.14%
Sediment Sensitive Richness	2
Sediment Sensitive Percent	27.25%
Metals Tolerance Index	4.500
Pollution Sensitive Richness	1
Pollution Tolerant Percent	25.91%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.679
Intolerant Percent	12.82%
Supertolerant Percent	2.48%
CTQa	104.000

Metrics Report

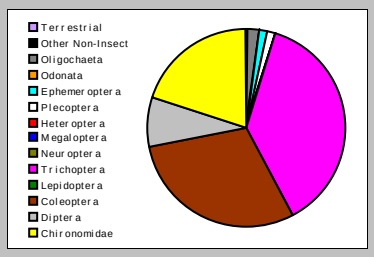
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC003
Sta. Name: Clark Fork at Galen Road - Composite
Client ID: CFR-07D
STORET ID
Coll. Date: 8/7/2014
Latitude: 46.23725 **Longitude:** -112.75302

Abundance Measures

Sample Count: 4101
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	4	11	0.27%
Oligochaeta	4	80	1.95%
Odonata			
Ephemeroptera	6	57	1.39%
Plecoptera	4	55	1.34%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	11	1534	37.41%
Lepidoptera			
Coleoptera	3	1200	29.26%
Diptera	7	344	8.39%
Chironomidae	11	820	20.00%

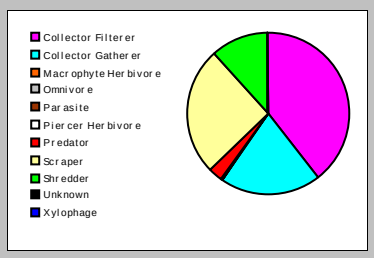


Dominant Taxa

Category	A	PRA
Optioservus	1009	24.60%
Ceratopsyche cockerelli	608	14.83%
Brachycentrus occidentalis	563	13.73%
Cricotopus (Nostococladius)	410	10.00%
Hydropsychidae	176	4.29%
Tvetenia	167	4.07%
Antocha monticola	162	3.95%
Simulium	151	3.68%
Zaitzevia	104	2.54%
Cleptelmis addenda	87	2.12%
Pagastia	69	1.68%
Hydropsyche occidentalis	65	1.58%
Orthocladius	54	1.32%
Enchytraeidae	51	1.24%
Baetis tricaudatus complex	40	0.98%

Functional Composition

Category	R	A	PRA
Predator	13	114	2.78%
Parasite			
Collector Gatherer	17	816	19.90%
Collector Filterer	7	1621	39.53%
Macrophyte Herbivore			
Piercer Herbivore	1	16	0.39%
Xylophage			
Scraper	5	1058	25.80%
Shredder	7	476	11.61%
Omnivore			
Unknown			



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	50
E Richness	6
P Richness	4
P Percent	1.34%
T Richness	11
EPT Richness	21
EPT Percent	40.14%
All Non-Insect Abundance	91
Diptera and Non-Insect Percent	30.60%
All Non-Insect Richness	8
All Non-Insect Percent	2.22%
Oligochaeta+Hirudinea Percent	2.00%
Baetidae/Ephemeroptera	0.807
E (no Baetids) Percent	0.27%
Hydropsychidae/Trichoptera	0.561
T (no Hydropsychids) Percent	16.44%
Diversity	
Shannon H (loge)	2.562
Shannon H (log10)	
Shannon H (log2)	3.696
Margalef D	6.187
Simpson D	0.126
Evenness	0.058
Function	
Predator Richness	13
Predator Percent	2.78%
Filterer Richness	7
Filterer Percent	39.53%
Collector Percent	59.42%
Scraper Percent	25.80%
Scraper+Shredder Percent	37.41%
Scraper/Filterer	0.653
Scraper/Scraper+Filterer	0.395
Habit	
Burrower Richness	4
Burrower Percent	10.41%
Swimmer Richness	2
Swimmer Percent	0.15%
Clinger Richness	21
Clinger Percent	59.96%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	10.00%
Hemoglobin Bearer Richness	2
Hemoglobin Bearer Percent	0.83%
Air Breather Richness	3
Air Breather Percent	4.10%
Voltinism	
Univoltine Richness	20
Semivoltine Richness	7
Multivoltine Percent	20.60%
Tolerance	
Sediment Tolerant Richness	4
Sediment Tolerant Percent	4.17%
Sediment Sensitive Richness	2
Sediment Sensitive Percent	10.66%
Metals Tolerance Index	4.409
Pollution Sensitive Richness	1
Pollution Tolerant Percent	28.31%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.319
Intolerant Percent	16.73%
Supertolerant Percent	1.76%
CTQa	104.000

Metrics Report

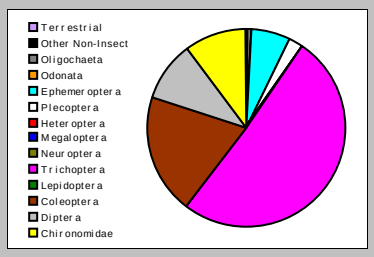
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC004
Sta. Name: Clark Fork at Gem Backroad near Racetrack - Composite
Client ID: CFR-11F
STORET ID
Coll. Date: 8/8/2014
Latitude: 46.2652 **Longitude:** -112.7443

Abundance Measures

Sample Count: 2337
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	3	4	0.17%
Oligochaeta	3	20	0.86%
Odonata	1	2	0.09%
Ephemeroptera	10	149	6.38%
Plecoptera	2	52	2.23%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	10	1182	50.58%
Lepidoptera			
Coleoptera	2	460	19.68%
Diptera	4	226	9.67%
Chironomidae	10	242	10.36%

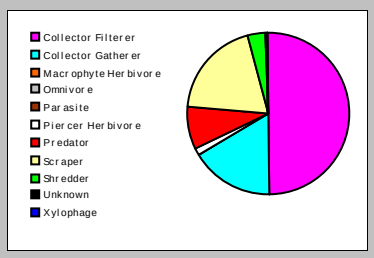


Dominant Taxa

Category	A	PRA
Ceratopsyche cockerelli	630	26.96%
Optioservus	416	17.80%
Hydropsychidae	177	7.57%
Brachycentrus occidentalis	144	6.16%
Cheumatopsyche	140	5.99%
Atherix	130	5.56%
Tricorythodes	80	3.42%
Tvetenia	73	3.12%
Orthocladius	70	3.00%
Cricotopus (Nostococladius)	48	2.05%
Antocha monticola	45	1.93%
Zaitzevia	44	1.88%
Simulium	41	1.75%
Skwala	38	1.63%
Hydroptila	38	1.63%

Functional Composition

Category	R	A	PRA
Predator	10	194	8.30%
Parasite			
Collector Gatherer	14	395	16.90%
Collector Filterer	6	1153	49.34%
Macrophyte Herbivore			
Piercer Herbivore	1	38	1.63%
Xylophage			
Scraper	6	463	19.81%
Shredder	7	90	3.85%
Omnivore			
Unknown	1	4	0.17%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	45
E Richness	10
P Richness	2
P Percent	2.23%
T Richness	10
EPT Richness	22
EPT Percent	59.18%
All Non-Insect Abundance	24
Diptera and Non-Insect Percent	21.05%
All Non-Insect Richness	6
All Non-Insect Percent	1.03%
Oligochaeta+Hirudinea Percent	0.86%
Baetidae/Ephemeroptera	0.174
E (no Baetids) Percent	5.26%
Hydropsychidae/Trichoptera	0.809
T (no Hydropsychids) Percent	9.67%
Diversity	
Shannon H (loge)	2.548
Shannon H (log10)	
Shannon H (log2)	3.675
Margalef D	5.886
Simpson D	0.157
Evenness	0.057
Function	
Predator Richness	10
Predator Percent	8.30%
Filterer Richness	6
Filterer Percent	49.34%
Collector Percent	66.24%
Scraper Percent	19.81%
Scraper+Shredder Percent	23.66%
Scraper/Filterer	0.402
Scraper/Scraper+Filterer	0.287
Habit	
Burrower Richness	3
Burrower Percent	2.57%
Swimmer Richness	1
Swimmer Percent	0.09%
Clinger Richness	19
Clinger Percent	51.35%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	2.05%
Hemoglobin Bearer Richness	4
Hemoglobin Bearer Percent	1.50%
Air Breather Richness	2
Air Breather Percent	2.35%
Voltinism	
Univoltine Richness	18
Semivoltine Richness	6
Multivoltine Percent	12.41%
Tolerance	
Sediment Tolerant Richness	5
Sediment Tolerant Percent	5.86%
Sediment Sensitive Richness	2
Sediment Sensitive Percent	2.10%
Metals Tolerance Index	4.212
Pollution Sensitive Richness	2
Pollution Tolerant Percent	37.74%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.337
Intolerant Percent	8.22%
Supertolerant Percent	0.98%
CTQa	104.000

Metrics Report

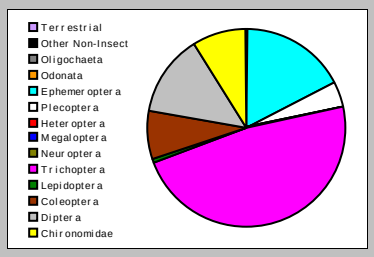
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC005
Sta. Name: Clark Fork at Turah - Composite
Client ID: CFR-116A
STORET ID
Coll. Date: 8/8/2014
Latitude: 46.4934 **Longitude:** -113.4848

Abundance Measures

Sample Count: 2446
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	1	1	0.04%
Oligochaeta	2	2	0.08%
Odonata	1	1	0.04%
Ephemeroptera	12	426	17.42%
Plecoptera	4	97	3.97%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	9	1165	47.63%
Lepidoptera	1	13	0.53%
Coleoptera	2	193	7.89%
Diptera	5	328	13.41%
Chironomidae	16	220	8.99%

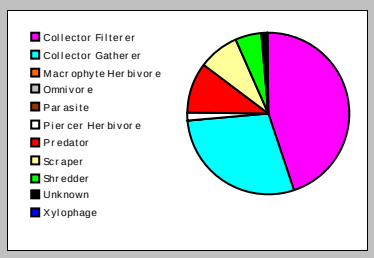


Dominant Taxa

Category	A	PRA
Hydropsychidae	511	20.89%
Hydropsyche occidentalis	223	9.12%
Antocha monticola	198	8.09%
Cheumatopsyche	175	7.15%
Optioservus	153	6.26%
Tricorythodes	107	4.37%
Acentrella insignificans	87	3.56%
Ceratopsyche cockerelli	82	3.35%
Cricotopus	71	2.90%
Atherix	62	2.53%
Arctopsyche	57	2.33%
Eukiefferiella	51	2.09%
Simulium	49	2.00%
Attenella margarita	46	1.88%
Skwala	43	1.76%

Functional Composition

Category	R	A	PRA
Predator	10	244	9.98%
Parasite			
Collector Gatherer	20	699	28.58%
Collector Filterer	9	1094	44.73%
Macrophyte Herbivore			
Piercer Herbivore	1	43	1.76%
Xylophage			
Scraper	4	201	8.22%
Shredder	7	141	5.76%
Omnivore			
Unknown	2	24	0.98%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	53
E Richness	12
P Richness	4
P Percent	3.97%
T Richness	9
EPT Richness	25
EPT Percent	69.01%
All Non-Insect Abundance	3
Diptera and Non-Insect Percent	22.53%
All Non-Insect Richness	3
All Non-Insect Percent	0.12%
Oligochaeta+Hirudinea Percent	0.08%
Baetidae/Ephemeroptera	0.394
E (no Baetids) Percent	10.55%
Hydropsychidae/Trichoptera	0.900
T (no Hydropsychids) Percent	4.78%
Diversity	
Shannon H (loge)	3.210
Shannon H (log10)	
Shannon H (log2)	4.631
Margalef D	6.986
Simpson D	0.059
Evenness	0.038
Function	
Predator Richness	10
Predator Percent	9.98%
Filterer Richness	9
Filterer Percent	44.73%
Collector Percent	73.30%
Scraper Percent	8.22%
Scraper+Shredder Percent	13.98%
Scraper/Filterer	0.184
Scraper/Scraper+Filterer	0.155
Habit	
Burrower Richness	4
Burrower Percent	1.02%
Swimmer Richness	2
Swimmer Percent	4.25%
Clinger Richness	22
Clinger Percent	65.62%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	0.53%
Hemoglobin Bearer Richness	2
Hemoglobin Bearer Percent	0.53%
Air Breather Richness	2
Air Breather Percent	8.14%
Voltinism	
Univoltine Richness	18
Semivoltine Richness	8
Multivoltine Percent	15.94%
Tolerance	
Sediment Tolerant Richness	3
Sediment Tolerant Percent	12.51%
Sediment Sensitive Richness	3
Sediment Sensitive Percent	2.94%
Metals Tolerance Index	4.402
Pollution Sensitive Richness	2
Pollution Tolerant Percent	25.67%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.474
Intolerant Percent	7.03%
Supertolerant Percent	3.56%
CTQa	104.000

Metrics Report

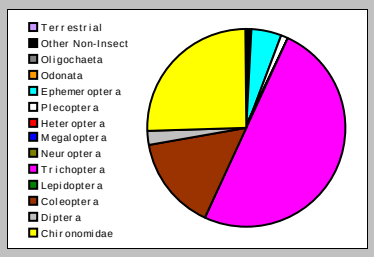
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC006
Sta. Name: Mill-Willow Creeks above Mill-Willow Bypass at Frontage Rd. - Composite
Client ID: MCWC-MWB
STORET ID
Coll. Date: 8/7/2014
Latitude: 46.12649 **Longitude:** -112.79876

Abundance Measures

Sample Count: 3344
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	5	14	0.42%
Oligochaeta	1	15	0.45%
Odonata			
Ephemeroptera	11	166	4.96%
Plecoptera	5	39	1.17%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	13	1659	49.61%
Lepidoptera	1	1	0.03%
Coleoptera	2	510	15.25%
Diptera	4	86	2.57%
Chironomidae	17	854	25.54%

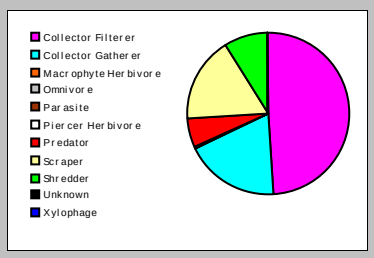


Dominant Taxa

Category	A	PRA
Brachycentrus occidentalis	1264	37.80%
Optioservus	416	12.44%
Rheotanytarsus	234	7.00%
Cricotopus (Nostococladius)	204	6.10%
Tvetenia	115	3.44%
Hydropsychidae	91	2.72%
Eukiefferiella	88	2.63%
Arctopsyche	87	2.60%
Glossosomatidae	79	2.36%
Pagastia	77	2.30%
Orthocladius	64	1.91%
Elmidae	51	1.53%
Zaitzevia	43	1.29%
Ecdyonurus criddlei	34	1.02%
Hexatoma	32	0.96%

Functional Composition

Category	R	A	PRA
Predator	13	192	5.74%
Parasite			
Collector Gatherer	18	637	19.05%
Collector Filterer	9	1628	48.68%
Macrophyte Herbivore			
Piercer Herbivore	1	9	0.27%
Xylophage			
Scraper	10	591	17.67%
Shredder	8	287	8.58%
Omnivore			
Unknown			



