CHARLES R PONCHAK Consulting Geologist 15292 6050 Road Montrose, CO 81403 (H) 970-249-2081 (W) 970-249-4434

August 19, 2016

DRMS Attn: Travis Marshall Grand Junction Field Office 101 South 3rd Street Suite 301 Grand Junction, CO. 81501

RE: 6-17-16 Possible violation Letter - Ruby Trust Mine - 42 MWT Mining Company, LLC.

Dear Travis:

Enclosed you will find an ACZ Laboratory report regarding the two piles of waste rock offsite near the Ruby Trust Mine (samples 1 & 2). These two piles were sampled 7-15-16 with Ouray County representatives present. The test results show the rock to be very benign. Once you have reviewed the results please let us know if the State agrees. Once we have your okay we will make an agreement with Ouray County. I am forwarding a copy of the test results to Ouray County (Connie Hunt).

We await your answer.

Sincerely,

Charles R. Ponchak for 42 MWT Mining Company, LLC.





August 18, 2016

Report to: Mickey W. Tiner 42 MWT Mining Co, LLC PO Box 1443 Ouray, CO 81427

cc: Charles R. Ponchak

Bill to: Mickey W. Tiner 42 MWT Mining Co, LLC PO Box 1443 Ouray, CO 81427

Project ID: ACZ Project ID: L31882

Mickey W. Tiner:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 21, 2016. This project has been assigned to ACZ's project number, L31882. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L31882. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 17, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max janice

Max Janicek has reviewed and approved this report.



L31882-1608181444



AGZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

42 MWT Mining Co, LLC

#1

Project ID: Sample ID:

Inorganic Analytical Results

ACZ Sample ID:	L31882-01
Date Sampled:	07/15/16 10:30
Date Received:	07/21/16
Sample Matrix:	Soil

Inorganic Prep

Parameter	EPA Method Dilution Result Qual XQ	Unite Mill Pol Date A	KROTERIAS
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	08/05/16 15 00	krh
Total Hot Plate Digestion	M3010A ICP-MS	08/04/16 12:28	mfm
Total Hot Plate Digestion	M3010A ICP	08/05/16 2:33	gss

