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11 August 2015

Curtis Hartenstein
Southern Ute Tribe Environmental
PO Box 737
Ignacio, CO 81137
RE: 8/8/15

Enclosed are the results of analyses for samples received by the laboratory on 08/08/15 16:00.
If you need any further assistance, please feel free to contact me.

Sincerely,

DRAFT REPORT
DATA SUBJECT TO CHANGE

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NAR6	1508098-01	Water	08/08/15 14:00	08/08/15 16:00
AR 7-2	1508098-02	Water	08/08/15 14:30	08/08/15 16:00
AR 16-0	1508098-03	Water	08/08/15 15:00	08/08/15 16:00
AR 19-3	1508098-04	Water	08/08/15 15:30	08/08/15 16:00
AR 16-0 Dupe	1508098-05	Water	08/08/15 15:00	08/08/15 16:00

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

NAR6

1508098-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	**82.0**	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**1.57**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**55.2**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	**173**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	**3.93**	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**8.44**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.145**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.67**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**12.2**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	<0.050	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**53.1**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	**166**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	<0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**8.03**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.022**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.24**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**12.0**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

NAR6

1508098-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	**0.0035**	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	**0.0700**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	**0.0003**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	<0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	**0.0006**	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	**0.0147**	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	**0.0532**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	**0.0017**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	**0.0022**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	**0.0011**	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	**0.0004**	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	**0.0002**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	**0.0825**	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	<0.0005	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	**0.0512**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	<0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	**0.0025**	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	**0.0001**	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	**0.0032**	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	<0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	**0.0011**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	**0.0019**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	<0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	**0.0002**	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	**0.0007**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	**0.0144**	0.0100	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

NAR6

1508098-01 (Water)

Analyte	**Result**	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 7-2

1508098-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	**75.0**	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**0.949**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**56.2**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	**175**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	**3.29**	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**8.37**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.129**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.56**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**11.4**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	<0.050	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**54.9**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	**171**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	<0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**8.16**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.025**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.33**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**11.4**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 7-2

1508098-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	**0.0032**	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	**0.0531**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	**0.0003**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	<0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	**0.0005**	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	**0.0135**	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	**0.0457**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	**0.0016**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	**0.0021**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	**0.0003**	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	**0.0001**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	**0.0811**	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	<0.0005	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	**0.0465**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	<0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	**0.0036**	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	**0.0001**	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	**0.0026**	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	**0.0013**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	**0.0011**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	**0.0017**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	<0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	**0.0002**	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	**0.0010**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	**0.0225**	0.0100	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 7-2

1508098-02 (Water)

Analyte	**Result**	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 16-0

1508098-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	**65.0**	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**0.708**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**54.0**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	**168**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	**2.52**	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**7.96**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.131**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.43**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**10.8**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**0.060**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**54.0**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	**167**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	<0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**7.91**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.048**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.20**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**11.0**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 16-0

1508098-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	**0.0027**	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	**0.0483**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	**0.0003**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	<0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	**0.0005**	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	**0.0109**	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	**0.0345**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	**0.0013**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	**0.0020**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	**0.0002**	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	<0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	**0.0691**	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	**0.0010**	0.0005	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	**0.0007**	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	**0.0432**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	<0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	**0.0030**	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	**0.0002**	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	**0.0029**	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	<0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	**0.0011**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	**0.0018**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	<0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	**0.0001**	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	**0.0009**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	**0.0139**	0.0010	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 16-0

1508098-03 (Water)

Analyte	**Result**	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 19-3

1508098-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	**70.0**	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**0.714**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**54.5**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	**169**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	**2.70**	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**8.01**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.153**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.34**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**10.5**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**0.085**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**54.1**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	**167**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	<0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**7.80**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.083**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.32**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**10.4**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 19-3