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	59
E Richness	11
P Richness	5
P Percent	1.17%
T Richness	13
EPT Richness	29
EPT Percent	55.74%
All Non-Insect Abundance	29
Diptera and Non-Insect Percent	28.98%
All Non-Insect Richness	6
All Non-Insect Percent	0.87%
Oligochaeta+Hirudinea Percent	0.45%
Baetidae/Ephemeroptera	0.410
E (no Baetids) Percent	2.93%
Hydropsychidae/Trichoptera	0.112
T (no Hydropsychids) Percent	44.05%
Diversity	
Shannon H (loge)	2.368
Shannon H (log10)	
Shannon H (log2)	3.417
Margalef D	7.314
Simpson D	0.229
Evenness	0.056
Function	
Predator Richness	13
Predator Percent	5.74%
Filterer Richness	9
Filterer Percent	48.68%
Collector Percent	67.73%
Scraper Percent	17.67%
Scraper+Shredder Percent	26.26%
Scraper/Filterer	0.363
Scraper/Scraper+Filterer	0.266
Habit	
Burrower Richness	3
Burrower Percent	7.09%
Swimmer Richness	3
Swimmer Percent	1.58%
Clinger Richness	29
Clinger Percent	75.09%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	6.10%
Hemoglobin Bearer Richness	3
Hemoglobin Bearer Percent	0.36%
Air Breather Richness	2
Air Breather Percent	1.73%
Voltinism	
Univoltine Richness	26
Semivoltine Richness	8
Multivoltine Percent	27.48%
Tolerance	
Sediment Tolerant Richness	5
Sediment Tolerant Percent	2.90%
Sediment Sensitive Richness	3
Sediment Sensitive Percent	9.39%
Metals Tolerance Index	3.907
Pollution Sensitive Richness	2
Pollution Tolerant Percent	16.06%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	3.397
Intolerant Percent	46.71%
Supertolerant Percent	3.59%
CTQa	104.000

Metrics Report

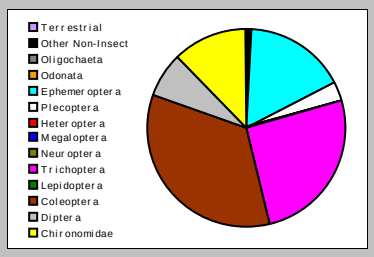
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC007
Sta. Name: Warm Springs Creek near mouth - Composite
Client ID: WSC-SBC
STORET ID
Coll. Date: 8/7/2014
Latitude: 46.18041 **Longitude:** -112.78592

Abundance Measures

Sample Count: 747
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	2	6	0.80%
Oligochaeta	1	1	0.13%
Odonata			
Ephemeroptera	5	123	16.47%
Plecoptera	3	26	3.48%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	12	188	25.17%
Lepidoptera			
Coleoptera	3	256	34.27%
Diptera	6	56	7.50%
Chironomidae	9	91	12.18%

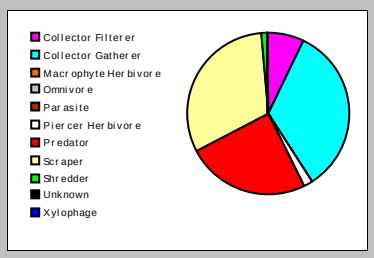


Dominant Taxa

Category	A	PRA
Optioservus	214	28.65%
Arctopsyche	113	15.13%
Baetis tricaudatus complex	85	11.38%
Eukiefferiella	42	5.62%
Acentrella insignificans	32	4.28%
Elmidae	27	3.61%
Hesperoperla pacifica	24	3.21%
Pagastia	21	2.81%
Simulium	18	2.41%
Chelifera / Metachela	16	2.14%
Brachycentrus occidentalis	15	2.01%
Brachycentrus americanus	15	2.01%
Tvetenia	12	1.61%
Cleptelmis addenda	12	1.61%
Ochrotrichia	11	1.47%

Functional Composition

Category	R	A	PRA
Predator	11	182	24.36%
Parasite			
Collector Gatherer	13	249	33.33%
Collector Filterer	5	57	7.63%
Macrophyte Herbivore			
Piercer Herbivore	1	13	1.74%
Xylophage			
Scraper	6	235	31.46%
Shredder	5	10	1.34%
Omnivore			
Unknown	0	1	0.13%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	41
E Richness	5
P Richness	3
P Percent	3.48%
T Richness	12
EPT Richness	20
EPT Percent	45.11%
All Non-Insect Abundance	7
Diptera and Non-Insect Percent	20.62%
All Non-Insect Richness	3
All Non-Insect Percent	0.94%
Oligochaeta+Hirudinea Percent	0.13%
Baetidae/Ephemeroptera	0.967
E (no Baetids) Percent	0.54%
Hydropsychidae/Trichoptera	0.601
T (no Hydropsychids) Percent	10.04%
Diversity	
Shannon H (loge)	2.791
Shannon H (log10)	
Shannon H (log2)	4.026
Margalef D	6.398
Simpson D	0.099
Evenness	0.053
Function	
Predator Richness	11
Predator Percent	24.36%
Filterer Richness	5
Filterer Percent	7.63%
Collector Percent	40.96%
Scraper Percent	31.46%
Scraper+Shredder Percent	32.80%
Scraper/Filterer	4.123
Scraper/Scraper+Filterer	0.805
Habit	
Burrower Richness	3
Burrower Percent	1.74%
Swimmer Richness	2
Swimmer Percent	4.55%
Clinger Richness	23
Clinger Percent	66.40%
Characteristics	
Cold Stenotherm Richness	2
Cold Stenotherm Percent	0.80%
Hemoglobin Bearer Richness	1
Hemoglobin Bearer Percent	0.13%
Air Breather Richness	2
Air Breather Percent	1.47%
Voltinism	
Univoltine Richness	17
Semivoltine Richness	8
Multivoltine Percent	18.47%
Tolerance	
Sediment Tolerant Richness	3
Sediment Tolerant Percent	1.61%
Sediment Sensitive Richness	3
Sediment Sensitive Percent	16.87%
Metals Tolerance Index	4.658
Pollution Sensitive Richness	3
Pollution Tolerant Percent	30.25%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.042
Intolerant Percent	26.64%
Supertolerant Percent	6.56%

Metrics Report

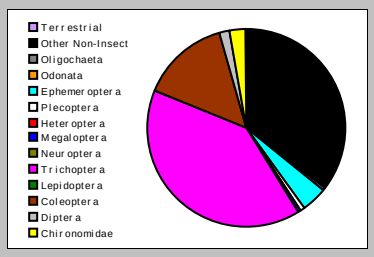
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC008
Sta. Name: Lost Creek at Frontage Road - Composite
Client ID: LC-7.5
STORET ID
Coll. Date: 8/7/2014
Latitude: 46.21862 **Longitude:** -112.77384

Abundance Measures

Sample Count: 5685
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	9	2024	35.60%
Oligochaeta	4	27	0.47%
Odonata	1	1	0.02%
Ephemeroptera	7	221	3.89%
Plecoptera	1	56	0.99%
Heteroptera			
Megaloptera	1	1	0.02%
Neuroptera			
Trichoptera	12	2284	40.18%
Lepidoptera			
Coleoptera	5	829	14.58%
Diptera	5	96	1.69%
Chironomidae	12	146	2.57%

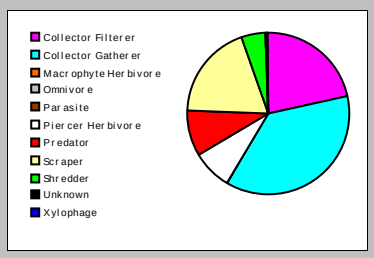


Dominant Taxa

Category	A	PRA
Hyalella	1334	23.47%
Brachycentrus occidentalis	608	10.69%
Helicopsyche	550	9.67%
Optioservus	436	7.67%
Hydroptilidae	298	5.24%
Gammarus	247	4.34%
Ceratopsyche slossonae	241	4.24%
Oecetis	229	4.03%
Cleptelmis addenda	211	3.71%
Pisidium	192	3.38%
Hydroptila	138	2.43%
Hydropsychidae	137	2.41%
Elmidae	134	2.36%
Helobdella stagnalis	116	2.04%
Baetis tricaudatus complex	89	1.57%

Functional Composition

Category	R	A	PRA
Predator	14	551	9.69%
Parasite			
Collector Gatherer	19	2070	36.41%
Collector Filterer	10	1246	21.92%
Macrophyte Herbivore			
Piercer Herbivore	1	436	7.67%
Xylophage			
Scraper	6	1082	19.03%
Shredder	6	281	4.94%
Omnivore			
Unknown	1	19	0.33%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	57
E Richness	7
P Richness	1
P Percent	0.99%
T Richness	12
EPT Richness	20
EPT Percent	45.05%
All Non-Insect Abundance	2051
Diptera and Non-Insect Percent	40.33%
All Non-Insect Richness	13
All Non-Insect Percent	36.08%
Oligochaeta+Hirudinea Percent	3.04%
Baetidae/Ephemeroptera	0.778
E (no Baetids) Percent	0.86%
Hydropsychidae/Trichoptera	0.183
T (no Hydropsychids) Percent	32.84%
Diversity	
Shannon H (loge)	2.660
Shannon H (log10)	
Shannon H (log2)	3.838
Margalef D	6.618
Simpson D	0.125
Evenness	0.053
Function	
Predator Richness	14
Predator Percent	9.69%
Filterer Richness	10
Filterer Percent	21.92%
Collector Percent	58.33%
Scraper Percent	19.03%
Scraper+Shredder Percent	23.98%
Scraper/Filterer	0.868
Scraper/Scraper+Filterer	0.465
Habit	
Burrower Richness	3
Burrower Percent	0.33%
Swimmer Richness	5
Swimmer Percent	1.35%
Clinger Richness	18
Clinger Percent	51.45%
Characteristics	
Cold Stenotherm Richness	0
Cold Stenotherm Percent	0.00%
Hemoglobin Bearer Richness	3
Hemoglobin Bearer Percent	0.74%
Air Breather Richness	5
Air Breather Percent	1.32%
Voltinism	
Univoltine Richness	26
Semivoltine Richness	6
Multivoltine Percent	11.94%
Tolerance	
Sediment Tolerant Richness	6
Sediment Tolerant Percent	3.50%
Sediment Sensitive Richness	2
Sediment Sensitive Percent	0.11%
Metals Tolerance Index	3.459
Pollution Sensitive Richness	0
Pollution Tolerant Percent	33.81%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	5.409
Intolerant Percent	12.58%
Supertolerant Percent	35.55%
CTQa	104.000

Metrics Report

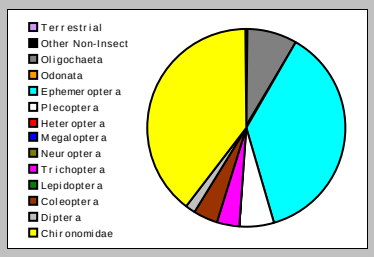
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC009
Sta. Name: Racetrack Creek at Frontage Road - Composite
Client ID: RTC-1.5
STORET ID
Coll. Date: 8/8/2014
Latitude: 46.28395 **Longitude:** -112.74921

Abundance Measures

Sample Count: 1182
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	3	4	0.34%
Oligochaeta	4	93	7.87%
Odonata			
Ephemeroptera	12	443	37.48%
Plecoptera	4	62	5.25%
Heteroptera	1	1	0.08%
Megaloptera			
Neuroptera			
Trichoptera	8	44	3.72%
Lepidoptera			
Coleoptera	5	47	3.98%
Diptera	5	17	1.44%
Chironomidae	12	471	39.85%

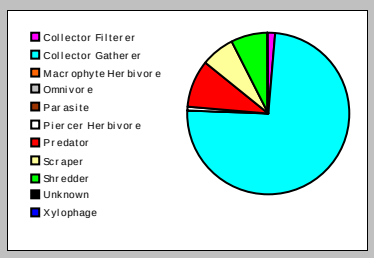


Dominant Taxa

Category	A	PRA
Pagastia	285	24.11%
Baetis tricaudatus complex	254	21.49%
Enchytraeidae	72	6.09%
Ephemerella tibialis	67	5.67%
Micropsectra	46	3.89%
Ephemerellidae	44	3.72%
Cricotopus	44	3.72%
Optioservus	39	3.30%
Skwala	38	3.21%
Orthocladiinae	37	3.13%
Drunella grandis	37	3.13%
Neophylax rickeri	21	1.78%
Tvetenia	17	1.44%
Ecdyonurus criddlei	17	1.44%
Tanytarsus	14	1.18%

Functional Composition

Category	R	A	PRA
Predator	12	118	9.98%
Parasite			
Collector Gatherer	18	870	73.60%
Collector Filterer	4	21	1.78%
Macrophyte Herbivore			
Piercer Herbivore	3	7	0.59%
Xylophage			
Scraper	8	82	6.94%
Shredder	8	83	7.02%
Omnivore			
Unknown	1	1	0.08%



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	54
E Richness	12
P Richness	4
P Percent	5.25%
T Richness	8
EPT Richness	24
EPT Percent	46.45%
All Non-Insect Abundance	97
Diptera and Non-Insect Percent	49.49%
All Non-Insect Richness	7
All Non-Insect Percent	8.21%
Oligochaeta+Hirudinea Percent	7.87%
Baetidae/Ephemeroptera	0.578
E (no Baetids) Percent	15.82%
Hydropsychidae/Trichoptera	0.000
T (no Hydropsychids) Percent	3.72%
Diversity	
Shannon H (loge)	2.575
Shannon H (log10)	
Shannon H (log2)	3.715
Margalef D	7.602
Simpson D	0.144
Evenness	0.057
Function	
Predator Richness	12
Predator Percent	9.98%
Filterer Richness	4
Filterer Percent	1.78%
Collector Percent	75.38%
Scraper Percent	6.94%
Scraper+Shredder Percent	13.96%
Scraper/Filterer	3.905
Scraper/Scraper+Filterer	0.796
Habit	
Burrower Richness	3
Burrower Percent	0.85%
Swimmer Richness	6
Swimmer Percent	1.78%
Clinger Richness	21
Clinger Percent	28.76%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	0.08%
Hemoglobin Bearer Richness	1
Hemoglobin Bearer Percent	0.25%
Air Breather Richness	5
Air Breather Percent	1.44%
Voltinism	
Univoltine Richness	25
Semivoltine Richness	6
Multivoltine Percent	40.52%
Tolerance	
Sediment Tolerant Richness	3
Sediment Tolerant Percent	1.18%
Sediment Sensitive Richness	1
Sediment Sensitive Percent	0.08%
Metals Tolerance Index	5.162
Pollution Sensitive Richness	3
Pollution Tolerant Percent	4.40%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	3.035
Intolerant Percent	37.48%
Supertolerant Percent	1.69%
CTQa	104.000

Metrics Report

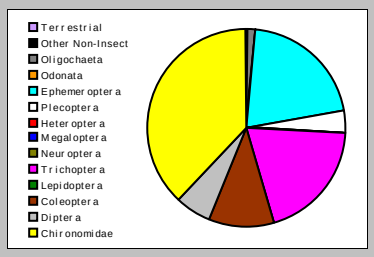
Project ID: PBSJ14CFRC
RAI No.: PBSJ14CFRC010
Sta. Name: Little Blackfoot River at Beck Hill Rd. bridge - Composite
Client ID: LBR-CFR-1.5
STORET ID
Coll. Date: 8/8/2014
Latitude: 46.53710 **Longitude:** -112.72443

Abundance Measures

Sample Count: 1761
Sample Abundance: of sample used
Coll. Procedure:
Sample Notes:

Taxonomic Composition

Category	R	A	PRA
Terrestrial			
Other Non-Insect	2	4	0.23%
Oligochaeta	2	26	1.48%
Odonata			
Ephemeroptera	9	368	20.90%
Plecoptera	6	60	3.41%
Heteroptera			
Megaloptera			
Neuroptera			
Trichoptera	12	338	19.19%
Lepidoptera			
Coleoptera	3	189	10.73%
Diptera	7	100	5.68%
Chironomidae	21	676	38.39%