Metals Analysis

Parameter	EPA Method	Dilution	Renult		i xa	Units	MDL	DOI		AD PRIME
Aluminum (1312)	M6010B ICP	1	0.26		*	Contractory Contractory of	Contraction of the local distance	100 M		Analyst
Antimony (1312)	M6020 ICP-MS	1	0.0018	в	*	mg/L	0.03	0.2	08/05/16 13:54	gss
Arsenic (1312)	M6020 ICP-MS	1	0.0009	В		mg/L	0.0004	0.002	08/15/16 18:25	enb
Barium (1312)	M6020 ICP-MS	1	0.1309	Б		mg/L	0.0002	0.001	08/15/16 18:25	enb
Beryllium (1312)	M6020 ICP-MS	1	0.1309			mg/L	0.0005	0.003	08/15/16 18:25	enb
Boron (1312)	M6010B ICP	1		U	*	mg/L	0.00005		08/15/16 18:25	enb
Cadmium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.01	0.05	08/05/16 13:54	gss
Calcium (1312)	M6010B ICP	1	44.0	U		mg/L	0.0001	0.0005	08/15/16 18:25	enb
Chromium (1312)	M6020 ICP-MS	1	11.2			mg/L	0.1	0.5	08/05/16 13:54	gss
Cobalt (1312)	M6020 ICP-MS	1		U		mg/L	0.0005	0.002	08/15/16 18:25	enb
Copper (1312)	M6020 ICP-MS	1		U		mg/L	0.00005	0.0003	08/15/16 18:25	enb
Iron (1312)	M6010B ICP	1		U	*	mg/L	0.0005	0.003	08/15/16 18:25	enb
Lead (1312)	M6020 ICP-MS	1		U	*	mg/L	0.02	0.05	08/05/16 13:54	gss
Lithium (1312)	M6010B ICP	1		U		mg/L	0.0001	0.0005	08/15/16 18:25	enb
Magnesium (1312)	M6010B ICP	1	0.4	U	*	mg/L	0.008	0.04	08/05/16 13:54	gss
Manganese (1312)	M6020 ICP-MS	-	0.4	В		mg/L	0.2	1	08/05/16 13:54	gss
Mercury (1312)	M7470A CVAA	1	0.0068		*	mg/L	0.0005	0.003	08/15/16 18:25	enb
Molybdenum (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0002	0.001	08/10/16 12:25	pta
Nickel (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.003	08/15/16 18:25	enb
Potassium (1312)	M6010B ICP	1		U	*	mg/L	0.0006	0.003	08/15/16 18:25	enb
Selenium (1312)		1	2.9		*	mg/L	0.2	1	08/05/16 13:54	gss
Silica (1312)	M6020 ICP-MS M6010B ICP	1	0.0015		*	mg/L	0.0001	0.0003	08/15/16 18:25	enb
Silver (1312)		1	4.3			mg/L	0.2	1	08/05/16 13:54	gss
Sodium (1312)	M6020 ICP-MS M6010B ICP	1	0.00006	В	*	mg/L	0.00005	0.0003	08/15/16 18:25	enb
Strontium (1312)		1	2.5		*	mg/L	0.2	1	08/05/16 13:54	gss
Thallium (1312)	M6010B ICP	1	0.329			mg/L	0.005	0.03	08/05/16 13:54	gss
Tin (1312)	M6020 ICP-MS M6010B ICP	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:25	enb
Uranium (1312)		1		U	*	mg/L	0.04	0.2	08/05/16 13:54	gss
Vanadium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:25	enb
Zinc (1312)	M6020 ICP-MS	1	0.0008	В		mg/L	0.0002	0.001	08/15/16 18:25	enb
	M6020 ICP-MS	1		U	*	mg/L	0.002	0.005	08/15/16 18:25	enb
Soil Analysis										
Parameter	EPA Method	Dilution	Result	Quat	XO	Units	MDL	POL	Date Ar	STREET:
pH, (1312)	M9045D/M9040C		and an			Catholica Calls	SULAD			En la constantina
рH		1	9.0			units	0.1	0.1	09/02/46 0:00	
pH measured at		1	22.6			C	0.1	0.1	08/03/16 0:00	arc
						0	0.1	0.1	08/03/16 0:00	arc

REPIN.02.06.05.01

* Please refer to Qualifier Reports for details.

#1

Project ID:

Sample ID:

Inorganic Analytical Results

ACZ Sample ID:	L31882-01
Date Sampled:	07/15/16 10:30
Date Received:	07/21/16
Sample Matrix:	Soil

Soil Preparation										
Parameter	EPA Method	Dilution	Result	Qua	I Xa	Units	MDL.	P QL	Date	M IVIS
Synthetic Precip. Leaching Procedure	M1312								08/03/16 2:20	arc
Synthetic Precip. Leaching Procedure	M1312, DI Water								08/04/16 3:46	arc
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qua		Units	MDL	Pel	Date	0000
Alkalinity (1312 DI)	SM2320B - Titration					A COLORADOR DE LA CALCONE		, , , , , , , , , , , , , , , , , , ,		and the second sec
Bicarbonate as CaCO3		1	21.9		*	mg/L	2	20	08/04/16 0:00	abd
Carbonate as CaCO3	3	1	7.8	В	*	mg/L	2	20	08/04/16 0:00	abd
Hydroxide as CaCO3	}	1		U	*	mg/L	2	20	08/04/16 0:00	abd
Total Alkalinity		1	29.7		*	mg/L	2	20	08/04/16 0:00	abd
Bromide (1312-DI)	M300.0 - Ion Chromatography	1		U	*	mg/L	0.05	0.25	08/10/16 12:58	bsu
Carbon, total organic (TOC) (1312-DI)	SM5310B	1		U	*	mg/L	1	5	08/04/16 16:37	bsu
Chloride (1312-DI)	M300.0 - Ion Chromatography	1		U	*	mg/L	0.5	2.5	08/05/16 18:52	bsu
Conductivity @25C (1312-DI)	SM2510B	1	114		*	umhos/cm	1	10	08/04/16 14:22	abd
Fluoride (1312 DI)	SM4500F-C	1	0.11	в	*	mg/L	0.05	0.3	08/04/16 14:33	abd
Hardness as CaCO3 (1312)	SM2340B - Calculation		30			mg/L	0.2	5	08/18/16 0:00	calc
Nitrate (1312 DI)	Calculation NO3NO2 minus NO2		0.03	В		mg/L	0.02	0.1	08/18/16 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.03	В	*	mg/L	0.02	0.1	08/04/16 18:42	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	08/04/16 18:42	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.43		*	mg/L	0.05	0.2	08/06/16 13:44	krh
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	0.02	В	*	mg/L	0.02	0.05	08/04/16 22:22	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1		U	+	mg/L	0.02	0.05	08/05/16 23:47	pjb
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	70		*	mg/L	10	20	08/04/16 12:06	abd
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	1		U	*	mg/L	5	20	08/04/16 12:16	abd
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	11.7		*	mg/L	0.5	2.5	08/05/16 18:52	bsu