1508098-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	**0.0031**	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	**0.0512**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	**0.0003**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	<0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	**0.0006**	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	**0.0131**	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	**0.0377**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	**0.0013**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	**0.0022**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	**0.0013**	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	**0.0002**	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	<0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	**0.0845**	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	**0.0007**	0.0005	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	**0.0006**	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	**0.0474**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	<0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	**0.0016**	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	**0.0002**	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	**0.0028**	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	<0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	**0.0010**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	**0.0019**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	<0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	**0.0001**	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	**0.0005**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	**0.0157**	0.0010	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 19-3

1508098-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 16-0 Dupe

1508098-05 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	**64.0**	10.0		mg/L	1	08/11/15	2320 B		LLG
Alkalinity, Carbonate*	<10.0	10.0		mg/L	1	08/11/15	2320 B		LLG
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**0.654**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**54.0**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness, 200.2 Metals	**168**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	**2.57**	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**7.99**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.135**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.39**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**10.8**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**0.060**	0.050	0.020	mg/L	1	08/11/15	EPA200.7		JGS
Calcium*	**53.6**	0.020	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Hardness	**166**	0.462	0.140	mgCaCO3/L	1	08/11/15	2340 B		JGS
Iron*	<0.050	0.050	0.003	mg/L	1	08/11/15	EPA200.7		JGS
Magnesium*	**7.88**	0.100	0.032	mg/L	1	08/11/15	EPA200.7		JGS
Manganese*	**0.050**	0.005	0.0007	mg/L	1	08/11/15	EPA200.7		JGS
Potassium*	**2.23**	1.00	0.335	mg/L	1	08/11/15	EPA200.7		JGS
Sodium*	**10.9**	1.00	0.305	mg/L	1	08/11/15	EPA200.7		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 16-0 Dupe

1508098-05 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Antimony*	<0.0015	0.0015	0.00007	mg/L	1	08/11/15	EPA200.8		JGS
Arsenic*	**0.0026**	0.0015	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Barium*	**0.0541**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Cadmium*	**0.0003**	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Chromium*	<0.0010	0.0010	0.0002	mg/L	1	08/11/15	EPA200.8		JGS
Cobalt*	**0.0005**	0.0001	0.000006	mg/L	1	08/11/15	EPA200.8		JGS
Copper*	**0.0115**	0.0001	0.00006	mg/L	1	08/11/15	EPA200.8		JGS
Lead*	**0.0353**	0.0005	0.00004	mg/L	1	08/11/15	EPA200.8		JGS
Molybdenum*	**0.0013**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Nickel*	**0.0021**	0.0005	0.00002	mg/L	1	08/11/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/11/15	EPA200.8		JGS
Silver*	**0.0002**	0.0001	0.00003	mg/L	1	08/11/15	EPA200.8		JGS
Thallium*	<0.0001	0.0001	0.00001	mg/L	1	08/11/15	EPA200.8		JGS
Zinc*	**0.0711**	0.0010	0.0004	mg/L	1	08/11/15	EPA200.8		JGS
Dissolved Metals by ICPMS									
Antimony*	**0.0005**	0.0005	0.00007	mg/L	1	08/10/15	EPA200.8		JGS
Arsenic*	**0.0007**	0.0005	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Barium*	**0.0493**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Beryllium*	<0.0005	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Cadmium*	<0.0001	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Chromium*	**0.0028**	0.0010	0.0002	mg/L	1	08/10/15	EPA200.8		JGS
Cobalt*	**0.0003**	0.0001	0.000006	mg/L	1	08/10/15	EPA200.8		JGS
Copper*	**0.0029**	0.0001	0.00006	mg/L	1	08/10/15	EPA200.8		JGS
Lead*	<0.0005	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Molybdenum*	**0.0010**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Nickel*	**0.0023**	0.0005	0.00002	mg/L	1	08/10/15	EPA200.8		JGS
Selenium*	<0.0010	0.0010	0.0003	mg/L	1	08/10/15	EPA200.8		JGS
Silver*	<0.0001	0.0001	0.00003	mg/L	1	08/10/15	EPA200.8		JGS
Thallium*	**0.0001**	0.0001	0.00001	mg/L	1	08/10/15	EPA200.8		JGS
Vanadium*	**0.0008**	0.0005	0.00004	mg/L	1	08/10/15	EPA200.8		JGS
Zinc*	**0.0280**	0.0010	0.0004	mg/L	1	08/10/15	EPA200.8		JGS