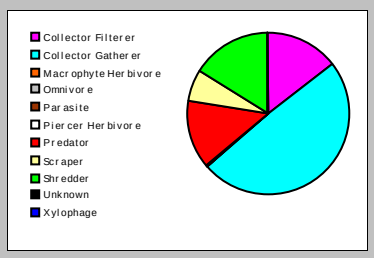


Dominant Taxa

Category	A	PRA
Eukiefferiella	186	10.56%
Cricotopus (Nostococladius)	173	9.82%
Tvetenia	127	7.21%
Hydropsychidae	112	6.36%
Zaitzevia	109	6.19%
Baetis tricaudatus complex	86	4.88%
Drunella grandis	85	4.83%
Optioservus	68	3.86%
Micropsectra	66	3.75%
Hydropsyche	57	3.24%
Attenella margarita	57	3.24%
Arctopsyche	54	3.07%
Ecdyonurus criddlei	50	2.84%
Brachycentrus occidentalis	44	2.50%
Antocha monticola	39	2.21%

Functional Composition

Category	R	A	PRA
Predator	16	246	13.97%
Parasite			
Collector Gatherer	23	850	48.27%
Collector Filterer	7	264	14.99%
Macrophyte Herbivore			
Piercer Herbivore	1	5	0.28%
Xylophage			
Scraper	6	109	6.19%
Shredder	9	287	16.30%
Omnivore			
Unknown			



Metric Values and Scores

Metric	Value
Composition	
Taxa Richness	62
E Richness	9
P Richness	6
P Percent	3.41%
T Richness	12
EPT Richness	27
EPT Percent	43.50%
All Non-Insect Abundance	30
Diptera and Non-Insect Percent	45.77%
All Non-Insect Richness	4
All Non-Insect Percent	1.70%
Oligochaeta+Hirudinea Percent	1.48%
Baetidae/Ephemeroptera	0.280
E (no Baetids) Percent	15.05%
Hydropsychidae/Trichoptera	0.692
T (no Hydropsychids) Percent	5.91%
Diversity	
Shannon H (loge)	3.212
Shannon H (log10)	
Shannon H (log2)	4.634
Margalef D	8.402
Simpson D	0.060
Evenness	0.037
Function	
Predator Richness	16
Predator Percent	13.97%
Filterer Richness	7
Filterer Percent	14.99%
Collector Percent	63.26%
Scraper Percent	6.19%
Scraper+Shredder Percent	22.49%
Scraper/Filterer	0.413
Scraper/Scraper+Filterer	0.292
Habit	
Burrower Richness	5
Burrower Percent	11.02%
Swimmer Richness	2
Swimmer Percent	1.19%
Clinger Richness	28
Clinger Percent	47.93%
Characteristics	
Cold Stenotherm Richness	1
Cold Stenotherm Percent	9.82%
Hemoglobin Bearer Richness	2
Hemoglobin Bearer Percent	2.33%
Air Breather Richness	3
Air Breather Percent	3.24%
Voltinism	
Univoltine Richness	26
Semivoltine Richness	9
Multivoltine Percent	39.69%
Tolerance	
Sediment Tolerant Richness	4
Sediment Tolerant Percent	4.77%
Sediment Sensitive Richness	3
Sediment Sensitive Percent	14.76%
Metals Tolerance Index	4.320
Pollution Sensitive Richness	3
Pollution Tolerant Percent	13.00%
Pollution Tolerant Richness	
Hilsenhoff Biotic Index	4.599
Intolerant Percent	16.30%
Supertolerant Percent	11.98%
CTQa	104.000

APPENDIX I

MACROINVERTEBRATE BIOINDEX SCORES

APPENDIX I
MACROINVERTEBRATE QUALITY ASSURANCE AND QUALITY CONTROL PARAMETERS

Table I1. Macroinvertebrate bioindex scores and impairment classification for the Clark fork River Operable Unit, 2014.

Site	Replicate number	Index					
		McGuire biointegrity metrics [McGuire, 2010]		McGuire metals-sensitive subset [McGuire, 2010]		McGuire nutrient-sensitive subset [McGuire, 2010]	
		score	impairment class	score	impairment class	score	impairment class
MCWC-MWB	1	87.88	slightly impaired	72.22	slightly impaired	94.44	nonimpaired
MCWC-MWB	2	90.91	nonimpaired	94.44	nonimpaired	88.89	nonimpaired
MCWC-MWB	3	92.42	nonimpaired	88.89	nonimpaired	94.44	nonimpaired
MCWC-MWB	4	92.42	nonimpaired	94.44	nonimpaired	100	nonimpaired
WSC-SBC	1	84.85	slightly impaired	61.11	slightly impaired	94.44	nonimpaired
WSC-SBC	2	83.33	slightly impaired	55.56	moderately impaired	94.44	nonimpaired
WSC-SBC	3	84.85	slightly impaired	61.11	slightly impaired	94.44	nonimpaired
WSC-SBC	4	83.33	slightly impaired	50	moderately impaired	100	nonimpaired
SS-25	1	86.36	slightly impaired	77.78	slightly impaired	83.33	nonimpaired
SS-25	2	86.36	slightly impaired	77.78	slightly impaired	88.89	nonimpaired
SS-25	3	81.82	slightly impaired	83.33	nonimpaired	66.67	slightly impaired
SS-25	4	87.88	slightly impaired	77.78	slightly impaired	88.89	nonimpaired
CFR-03A	1	89.39	slightly impaired	88.89	nonimpaired	88.89	nonimpaired
CFR-03A	2	87.88	slightly impaired	83.33	nonimpaired	94.44	nonimpaired
CFR-03A	3	90.91	nonimpaired	88.89	nonimpaired	88.89	nonimpaired
CFR-03A	4	90.91	nonimpaired	88.89	nonimpaired	88.89	nonimpaired
CFR-7D	1	92.42	nonimpaired	88.89	nonimpaired	100	nonimpaired
CFR-7D	2	90.91	nonimpaired	83.33	nonimpaired	94.44	nonimpaired
CFR-7D	3	87.88	slightly impaired	72.22	slightly impaired	94.44	nonimpaired
CFR-7D	4	87.88	slightly impaired	77.78	slightly impaired	88.89	nonimpaired
CFR-11F	1	83.33	slightly impaired	77.78	slightly impaired	77.78	slightly impaired
CFR-11F	2	83.33	slightly impaired	55.56	moderately impaired	94.44	nonimpaired
CFR-11F	3	87.88	slightly impaired	83.33	nonimpaired	88.89	nonimpaired
CFR-11F	4	87.88	slightly impaired	83.33	nonimpaired	88.89	nonimpaired
CFR-116A	1	87.88	slightly impaired	83.33	nonimpaired	83.33	nonimpaired
CFR-116A	2	90.91	nonimpaired	88.89	nonimpaired	88.89	nonimpaired
CFR-116A	3	89.39	slightly impaired	83.33	nonimpaired	94.44	nonimpaired

CFR-116A	4	86.36	slightly impaired	72.22	slightly impaired	88.89	nonimpaired
LC-7.5	1	90.91	nonimpaired	88.89	nonimpaired	83.33	nonimpaired
LC-7.5	2	87.88	slightly impaired	88.89	nonimpaired	77.78	slightly impaired
LC-7.5	3	92.42	nonimpaired	88.89	nonimpaired	88.89	nonimpaired
LC-7.5	4	89.39	slightly impaired	88.89	nonimpaired	83.33	nonimpaired
RTC-1.5	1	84.85	slightly impaired	61.11	slightly impaired	100	nonimpaired
RTC-1.5	2	86.36	slightly impaired	66.67	slightly impaired	100	nonimpaired
RTC-1.5	3	80.3	slightly impaired	50	moderately impaired	100	nonimpaired
RTC-1.5	4	84.85	slightly impaired	61.11	slightly impaired	100	nonimpaired
LBR-CFR	1	89.39	slightly impaired	77.78	slightly impaired	100	nonimpaired
LBR-CFR	2	84.85	slightly impaired	72.22	slightly impaired	94.44	nonimpaired
LBR-CFR	3	87.88	slightly impaired	83.33	nonimpaired	88.89	nonimpaired
LBR-CFR	4	84.85	slightly impaired	72.22	slightly impaired	94.44	nonimpaired

APPENDIX J

MACROINVERTEBRATE QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES

APPENDIX J
MACROINVERTEBRATE QUALITY ASSURANCE AND QUALITY CONTROL PARAMETERS

Table J1. Results of internal quality control procedures for subsampling and taxonomy for macroinvertebrate samples from the Clark Fork River basin, 2014. Rhithron internal quality standards, consistent with industry norms are: ≥95% for sorting efficiency; ≥95% for Bray-Curtis similarity; ≤5% for percent taxonomic disagreement; and ≤5% for percent difference in enumeration.

Rhithron Sample ID	Site ID	Sorting efficiency (%)	Bray-Curtis similarity (%)	Percent taxonomic disagreement (%)	Percent difference in enumeration (%)
PBSJ14CFR021	MCWC-MWB	92.9			
PBSJ14CFR026	WSC-SBC		100.0	0.0	0.0
PBSJ14CFR005	CFR-03A	96.6			
PBSJ14CFR007	CFR-03A		100.0	0.0	0.0

APPENDIX K

PUBLISHED ELECTROFISHING DATA FROM LINDSTROM [2011]

APPENDIX K
PUBLISHED ELECTROFISHING DATA FROM LINDSTROM [2011]

Table K1. Electrofishing data collected on the Upper Clark Fork River at the pH Shack Section from 2008 through 2010. Population estimates and capture efficiencies are for brown trout greater than 175 mm (~7") in total length. Number following the population estimate (in parentheses) represents the 95 % confidence interval. Cutt x Rbow represents a phenotypic hybrid between a cutthroat and rainbow trout.

Year	Trout Species	Population Estimate (fish/mile)	Capture Efficiency (%)	# of Fish Handled	Mean Length (mm)	Length Range (mm)	Species Composition (%)
2008	Brown	708 (+/- 102)	26	567	318	88-461	99
	Rainbow	-	-	5	388	296-502	< 1
	Cutthroat	-	-	3	365	355-381	< 1
2009	Brown	185 (+/- 73)	22	116	357	96-500	95
	Rainbow	-	-	5	362	302-560	4
	Cutthroat	-	-	1	383	-	1
2010	Brown	421 (+/- 149)	15	232	300	111-615	95
	Rainbow	-	-	5	478	312-565	2
	Cutthroat	-	-	3	260	252-276	1
	Cutt x Rbow	-	-	3	357	338-392	1

Table K2. Electrofishing data collected on the Upper Clark Fork River at the Below Sager Lane Section in 2010. Population estimates and capture efficiencies are for brown trout greater than 175 mm (~7") in total length. Number following the population estimate (in parentheses) represents the 95 % confidence interval.

Year	Trout Species	Population Estimate (fish/mile)	Capture Efficiency (%)	# of Fish Handled	Mean Length (mm)	Length Range (mm)	Species Composition (%)
2010	Brown	262 (+/- 85)	14	383	293	93-525	99
	Brook	-	-	3	232	125-293	< 1
	Rainbow	-	-	1	645	-	< 1

Table K3. Electrofishing data collected on the Upper Clark Fork River at the original Williams-Tavenner Section from 2008 through 2010. Population estimates and capture efficiencies are for brown trout greater than 175 mm (~7") in total length. Number following the population estimate (in parentheses) represents the 95 % confidence interval.

Year	Trout Species	Population Estimate -fish/mile-	Capture Efficiency -%-	# of Fish Handled	Mean Length -mm-	Length Range -mm-	Species Composition -%-
2008	Brown	324 (+/- 84)	28	194	349	118-524	100
2009	Brown	158 (+/- 77)	19	77	341	132-527	99
	Cutthroat	-	-	1	279	-	1
2010	Brown	206 (+/- 59)	27	146	332	114-509	99
	Cutthroat	-	-	1	285	-	< 1
	Brook	-	-	1	145	-	< 1

Table K4. Electrofishing data collected on the Upper Clark Fork River at the Phosphate Section from 2008 through 2010. Population estimates and capture efficiencies are for brown trout greater than 175 mm (~7") in total length. Number following the population estimate (in parentheses) represents the 95 % confidence interval.

Year	Trout Species	Population Estimate (fish/mile)	Capture Efficiency (%)	# of Fish Handled	Mean Length (mm)	Length Range (mm)	Species Composition (%)
2008	Brown	316 (+/- 58)	31	343	333	97-468	99
	Cutthroat	-	-	3	325	256-380	1
2009	Brown	292 (+/- 143)	13	159	334	125-465	99
	Cutthroat	-	-	1	274	-	1
2010	Brown	233 (+/- 46)	35	279	308	97-478	99
	Cutthroat	-	-	3	291	242-345	1

APPENDIX L

COMBINED RESULTS OF U. S. GEOLOGICAL SURVEY AND MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY SURFACE WATER MONITORING FOR CONTAMINANTS OF CONCERN IN THE CLARK FORK RIVER OPERABALE UNIT, 2014

APPENDIX L
COMBINED RESULTS OF U. S. GEOLOGICAL SURVEY AND MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY SURFACE WATER MONITORING FOR CONTAMINANTS OF CONCERN IN THE CLARK FORK RIVER OPERABALE UNIT, 2014

L.1 INTRODUCTION

This appendix provides the combined results of the U. S. Geological Survey (USGS) and Montana Department of Environmental Quality (MDEQ) surface water monitoring for concentrations of contaminants of concern (COC) in the Clark Fork River Operable Unit (CFROU) in 2014. Data are summarized in scatterplot format by COC (arsenic, cadmium, copper, lead, and zinc) and by sample fraction (dissolved or total recoverable). The USGS data was acquired from USGS [2015]. The MDEQ data included in these summaries are those described in Section 2.0 of this monitoring report.

The U.S. Geological Survey (USGS) has been collecting surface water chemistry data in the upper Clark Fork River basin for several decades, with records from some sites extending back to at least 1969 [USGS, 2015]. In order to minimize data duplication, the MDEQ monitoring program has discontinued sampling at certain sites in the CFROU which were already sampled under the USGS monitoring program. Some sites continue to be monitored by both programs. This report includes preliminary data for COC metals (arsenic, cadmium, copper, lead, and zinc) from the 2014 USGS monitoring program at all available sites in the CFROU. Inclusion of both MDEQ and USGS monitoring data provides a more robust dataset to evaluate progress toward attainment of performance goals, improves the ability to evaluate spatial and temporal trends, and provides the ability to compare results from each program for quality control purposes.

USGS sample collection and analysis methods in 2014 were generally similar to those implemented in the MDEQ monitoring program. For example, both programs collected width- and depth-integrated samples following USGS methods [USGS, 2006] and dissolved samples were filtered at 0.45 µm pore size. However, there were minor differences in sample collection methods between the two programs. For example, the USGS program filters dissolved samples using a peristaltic pump whereas the MDEQ program filters dissolved samples using handheld syringes. Additionally, the USGS processes collected samples in an enclosed space whereas currently MDEQ samples are processed outside the sampling vehicles.

USGS data was downloaded from the USGS website on March 12, 2015 [USGS, 2015]. At that time, data results were preliminary and subject to revision pending internal quality control and quality assurance review. All USGS data included in this report should therefore be presumed as preliminary and therefore interpreted with caution.