+ 01

#2

Project ID: Sample ID:

Inorganic Analytical Results

ACZ Sample ID:	L31882-02
Date Sampled:	07/15/16 10:30
Date Received:	07/21/16
Sample Matrix:	Soil

				<u> </u>						
Inorganic Prep										
Parameter	EPA Method	Dilution	Result	Aur	XQ	Units	MDL	POL	Date /	THINK
Phosphorus, Total	M365.1 - Auto Ascorbic					GINE	million .		08/05/16 15:45	krh
(1312-DI)	Acid (digest)								00/00/10 13.45	RITI
Total Hot Plate Digestion	M3010A ICP-MS								08/04/16 13:02	mfm
Total Hot Plate Digestion	M3010A ICP								08/05/16 9:30	gss
Metals Analysis										
Parameter	EPA Method	Dilution	Result	Call + I	1.01	Units	MDL	PQL	Date A	nalyst
Aluminum (1312)	M6010B ICP	accursence 1	0.39	Contra State	*	mg/L	0.03	0.2	08/05/16 14:04	gss
Antimony (1312)	M6020 ICP-MS	1	0.0020		*	mg/L	0.0004	0.002	08/15/16 18:32	enb
Arsenic (1312)	M6020 ICP-MS	1	0.0012			mg/L	0.0002	0.001	08/15/16 18:32	enb
Barium (1312)	M6020 ICP-MS	1	0.1123			mg/L	0.0005	0.003	08/15/16 18:32	enb
Beryllium (1312)	M6020 ICP-MS	1	011120	U	*	mg/L	0.00005		08/15/16 18:32	enb
Boron (1312)	M6010B ICP	1		U	*	mg/L	0.00000	0.05	08/05/16 14:04	
Cadmium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:32	gss enb
Calcium (1312)	M6010B ICP	1	8.5	U		-	0.0001	0.0005		
Chromium (1312)	M6020 ICP-MS	1	0.0	U	*	mg/L	0.0005	0.002	08/05/16 14:04	gss
Cobalt (1312)	M6020 ICP-MS	1		U	+	mg/L	0.00005		08/15/16 18:32	enb
Copper (1312)	M6020 ICP-MS	1	0.0012		*	mg/L		0.0003	08/15/16 18:32	enb
iron (1312)	M6010B ICP	1	0.0012 0.03	B	*	mg/L	0.0005	0.003	08/15/16 18:32	enb
Lead (1312)	M6020 ICP-MS	1		B	*	mg/L	0.02	0.05	08/05/16 14:04	gss
Lithium (1312)	M6010B ICP		0.0001	В	*	mg/L	0.0001	0.0005	08/15/16 18:32	епр
Magnesium (1312)	M6010B ICP	1	0.0	U		mg/L	0.008	0.04	08/05/16 14:04	gss
Magnesium (1312) Manganese (1312)		1	0.3	В	*	mg/L	0.2	1	08/05/16 14:04	gss
Manganese (1312) Mercury (1312)	M6020 ICP-MS	1	0.0035			mg/L	0.0005	0.003	08/15/16 18:32	enb
Molybdenum (1312)	M7470A CVAA	1		U	*	mg/L	0.0002	0.001	08/10/16 12:31	pta
Nickel (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0005	0.003	08/15/16 18:32	enb
Potassium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0006	0.003	08/15/16 18:32	enb
Selenium (1312)	M6010B ICP	1	2.6		*	mg/L	0.2	1	08/05/16 14:04	gss
Silica (1312)	M6020 ICP-MS	1	0.0010		*	mg/L	0.0001	0.0003	08/15/16 18:32	enb
Silver (1312)	M6010B ICP	1	5.5			mg/L	0.2	1	08/05/16 14:04	gss
Sodium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.00005	0.0003	08/15/16 18:32	enb
	M6010B ICP	1	3		*	mg/L	0.2	1	08/05/16 14:04	gss
Strontium (1312)	M6010B ICP	1	0.223			mg/L	0.005	0.03	08/05/16 14:04	gss
Thallium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:32	enb
Tin (1312)	M6010B ICP	1		U	*	mg/L	0.04	0.2	08/05/16 14:04	gss
Uranium (1312)	M6020 ICP-MS	1		U	*	mg/L	0.0001	0.0005	08/15/16 18:32	enb
Vanadium (1312)	M6020 ICP-MS	1	0.0011			mg/L	0.0002	0.001	08/15/16 18:32	enb
Zinc (1312)	M6020 ICP-MS	1		U	*	mg/L	0.002	0.005	08/15/16 18:32	enb
Soil Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	- MDL	PQL	Date Ar	alyst
pH, (1312)	M9045D/M9040C									and and a state of the state of
рН		1	9.1			units	0.1	0.1	08/03/16 0:00	arc
pH measured at		1	22.7			С	0.1	0.1	08/03/16 0:00	arc