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

AR 16-0 Dupe

1508098-05 (Water)

Analyte	**Result**	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/10/15	245.1		JGS

DRAFT REPORT

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508089 - EPA 200.2										
Blank (B508089-BLK1)				Prepared & Analyzed: 08/11/15						
Aluminum	ND	0.050	mg/L							
Calcium	0.023	0.020	mg/L							B1
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Manganese	ND	0.005	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B508089-BS1)				Prepared & Analyzed: 08/11/15						
Aluminum	4.07	0.050	mg/L	4.00		102	85-115			
Calcium	4.11	0.020	mg/L	4.00		103	85-115			
Iron	3.93	0.050	mg/L	4.00		98.3	85-115			
Magnesium	21.0	0.100	mg/L	20.0		105	85-115			
Manganese	2.07	0.005	mg/L	2.00		104	85-115			
Potassium	8.34	1.00	mg/L	8.00		104	85-115			
Sodium	6.52	1.00	mg/L	6.48		101	85-115			
LCS Dup (B508089-BSD1)				Prepared & Analyzed: 08/11/15						
Aluminum	4.00	0.050	mg/L	4.00		100	85-115	1.64	20	
Calcium	4.02	0.020	mg/L	4.00		101	85-115	2.22	20	
Iron	3.91	0.050	mg/L	4.00		97.7	85-115	0.694	20	
Magnesium	20.5	0.100	mg/L	20.0		103	85-115	2.44	20	
Manganese	2.03	0.005	mg/L	2.00		102	85-115	1.95	20	
Potassium	8.08	1.00	mg/L	8.00		101	85-115	3.06	20	
Sodium	6.39	1.00	mg/L	6.48		98.7	85-115	1.89	20	

DRAFT REPORT

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DRAFT REPORT, DATA SUBJECT TO CHANGE

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www.GreenAnalytical.com

Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508091 - Dissolved Metals, E200.7/E200.8										
Blank (B508091-BLK1)				Prepared & Analyzed: 08/11/15						
Aluminum	ND	0.050	mg/L							
Calcium	ND	0.020	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	0.100	mg/L							
Manganese	ND	0.005	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B508091-BS1)				Prepared & Analyzed: 08/11/15						
Aluminum	4.89	0.050	mg/L	5.00		97.8	85-115			
Calcium	4.94	0.020	mg/L	5.00		98.8	85-115			
Iron	4.72	0.050	mg/L	5.00		94.5	85-115			
Magnesium	25.2	0.100	mg/L	25.0		101	85-115			
Manganese	2.48	0.005	mg/L	2.50		99.3	85-115			
Potassium	9.97	1.00	mg/L	10.0		99.7	85-115			
Sodium	7.80	1.00	mg/L	8.10		96.3	85-115			
LCS Dup (B508091-BSD1)				Prepared & Analyzed: 08/11/15						
Aluminum	4.99	0.050	mg/L	5.00		99.8	85-115	1.98	20	
Calcium	5.03	0.020	mg/L	5.00		101	85-115	1.92	20	
Iron	4.83	0.050	mg/L	5.00		96.5	85-115	2.15	20	
Magnesium	25.7	0.100	mg/L	25.0		103	85-115	2.02	20	
Manganese	2.52	0.005	mg/L	2.50		101	85-115	1.61	20	
Potassium	10.1	1.00	mg/L	10.0		101	85-115	1.13	20	
Sodium	7.93	1.00	mg/L	8.10		98.0	85-115	1.71	20	