L.2 RESULTS

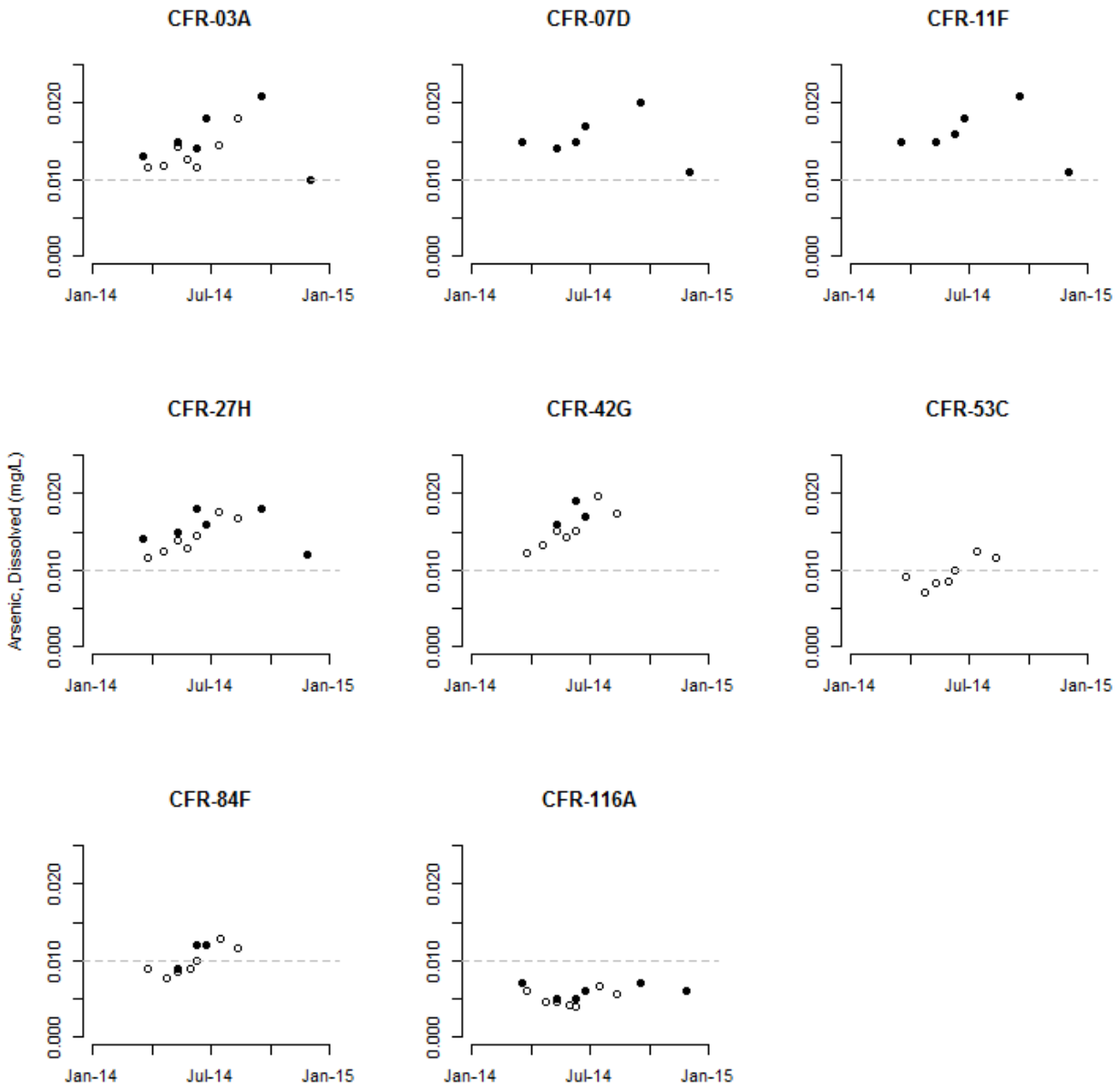


Figure L1. Dissolved arsenic concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents human health surface water standard [MDEQ, 2012].

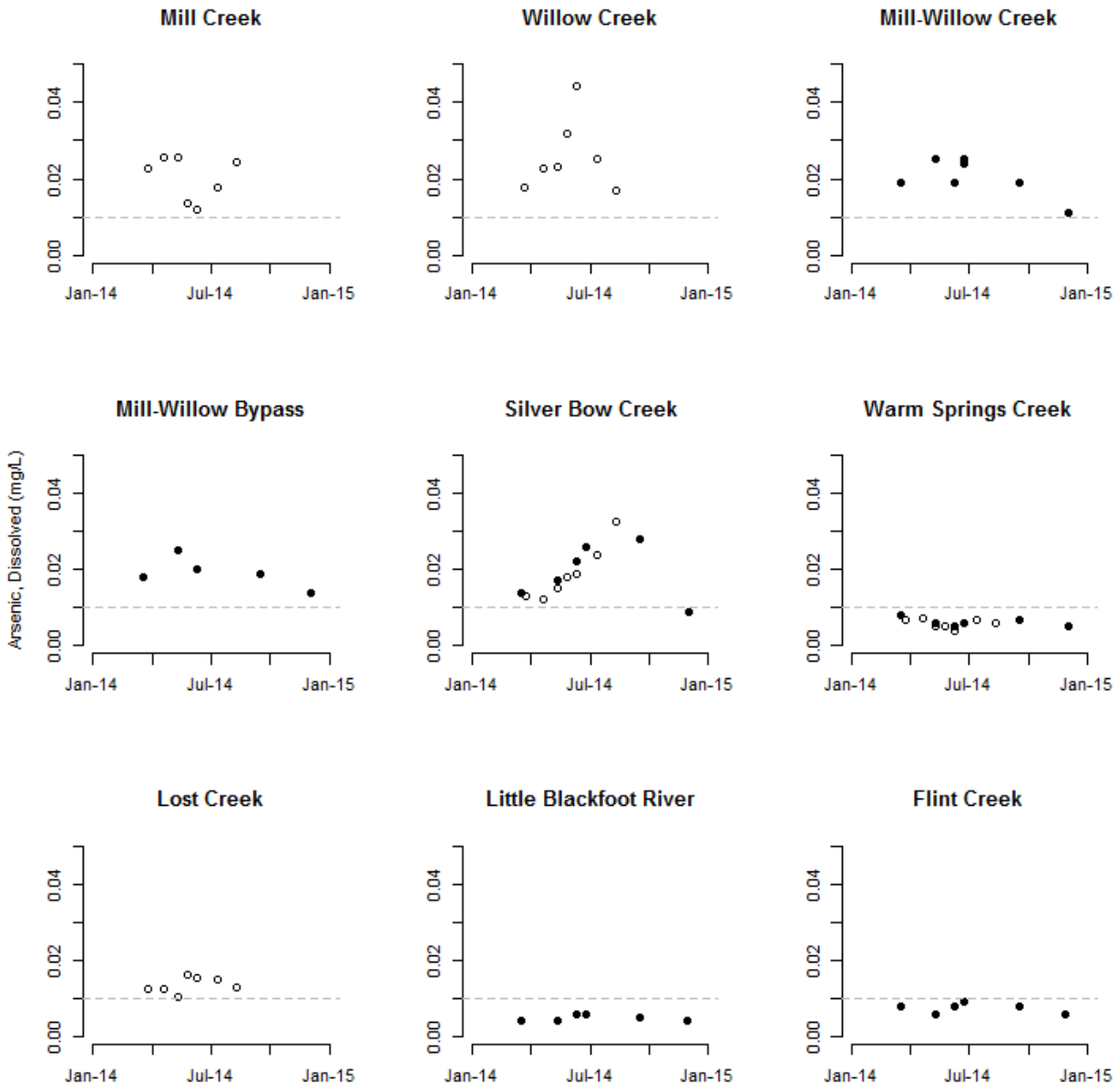


Figure L2. Dissolved arsenic concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents human health surface water standard [MDEQ, 2012].

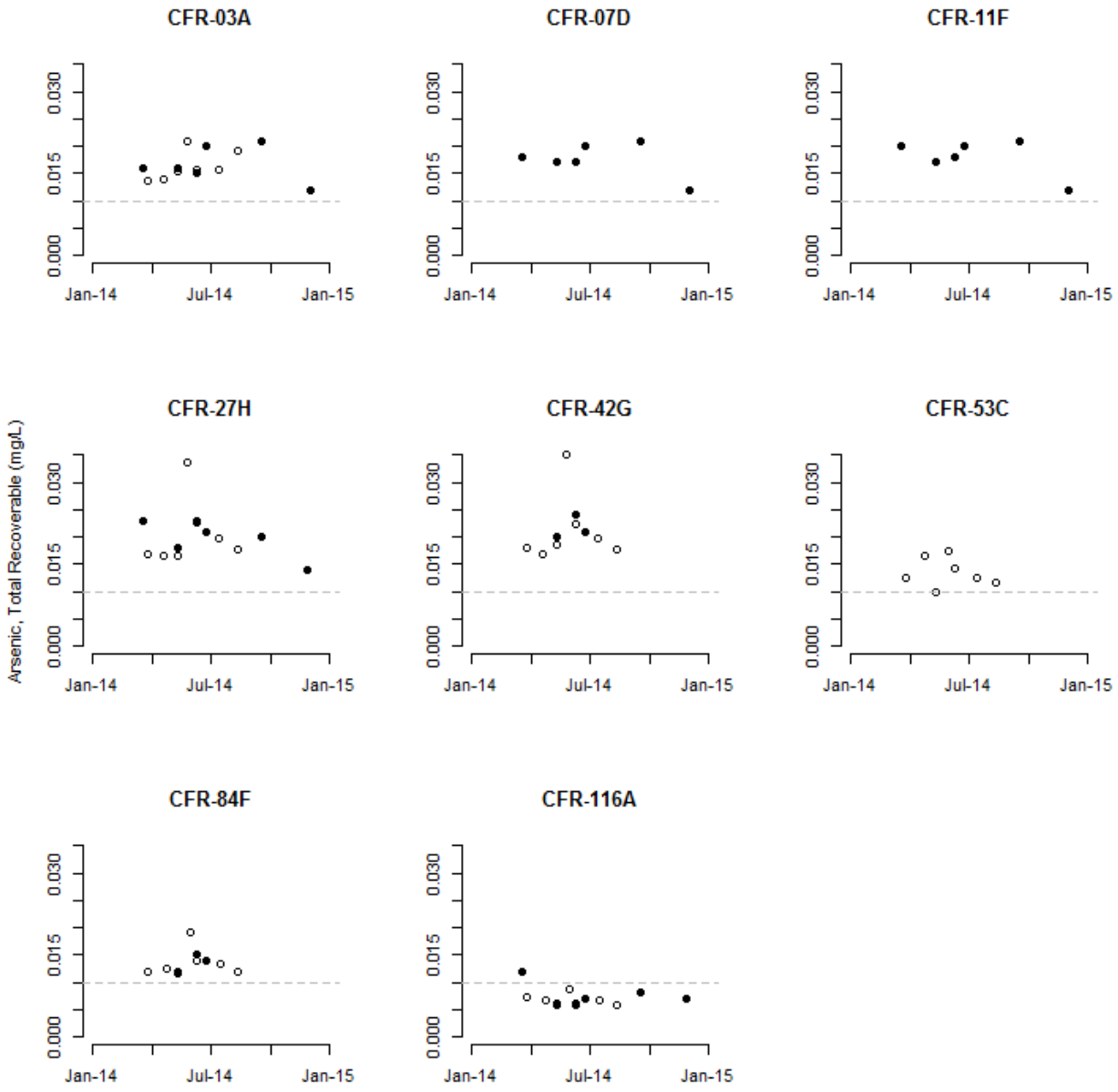


Figure L3. Total recoverable arsenic concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents human health surface water standard [MDEQ, 2012].

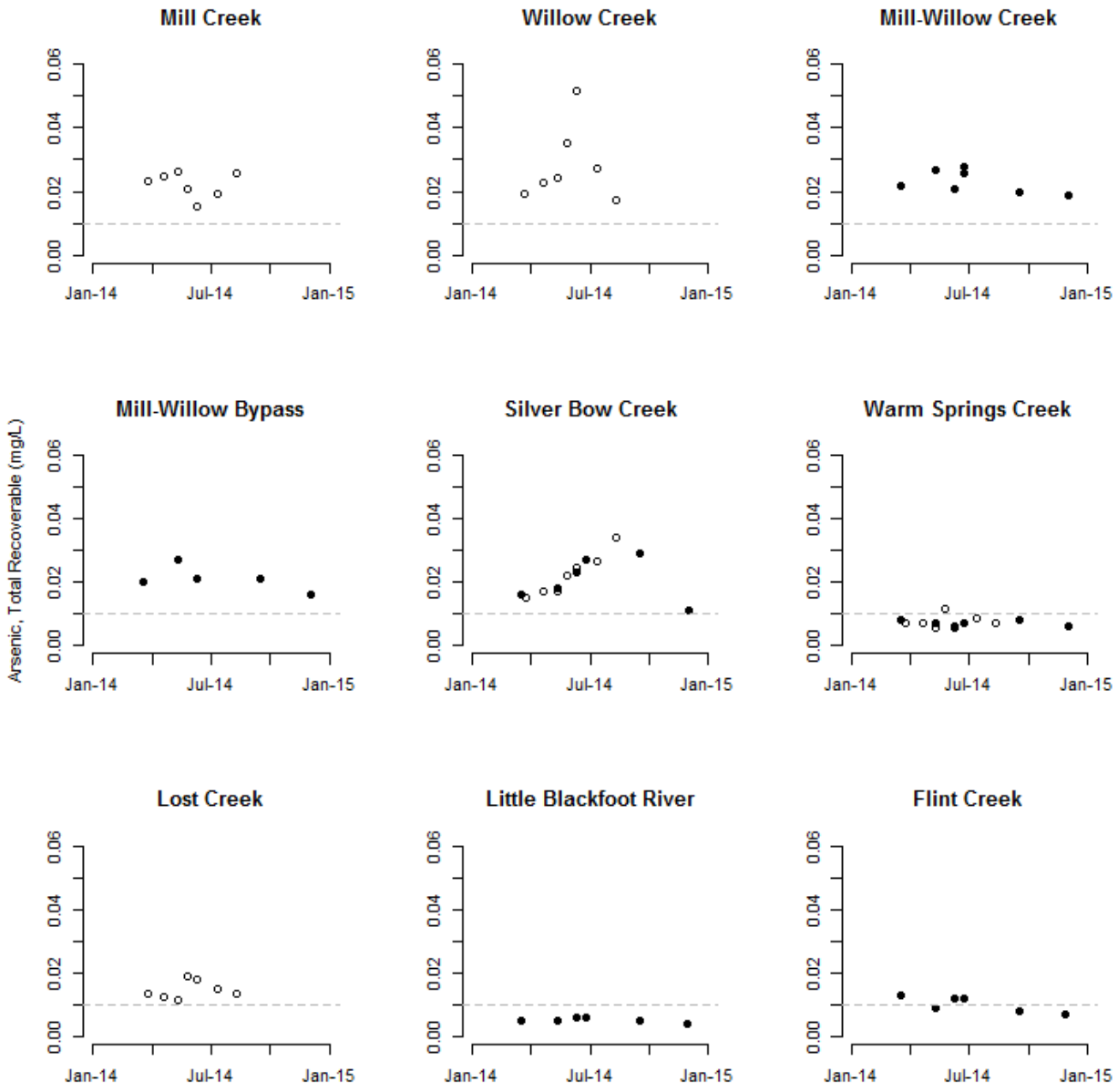


Figure L4. Total recoverable arsenic concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents human health surface water standard [MDEQ, 2012].

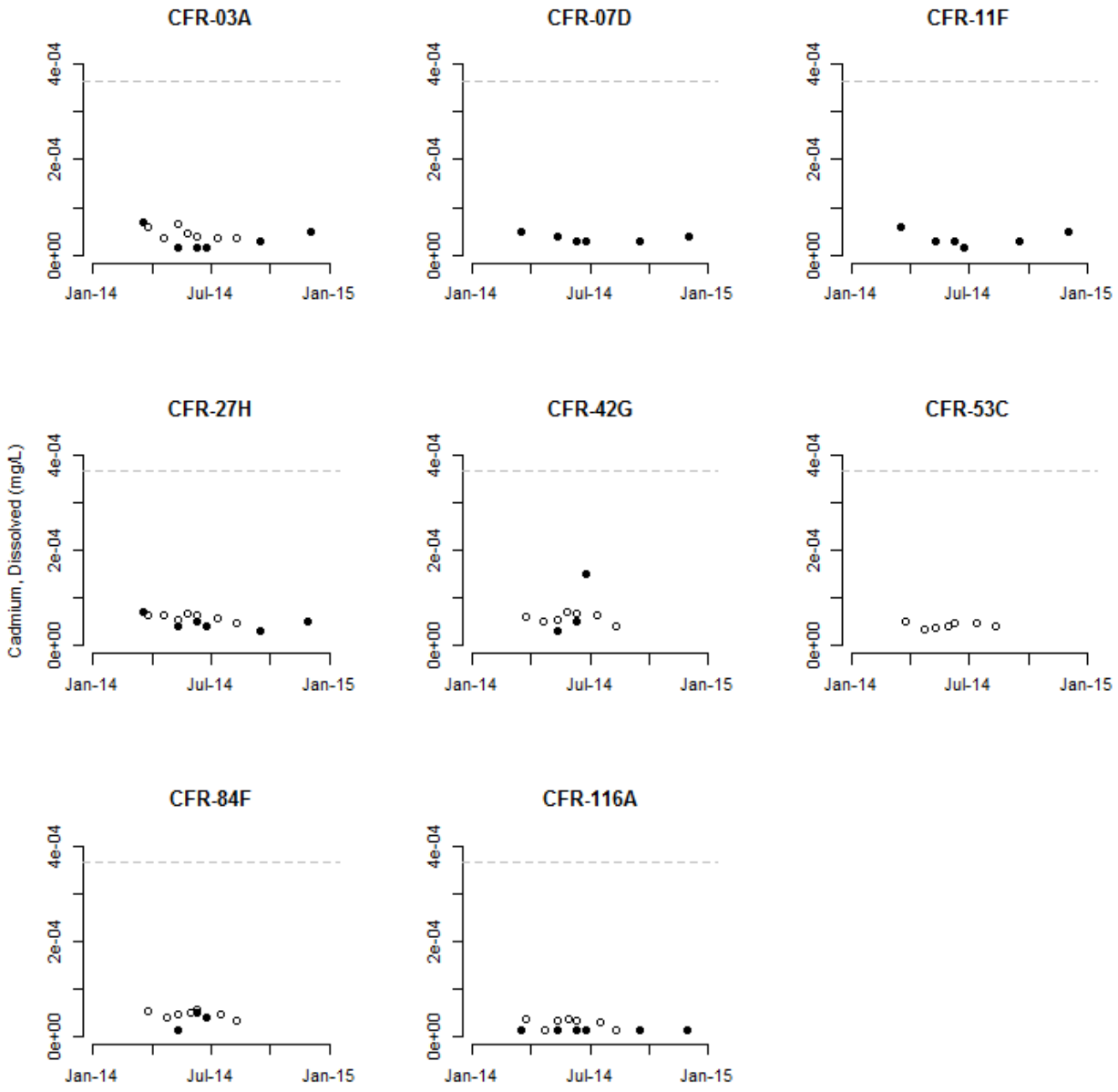


Figure L5. Dissolved cadmium concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

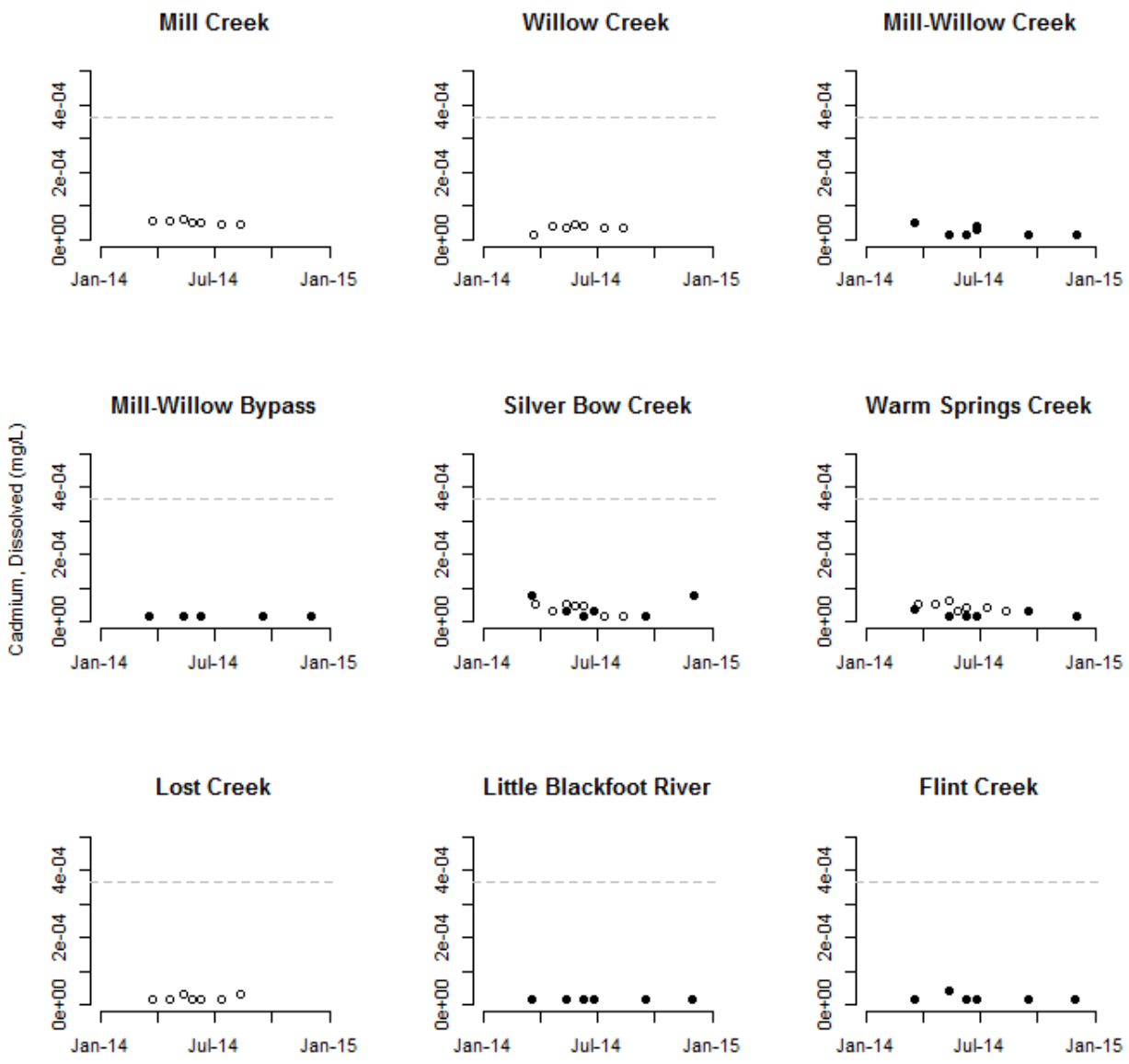


Figure L6. Dissolved cadmium concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

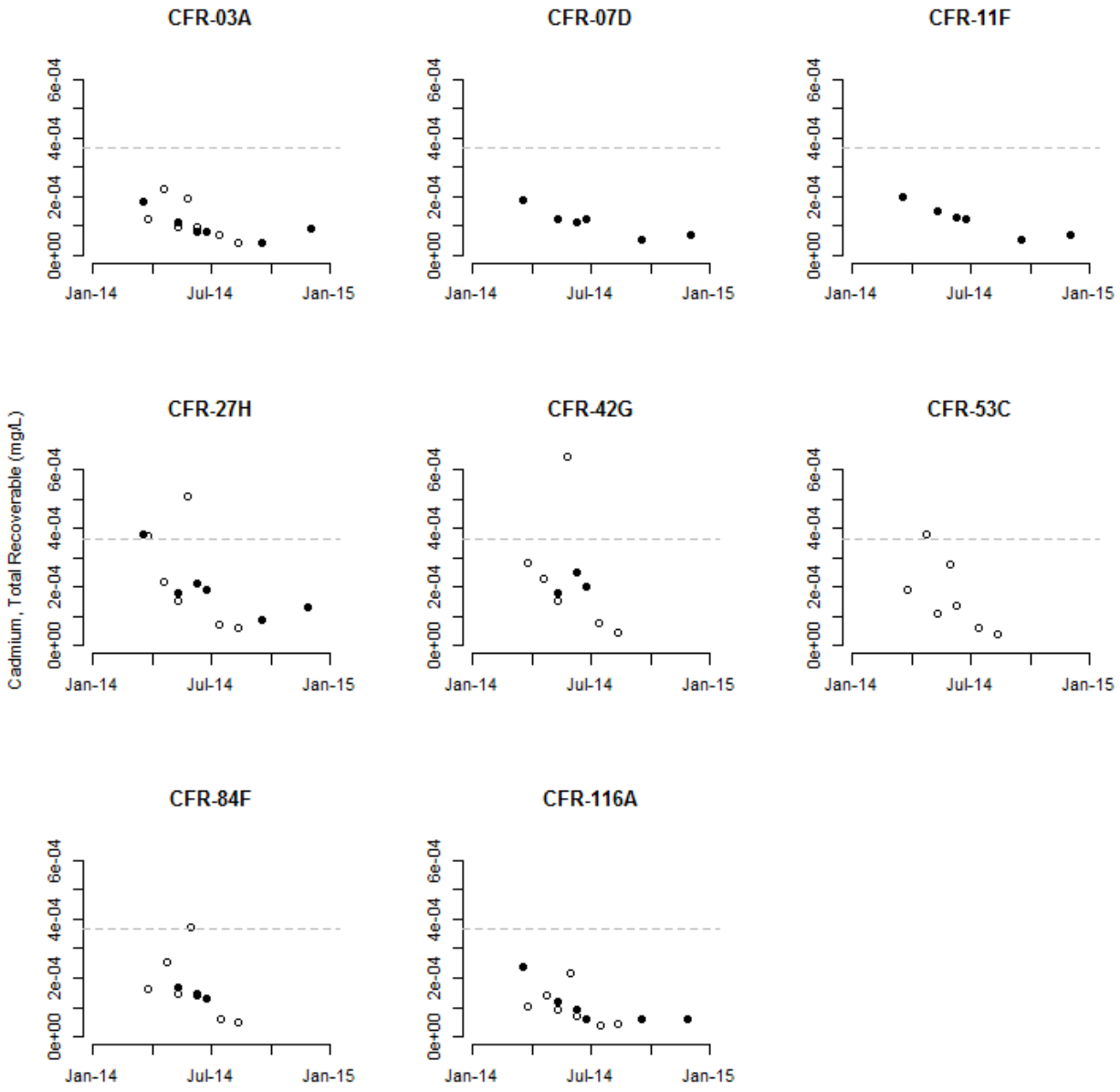


Figure L7. Total recoverable cadmium concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

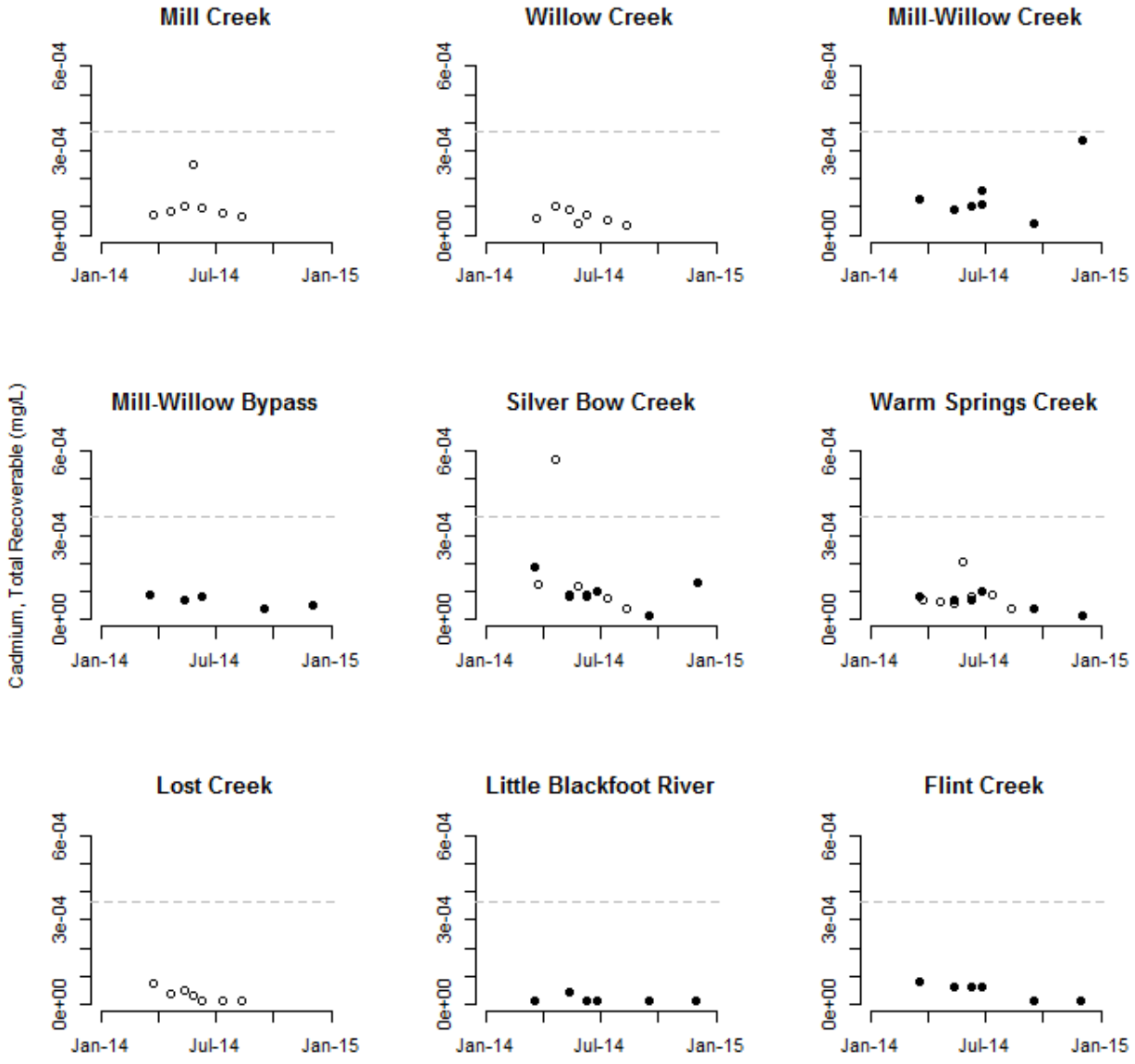


Figure L8. Total recoverable cadmium concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