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508090 - EPA 200.2M										
Blank (B508090-BLK1)				Prepared & Analyzed: 08/11/15						
Antimony	0.0009	0.0005	mg/L							B3
Arsenic	0.0007	0.0005	mg/L							B3
Barium	ND	0.0005	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0001	mg/L							
Chromium	ND	0.0010	mg/L							
Cobalt	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Nickel	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Silver	ND	0.0001	mg/L							
Thallium	ND	0.0001	mg/L							
Zinc	ND	0.0010	mg/L							
LCS (B508090-BS1)				Prepared & Analyzed: 08/11/15						
Antimony	0.0574	0.0005	mg/L	0.0500		115	85-115			
Arsenic	0.0536	0.0005	mg/L	0.0500		107	85-115			
Barium	0.0494	0.0005	mg/L	0.0500		98.8	85-115			
Beryllium	0.0532	0.0005	mg/L	0.0500		106	85-115			
Cadmium	0.0513	0.0001	mg/L	0.0500		103	85-115			
Chromium	0.0533	0.0010	mg/L	0.0500		107	85-115			
Cobalt	0.0523	0.0001	mg/L	0.0500		105	85-115			
Copper	0.0522	0.0001	mg/L	0.0500		104	85-115			
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115			
Molybdenum	0.0524	0.0005	mg/L	0.0500		105	85-115			
Nickel	0.0499	0.0005	mg/L	0.0500		99.9	85-115			
Selenium	0.256	0.0010	mg/L	0.250		102	85-115			
Silver	0.0473	0.0001	mg/L	0.0500		94.5	85-115			
Thallium	0.0454	0.0001	mg/L	0.0500		90.8	85-115			
Zinc	0.0546	0.0010	mg/L	0.0500		109	75-125			

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508090 - EPA 200.2M										
LCS Dup (B508090-BSD1)				Prepared & Analyzed: 08/11/15						
Antimony	0.0575	0.0005	mg/L	0.0500		115	85-115	0.0865	20	
Arsenic	0.0523	0.0005	mg/L	0.0500		105	85-115	2.42	20	
Barium	0.0486	0.0005	mg/L	0.0500		97.2	85-115	1.65	20	
Beryllium	0.0518	0.0005	mg/L	0.0500		104	85-115	2.75	20	
Cadmium	0.0494	0.0001	mg/L	0.0500		98.9	85-115	3.74	20	
Chromium	0.0525	0.0010	mg/L	0.0500		105	85-115	1.36	20	
Cobalt	0.0510	0.0001	mg/L	0.0500		102	85-115	2.60	20	
Copper	0.0489	0.0001	mg/L	0.0500		97.8	85-115	6.63	20	
Lead	0.0486	0.0005	mg/L	0.0500		97.2	85-115	0.592	20	
Molybdenum	0.0524	0.0005	mg/L	0.0500		105	85-115	0.0928	20	
Nickel	0.0501	0.0005	mg/L	0.0500		100	85-115	0.361	20	
Selenium	0.253	0.0010	mg/L	0.250		101	85-115	1.13	20	
Silver	0.0481	0.0001	mg/L	0.0500		96.2	85-115	1.72	20	
Thallium	0.0456	0.0001	mg/L	0.0500		91.2	85-115	0.407	20	
Zinc	0.0527	0.0010	mg/L	0.0500		105	75-125	3.46	20	