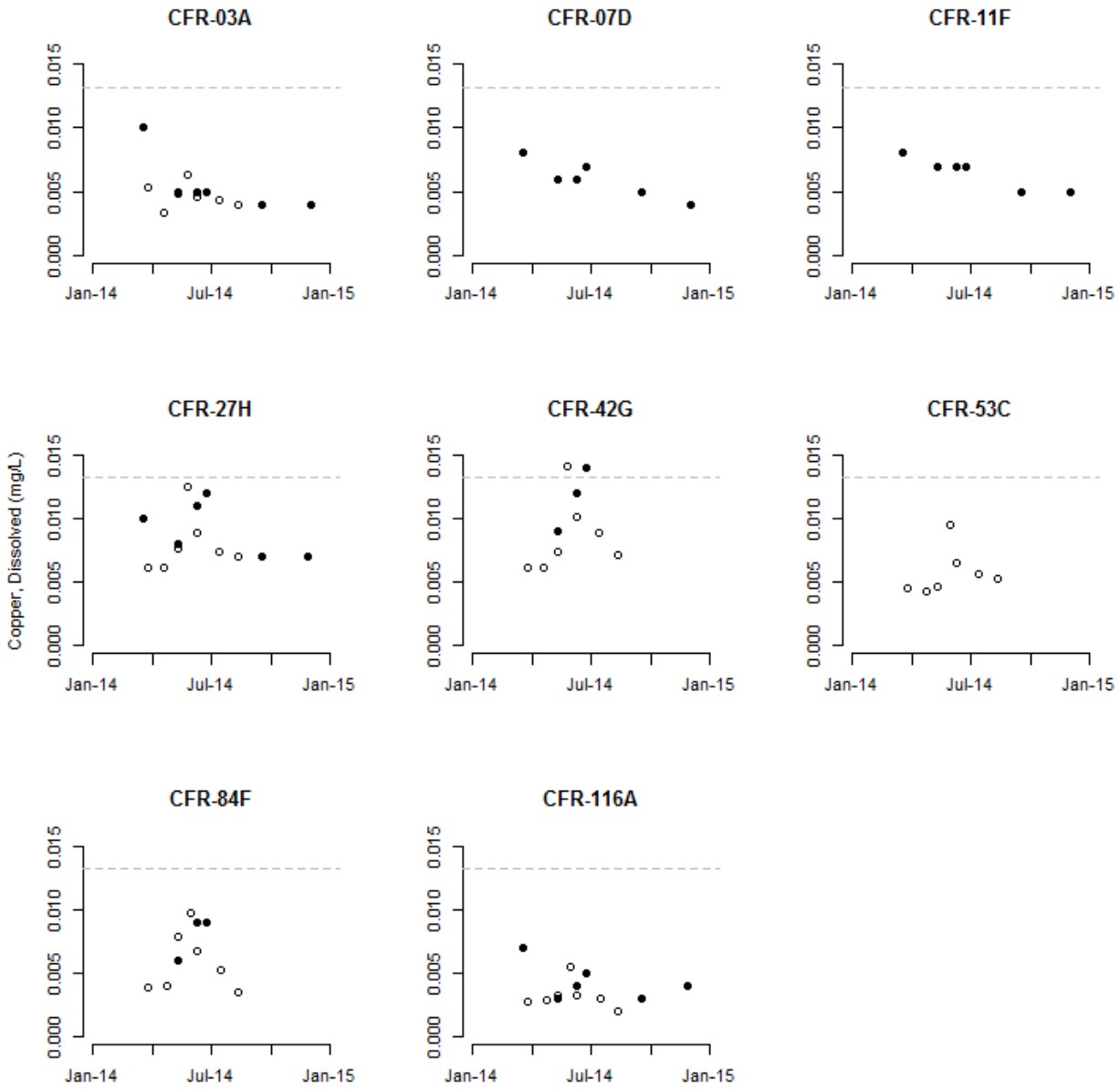


Figure L9. Dissolved copper concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

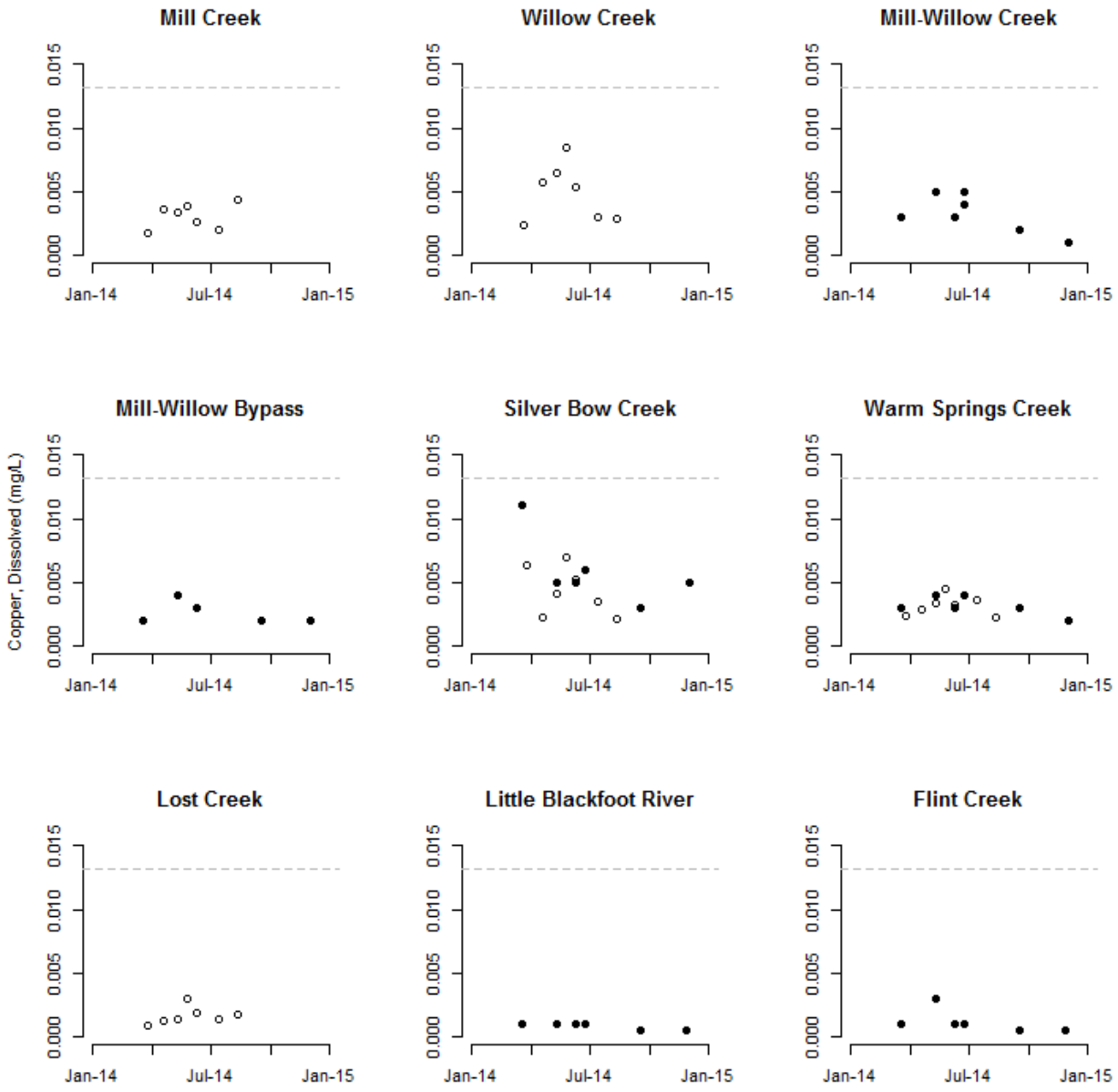


Figure L10. Dissolved copper concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

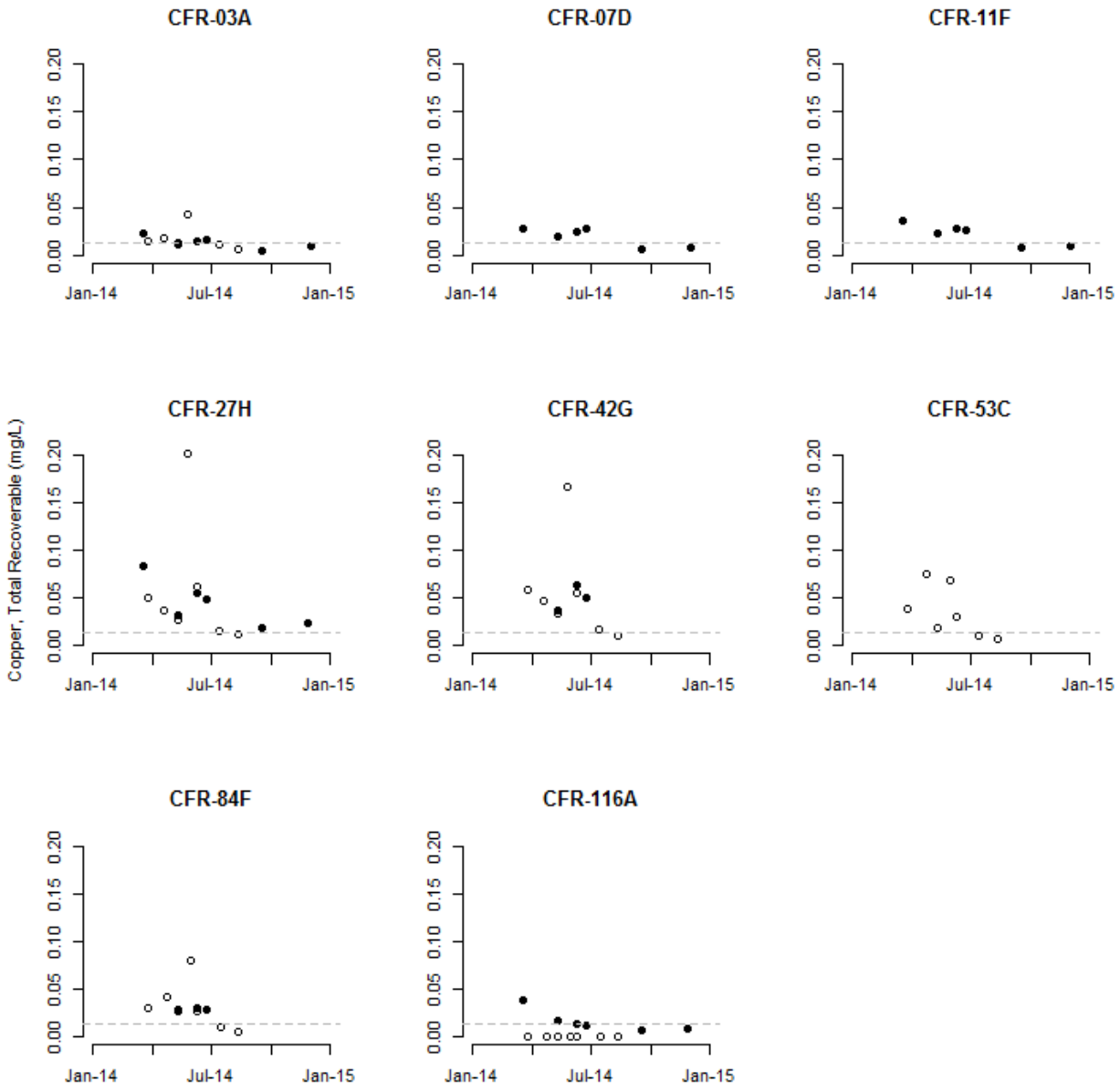


Figure L11. Total recoverable copper concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

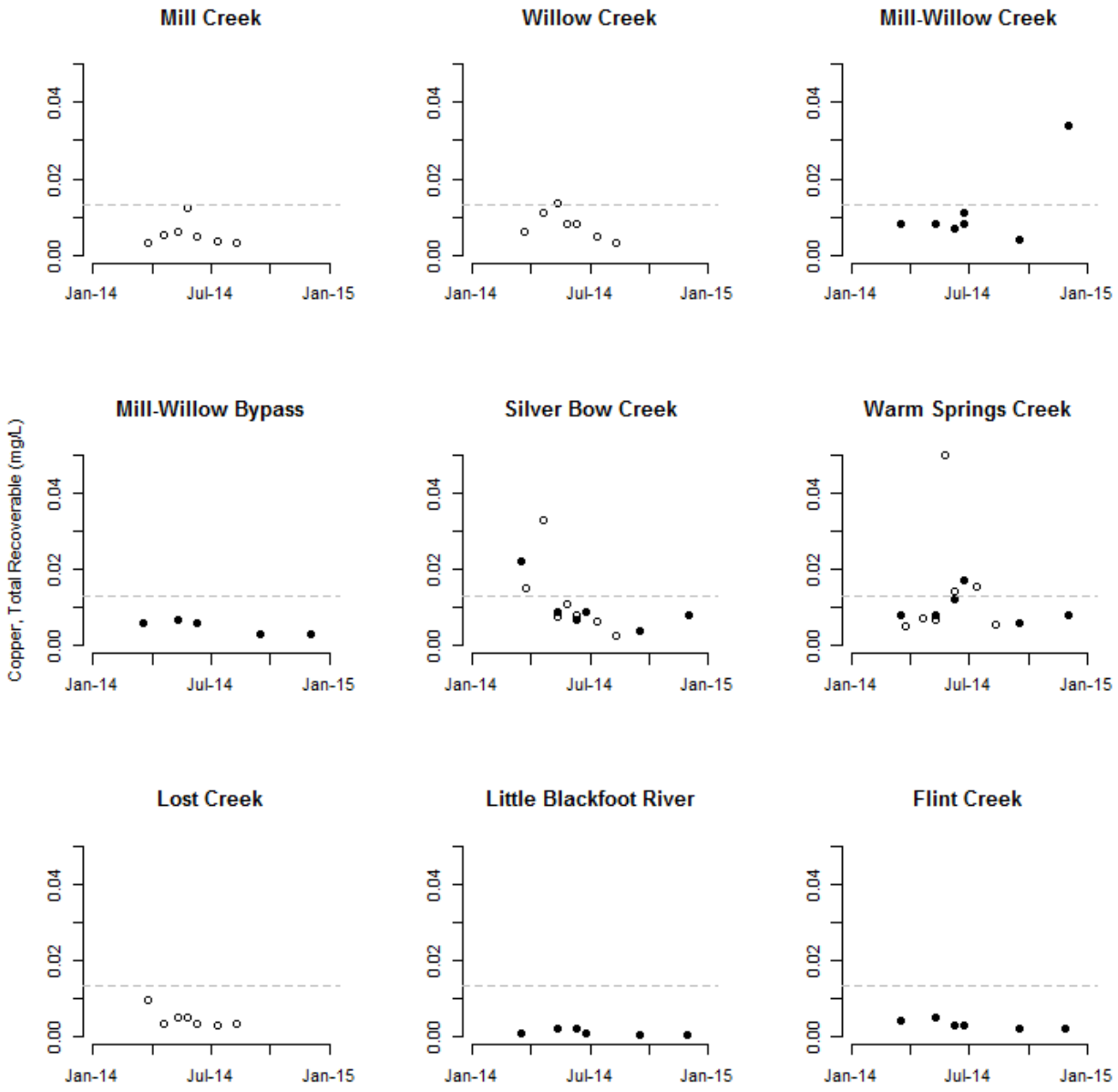


Figure L12. Total recoverable copper concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

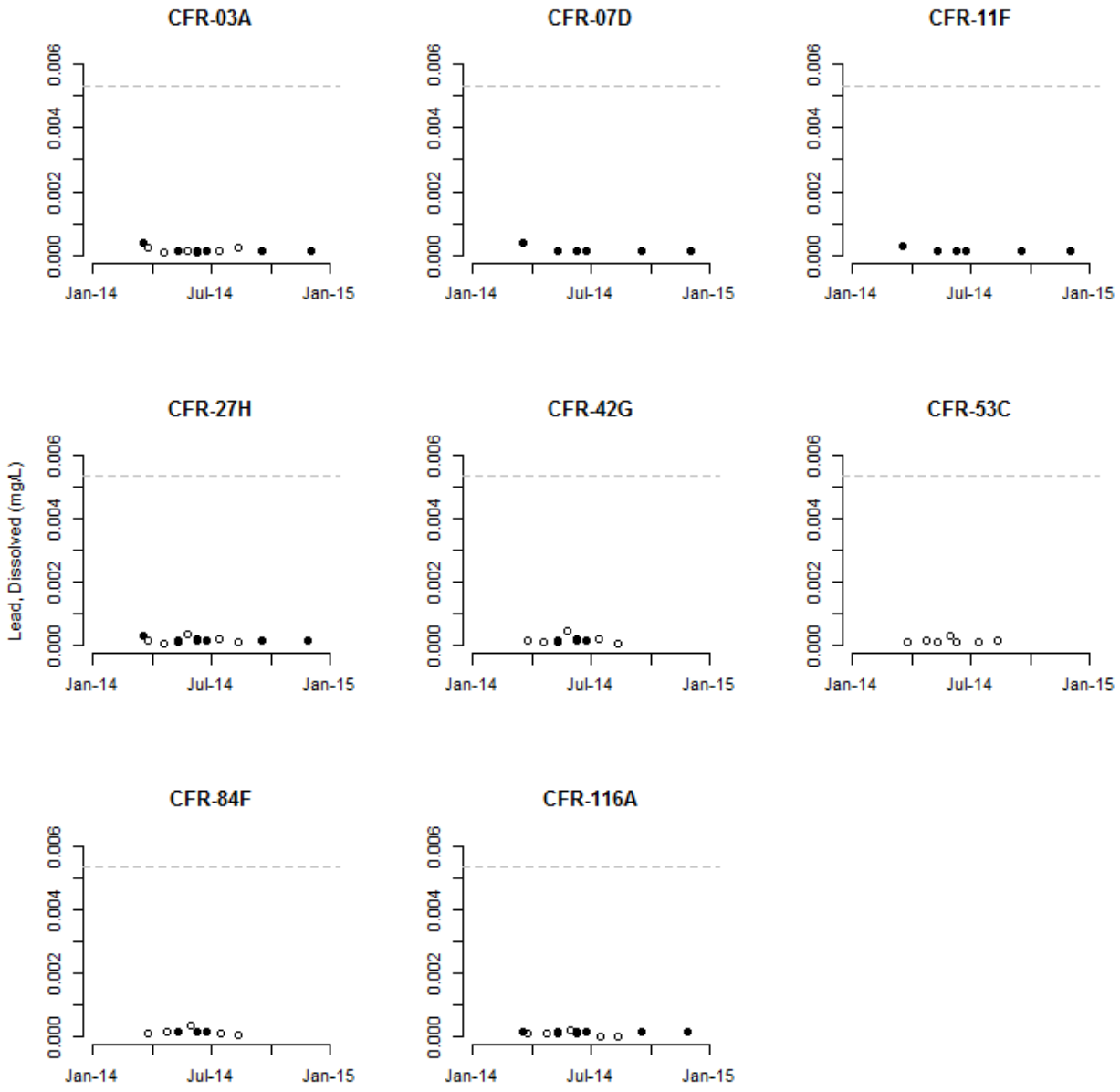


Figure L13. Dissolved lead concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

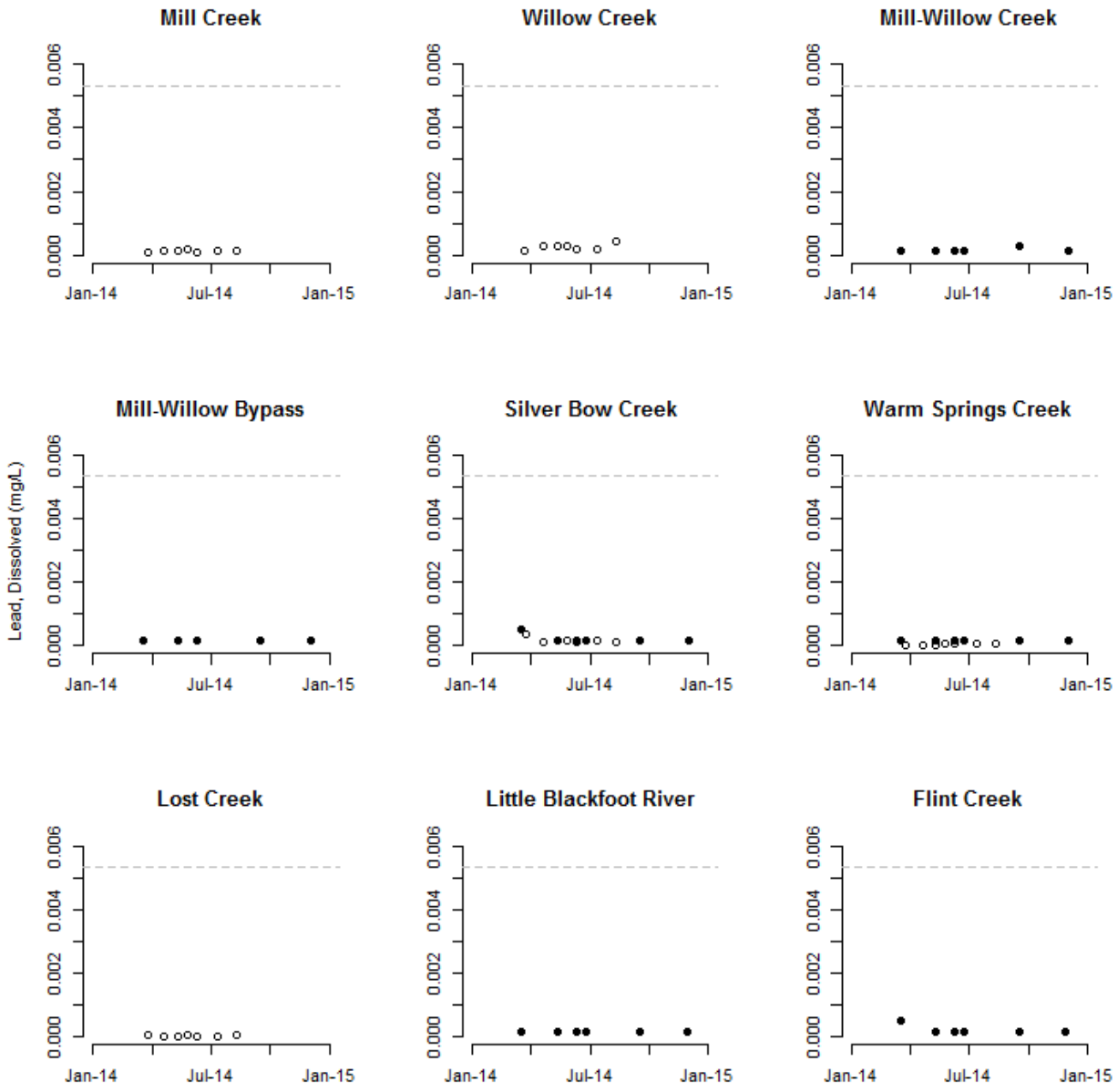


Figure L14. Dissolved lead concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

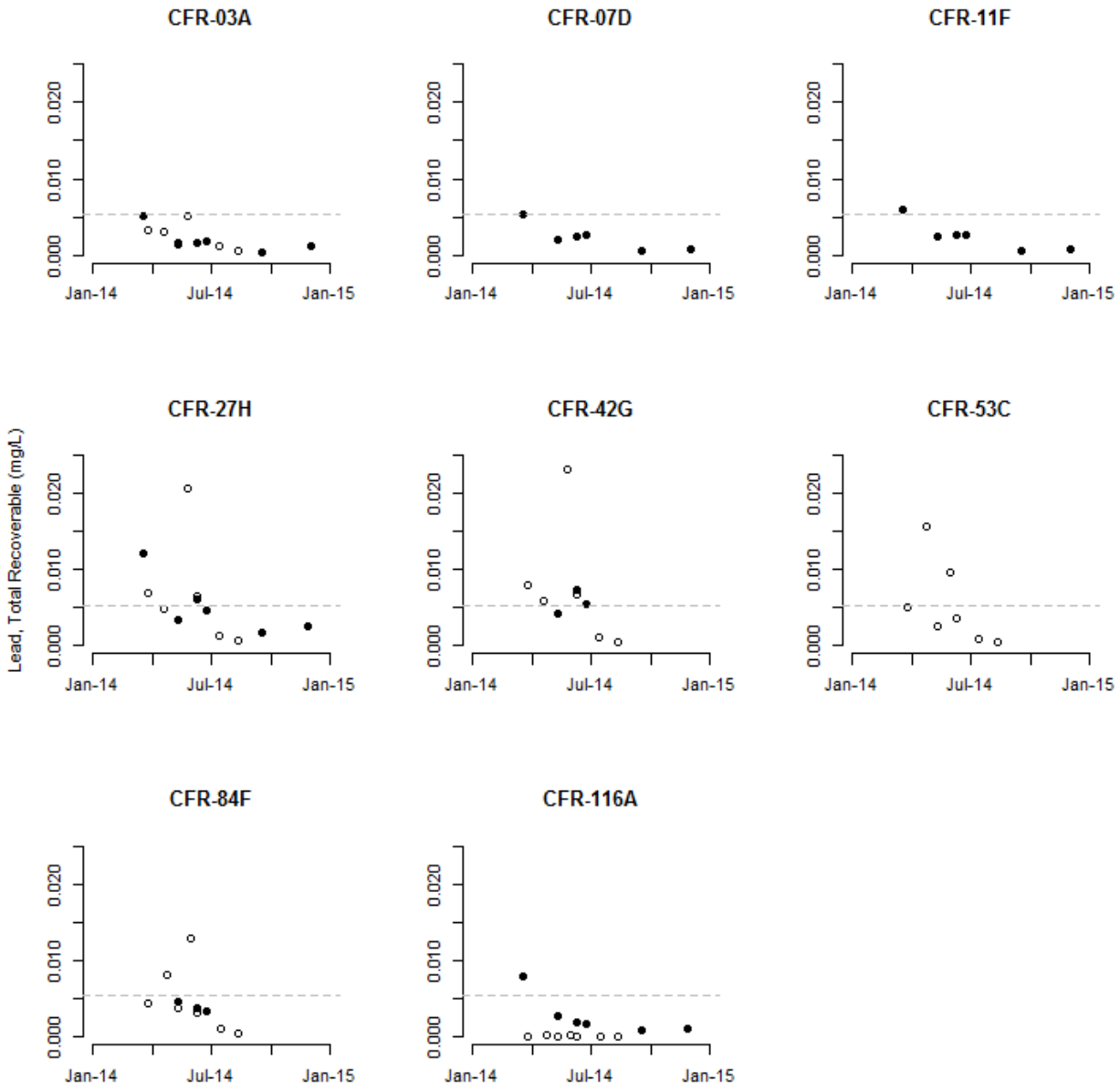


Figure L15. Total recoverable lead concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

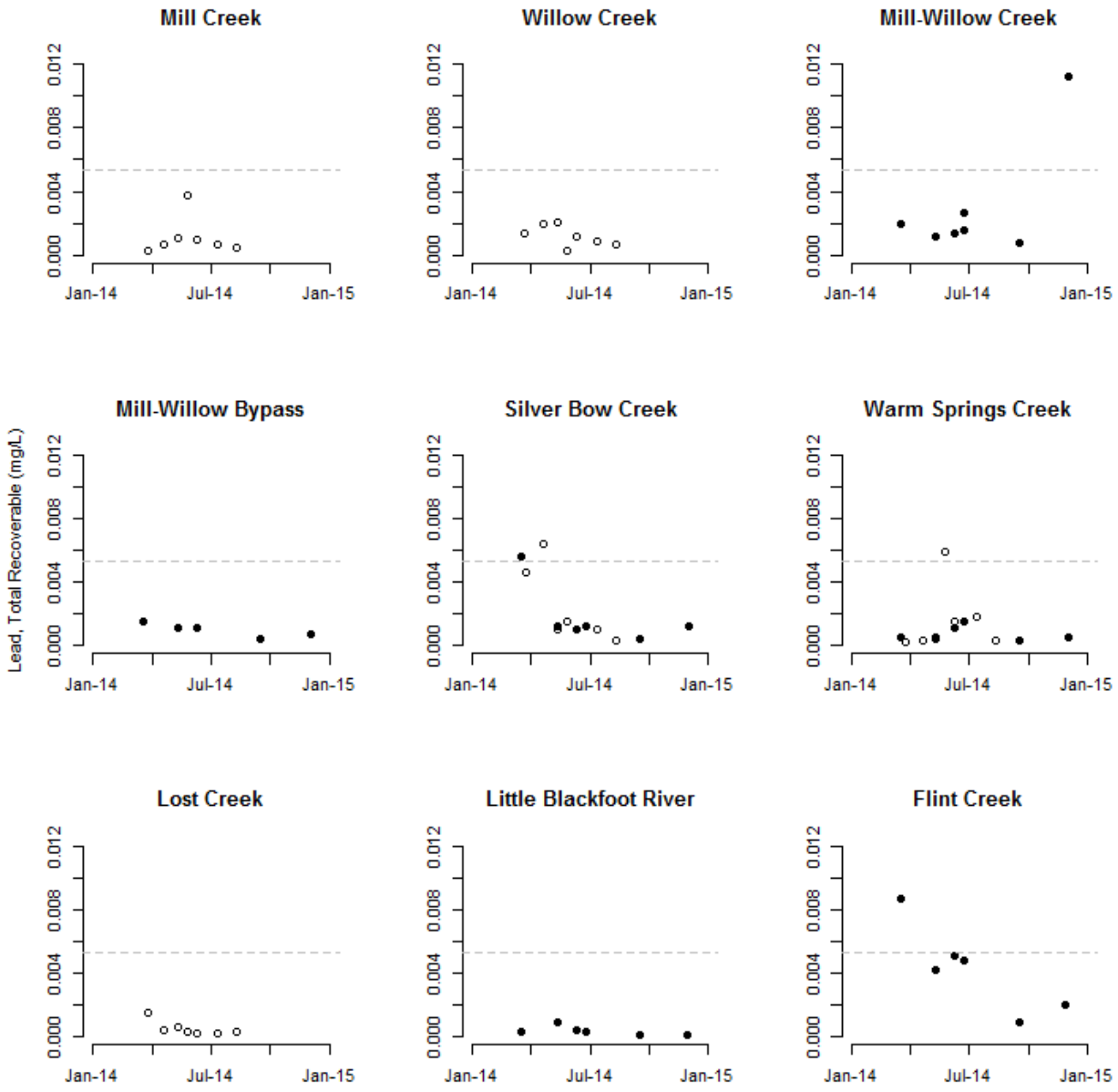


Figure L16. Total recoverable lead concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