DRAFT REPORT

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508081 - Dissolved Metals, E200.7/E200.8										
Blank (B508081-BLK1)				Prepared & Analyzed: 08/10/15						
Antimony	0.0008	0.0005	mg/L							B3
Arsenic	ND	0.0005	mg/L							
Barium	ND	0.0005	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0001	mg/L							
Chromium	ND	0.0010	mg/L							
Cobalt	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Molybdenum	ND	0.0005	mg/L							
Nickel	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							
Silver	ND	0.0001	mg/L							
Thallium	ND	0.0001	mg/L							
Vanadium	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							
LCS (B508081-BS1)				Prepared & Analyzed: 08/10/15						
Antimony	0.0478	0.0005	mg/L	0.0500		95.6	85-115			
Arsenic	0.0508	0.0005	mg/L	0.0500		102	85-115			
Barium	0.0484	0.0005	mg/L	0.0500		96.7	85-115			
Beryllium	0.0500	0.0005	mg/L	0.0500		100	85-115			
Cadmium	0.0490	0.0001	mg/L	0.0500		98.1	85-115			
Chromium	0.0497	0.0010	mg/L	0.0500		99.4	85-115			
Cobalt	0.0480	0.0001	mg/L	0.0500		95.9	85-115			
Copper	0.0501	0.0001	mg/L	0.0500		100	85-115			
Lead	0.0473	0.0005	mg/L	0.0500		94.7	85-115			
Molybdenum	0.0489	0.0005	mg/L	0.0500		97.7	85-115			
Nickel	0.0483	0.0005	mg/L	0.0500		96.7	85-115			
Selenium	0.251	0.0010	mg/L	0.250		100	85-115			
Silver	0.0476	0.0001	mg/L	0.0500		95.2	85-115			
Thallium	0.0460	0.0001	mg/L	0.0500		92.0	85-115			
Vanadium	0.0479	0.0005	mg/L	0.0500		95.8	85-115			
Zinc	0.0478	0.0010	mg/L	0.0500		95.7	85-115			

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508081 - Dissolved Metals, E200.7/E200.8										
LCS Dup (B508081-BSD1)				Prepared & Analyzed: 08/10/15						
Antimony	0.0505	0.0005	mg/L	0.0500		101	85-115	5.45	20	
Arsenic	0.0518	0.0005	mg/L	0.0500		104	85-115	1.93	20	
Barium	0.0501	0.0005	mg/L	0.0500		100	85-115	3.61	20	
Beryllium	0.0506	0.0005	mg/L	0.0500		101	85-115	1.16	20	
Cadmium	0.0504	0.0001	mg/L	0.0500		101	85-115	2.73	20	
Chromium	0.0504	0.0010	mg/L	0.0500		101	85-115	1.49	20	
Cobalt	0.0475	0.0001	mg/L	0.0500		95.1	85-115	0.857	20	
Copper	0.0509	0.0001	mg/L	0.0500		102	85-115	1.65	20	
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115	3.30	20	
Molybdenum	0.0500	0.0005	mg/L	0.0500		99.9	85-115	2.23	20	
Nickel	0.0494	0.0005	mg/L	0.0500		98.8	85-115	2.15	20	
Selenium	0.256	0.0010	mg/L	0.250		102	85-115	2.01	20	
Silver	0.0439	0.0001	mg/L	0.0500		87.8	85-115	8.18	20	
Thallium	0.0470	0.0001	mg/L	0.0500		94.1	85-115	2.25	20	
Vanadium	0.0473	0.0005	mg/L	0.0500		94.6	85-115	1.24	20	
Zinc	0.0492	0.0010	mg/L	0.0500		98.3	85-115	2.73	20	

DRAFT REPORT

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Total Mercury by CVAA- Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B508083 - EPA 245.1/7470										
Blank (B508083-BLK1)				Prepared & Analyzed: 08/10/15						
Mercury	ND	0.0002	mg/L							
LCS (B508083-BS1)				Prepared & Analyzed: 08/10/15						
Mercury	0.0021	0.0002	mg/L	0.00200		106	85-115			
LCS Dup (B508083-BSD1)				Prepared & Analyzed: 08/10/15						
Mercury	0.0023	0.0002	mg/L	0.00200		115	85-115	7.77	20	

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Southern Ute Tribe Environmental	Project: 8/8/15	
PO Box 737	Project Name / Number: [none]	**Reported:**
Ignacio CO, 81137	Project Manager: Curtis Hartenstein	08/11/15 16:21

Notes and Definitions

B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B1	Target analyte detected in method blank at or above method reporting limit Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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ED_000552F_00008165-00026

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

GREEN GAL Analytical Laboratories
(970) 247-4220
Fax: (970) 247-4227
service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

Company Name(optional): S.U.I.T.
Project Contact Person: Curtis Hartenstine
Personal Address Ex. 6
Email: chartenstine@southernute-nsn.gov
Project Name(optional):
Project Number(optional):
Sampler Name (Print): Hartenstine