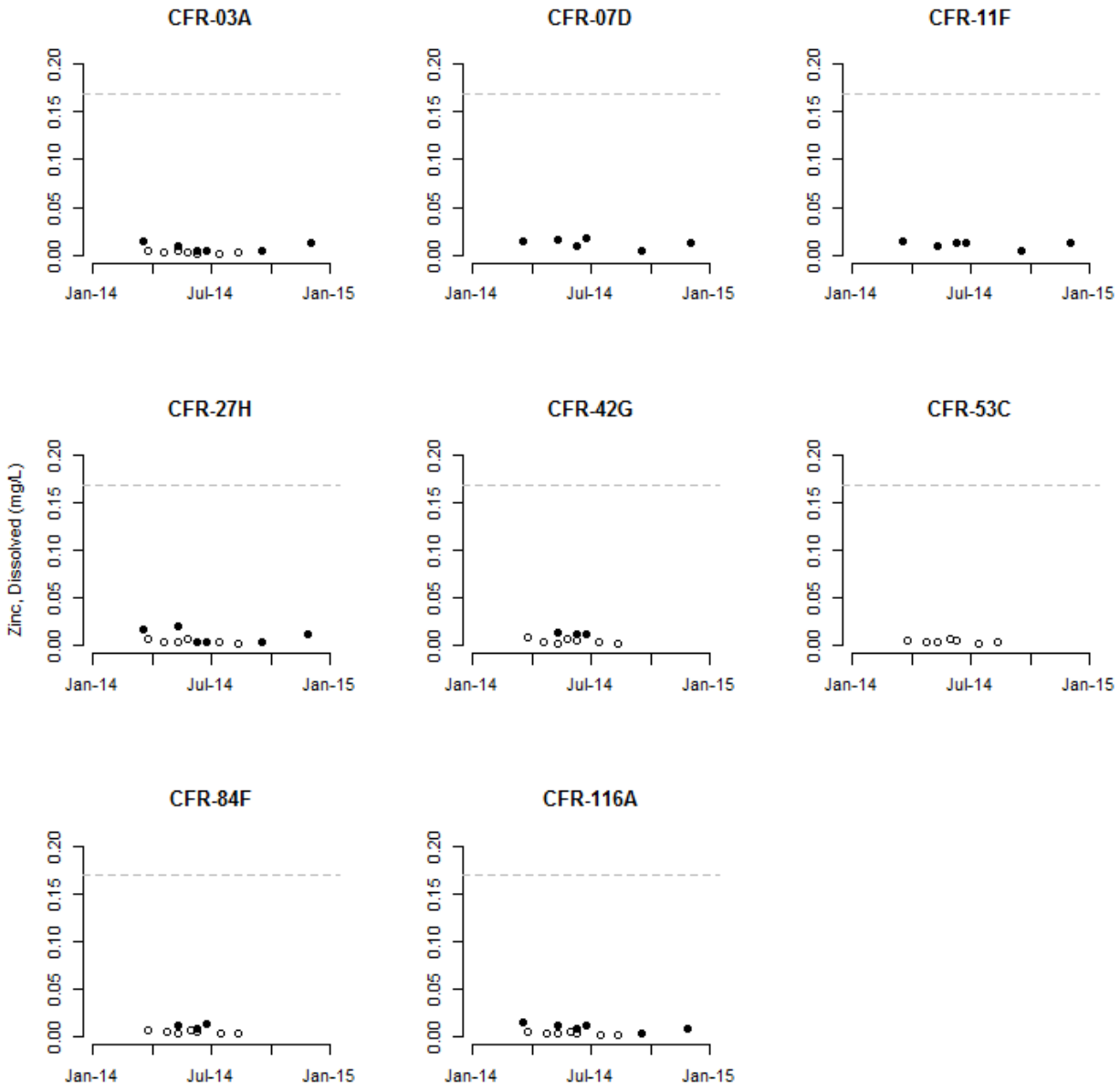


Figure L17. Dissolved zinc concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

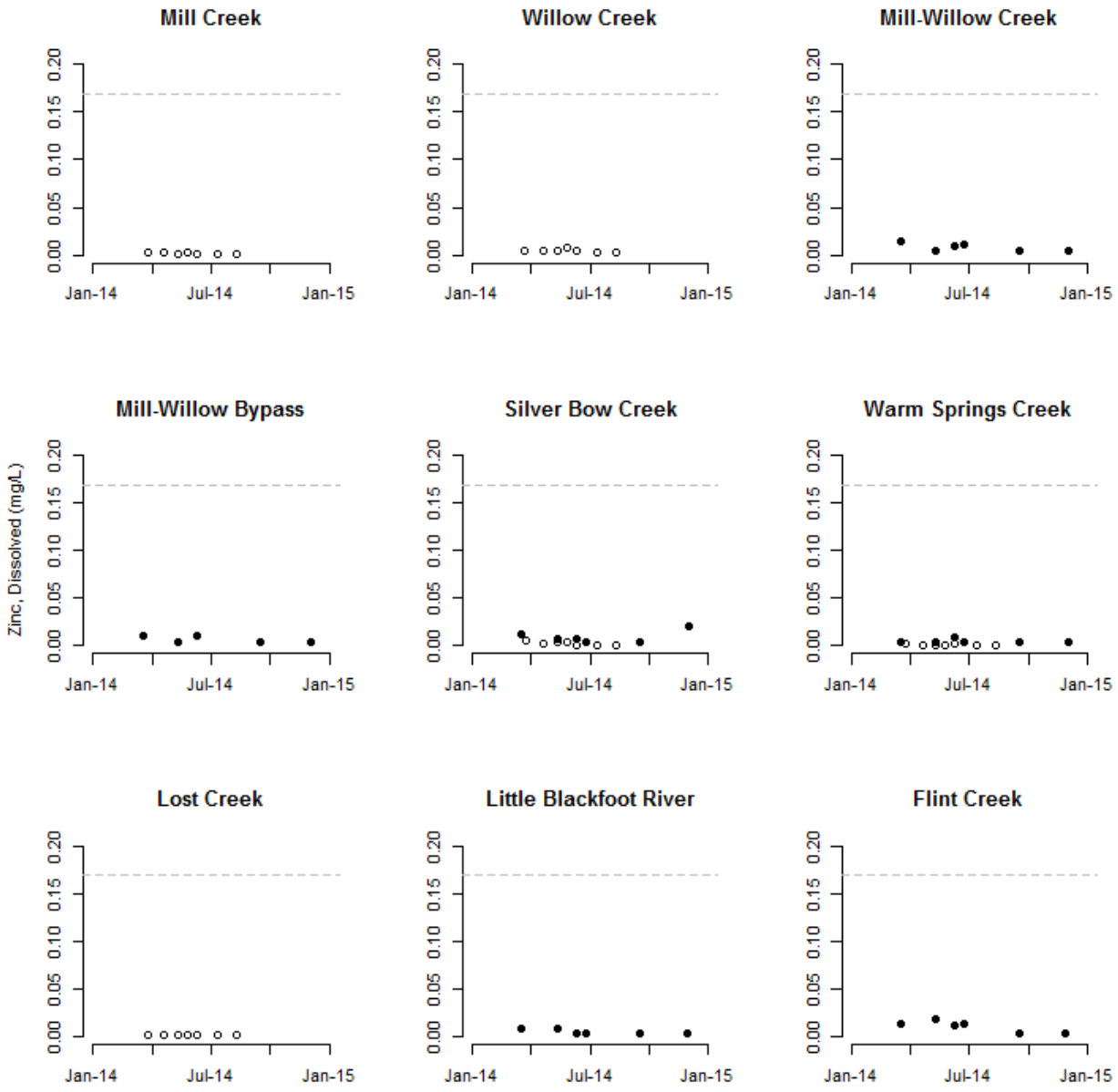


Figure L18. Dissolved zinc concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

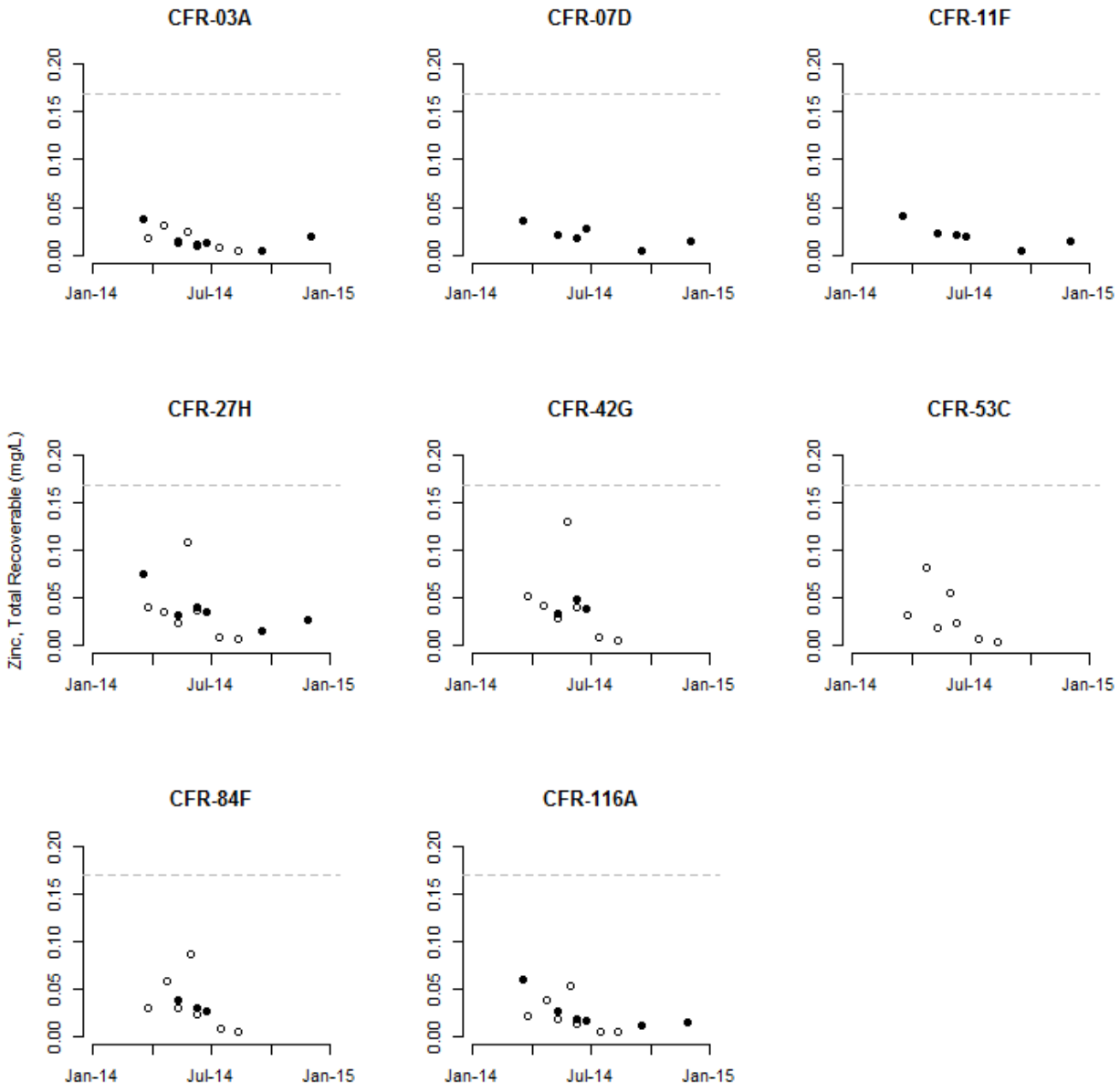


Figure L19. Total recoverable zinc concentrations in the upper Clark Fork River mainstem, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

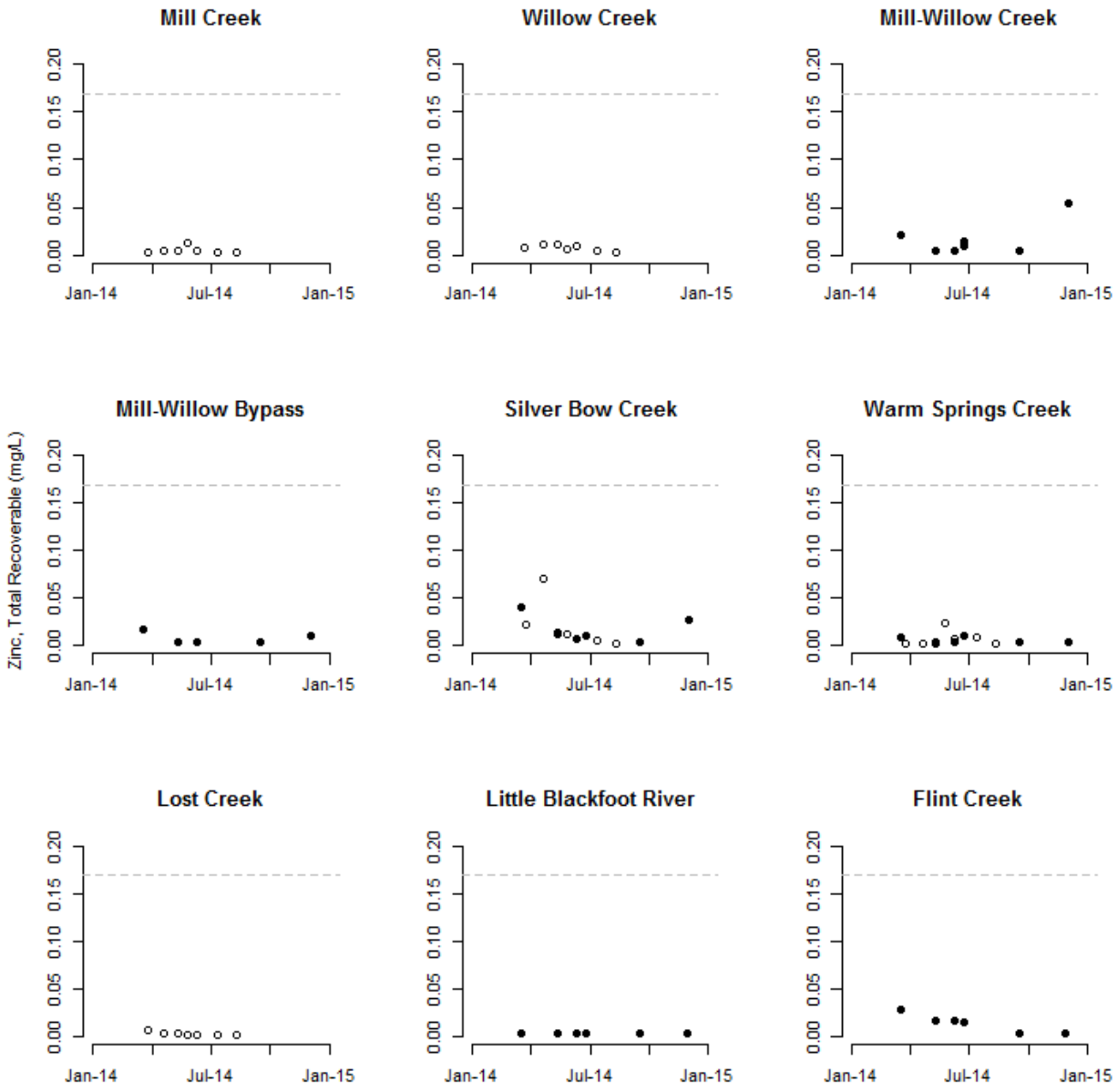


Figure L20. Total recoverable zinc concentrations in tributaries of the upper Clark Fork River, 2014. Data from the U.S. Geological Survey (white dots) and Montana Department of Environmental Quality (black dots) monitoring programs. Gray dashed line represents chronic aquatic life standard [MDEQ, 2012] assuming hardness of 150 mg/L as $CaCO_3$.

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MDEQ (Montana Department of Environmental Quality), 2012. C*ircular DEQ-7, Montana numeric water standards, Version 6.8,* prepared by MDEQ. Available: http://www.deq.mt.gov/wqinfo/Standards/default.mcpx. (February 11, 2014).

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