Bill to (if different):
P.O. #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax or Email:

ANALYSIS REQUEST: Attached

For Lab Use	Sample Name or Location	Collected Date	Collected Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO_3	HCl	H_2SO_4	Other:	Other:	Other:	Attached
1508-098-1	NAR6	8/8/15	14:00		X												X
-2	AR 7-2	8/8/15	14:30		X												X
-3	AR 16-0	8/8/15	15:00		X												X
-4	AR 19-3	8/8/15	15:30		X												X
-5	AR 16-0 Dupe	8/8/15	15:00		X												X

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-8-15 Time: 1600	Received By: Michael Valentine
Relinquished By:	Date: Time:	Received By:
Relinquished By:	Date: Time:	Received By:

ADDITIONAL REMARKS: 5-Day Rush!

Report to State? (Circle) Yes No

Delivered By: (Circle One)
Sampler - UPS - FedEx - Kangaroo - Other:

Temperature at reciept: 9.0°C on ice

CHECKED BY: MV

† GAL cannot always accept verbal changes. Please fax or email written change requests.
* Chain of Custody must be signed in "Reliquished By:" as an acceptance of services and all applicable charges.

1810830

From: Hartenstine, Curtis [mailto:charten@southernute-nsn.gov]
Sent: Saturday, August 08, 2015 8:56 AM
To: jacob.miller@greenanalytical.com
Subject: Ute WQ Request

Hi Jacob, Thanks for helping us out. This is what we are looking at. It is the same analyte list as EPA. Lert me know if you can perform all or some of this. I can come by today before closing to get bottle sets.
Thanks, Curtis

PARAMETER	Fraction	UNITS	METHOD	MDL	PQL
Surface Water					
Aluminum	Trec, D	mg/l	M200.7 ICP	0.03	0.2
Calcium	Trec, D	mg/l	M200.7 ICP	0.2	1
Iron	Trec, D	mg/l	M200.7 ICP	0.02	0.05
Magnesium	Trec, D	mg/l	M200.7 ICP	0.2	1
Potassium	Trec, D	mg/l	M200.7 ICP		
Sodium	Trec, D	mg/l	M200.7 ICP		
Silver	Trec, D	mg/l	M200.7 ICP ?	0.01	0.03
Arsenic	Trec, D	mg/l	M200.8 ICP-MS	0.0005	0.002
Cadmium	Trec, D	mg/l	M200.8 ICP-MS	0.0001	0.0005
Copper	Trec, D	mg/l	M200.8 ICP-MS	0.01	0.05
Selenium ?	T and D	mg/l	M200.8 ICP-MS	0.0001	0.0003
Zinc	Trec, D	mg/l	M200.8 ICP-MS	0.01	0.05
Barium	Trec, D	mg/l	M200.8 ICP-MS		
Beryllium	Trec, D	mg/l	M200.8 ICP-MS		
Cobalt	Trec, D	mg/l	M200.8 ICP-MS		
Chromium	Trec, D	mg/l	M200.8 ICP-MS		
Manganese	Trec, D	mg/l	M200.8 ICP-MS		
Molybdenum	Trec, D	mg/l	M200.8 ICP-MS		
Nickel	Trec, D	mg/l	M200.8 ICP-MS		
Lead	Trec, D	mg/l	M200.8 ICP-MS		
Antimony	Trec, D	mg/l	M200.8 ICP-MS		
Selenium	Trec, D	mg/l	M200.8 ICP-MS		
Thallium	Trec, D	mg/l	M200.8 ICP-MS		
Vanadium	Trec, D	mg/l	M200.8 ICP-MS		
Bicarbonate as CaC03		mg/l	SM2320B-Titration	2	20
Carbonate as CaC03		mg/l	SM2320B-Titration	2	20
Hardness as CaC03		mg/l	SM2320B-Calculation	1	7
Residue, Non-Filterable (TSS) @ 150°C		mg/l	SM2540D	5	20

TR

ICP-MS

10 sets