REPIN.02.06.05.01

* Please refer to Qualifier Reports for details.

#2

Project ID:	
Sample ID:	

Inorganic Analytical Results

ACZ Sample ID:	L31882-02
Date Sampled:	07/15/16 10:30
Date Received:	07/21/16
Sample Matrix:	Soil

Soil Preparation					10.000			trians an initial car films some		Theory Dates of The of
Parameter Synthetic Precip. Leaching Procedure	EPA Method M1312	Dilution	Result	Qual	Xe	Units	MDL	Pel	Date A 08/03/16 5:52	nalyat arc
Synthetic Precip. Leaching Procedure	M1312, DI Water								08/04/16 5:51	arc
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	POL	Date A	nalyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO3		1	17.5	В	*	mg/L	2	20	08/04/16 0:00	abd
Carbonate as CaCO3	}	1	10.5	В	*	mg/L	2	20	08/04/16 0:00	abd
Hydroxide as CaCO3		1		U	*	mg/L	2	20	08/04/16 0:00	abd
Total Alkalinity		1	28.0		+	mg/L	2	20	08/04/16 0:00	abd
Bromide (1312-DI)	M300.0 - Ion Chromatography	/ 1		U	*	mg/L	0.05	0.25	08/10/16 13:16	bsu
Carbon, total organic (TOC) (1312-DI)	SM5310B	1		U	*	mg/L	1	5	08/04/16 16:37	bsu
Chloride (1312-DI)	M300.0 - Ion Chromatography	/ 1		U	*	mg/L	0.5	2.5	08/05/16 19:10	bsu
Conductivity @25C (1312-DI)	SM2510B	1	98.1		*	umhos/cm	1	10	08/04/16 14:32	abd
Fluoride (1312 DI)	SM4500F-C	1	0.18	В	*	mg/L	0.05	0.3	08/04/16 14:41	abd
Hardness as CaCO3 (1312)	SM2340B - Calculation		23			mg/L	0.2	5	08/18/16 0:00	calc
Nitrate (1312 DI)	Calculation NO3NO2 minus NO2		0.06	В		mg/L	0.02	0.1	08/18/16 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.06	В	*	mg/L	0.02	0.1	08/04/16 18:44	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1		U	*	mg/L	0.01	0.05	08/04/16 18:44	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.64		*	mg/L	0.05	0.2	08/06/16 13:46	krh
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1		U	*	mg/L	0.02	0.05	08/04/16 22:24	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1		U	*	mg/L	0.02	0.05	08/05/16 23:49	pjb
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	56		*	mg/L	10	20	08/04/16 12:08	abd
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	1		U	*	mg/L	5	20	08/04/16 12:18	abd
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	8.35		*	mg/L	0.5	2.5	08/05/16 19:10	bsu

ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493



Batch	Explanations	n and a rac	The state of the state of the state of the
	A distinct set of samples analyzed at a specific time		
Found	Value of the QC Type of interest		
Līmit	Upper limit for RPD, in %		
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)		
MDL	Method Detection Limit, Same as Minimum Reporting Limit ur	nless omitted or e	qual to the PQL (see comment #5).
	Allows for instrument and annual fluctuations.		
PCN/SCN	A number assigned to reagents/standards to trace to the man		ate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "		
QC	True Value of the Control Sample or the amount added to the	10	
Rec RPD	Recovered amount of the true value or spike added, in % (exc		/Kg)
Upper	Relative Percent Difference, calculation used for Duplicate QC	Types	
Sample	Upper Recovery Limit, in % (except for LCSS, mg/Kg) Value of the Sample of interest		
Sample	value of the Sample of Interest		
Sample Typ	pes		
AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW	Prep Blank - Water
LCSSD LCSW	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
20377	Laboratory Control Sample - Water	SDL	Serial Dilution
Sample Typ	e Explanations		
Blanks	Verifies that there is no or minimal co	ntamination in the	prep method or calibration procedure.
Control Sam			
Control Sam Duplicates		ncluding the prep	
Duplicates	nples Verifies the accuracy of the method, in Verifies the precision of the instrument	ncluding the prep it and/or method.	
Duplicates Spikes/Fortil	verifies the accuracy of the method, in Verifies the precision of the instrument	ncluding the prep it and/or method.	
Duplicates Spikes/Fortil Standard	nples Verifies the accuracy of the method, in Verifies the precision of the instrumen fied Matrix Determines sample matrix interference	ncluding the prep it and/or method.	
Duplicates Spikes/Fortif Standard	hples Verifies the accuracy of the method, in Verifies the precision of the instrumen fied Matrix Determines sample matrix interference Verifies the validity of the calibration.	ncluding the prep it and/or method. es, if any.	procedure.
Duplicates Spikes/Fortif Standard Qualifiers B	Analyte concentration detected at a value between MDL and P4	ncluding the prep it and/or method. es, if any. QL. The associate	procedure. ed value is an estimated quantity
Duplicates Spikes/Fortif Standard Oue III Oron B H	nples Verifies the accuracy of the method, in fied Matrix Verifies the precision of the instrument fied Matrix Determines sample matrix interference Verifies the validity of the calibration. Verifies the validity of the calibration. Analyte concentration detected at a value between MDL and P4 Analysis exceeded method hold time. pH is a field test with an	ncluding the prep it and/or method es, if any QL. The associate immediate hold til	procedure. ed value is an estimated quantity
Duplicates Spikes/Fortil Standard B B H L	mples Verifies the accuracy of the method, in fied Matrix Verifies the precision of the instrument fied Matrix Determines sample matrix interference Verifies the validity of the calibration. (Citral) Analyte concentration detected at a value between MDL and Per Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined negative	ncluding the prep it and/or method. es, if any. QL. The associate immediate hold til ative threshold.	procedure. ed value is an estimated quantity. me.
Duplicates Spikes/Fortil Standard B B H L	mples Verifies the accuracy of the method, in fied Matrix Verifies the precision of the instrument fied Matrix Determines sample matrix interference Verifies the validity of the calibration. Verifies the validity of the calibration. Analyte concentration detected at a value between MDL and Per Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined nega The material was analyzed for, but was not detected above the	ncluding the prep at and/or method. es, if any. QL. The associate immediate hold the ative threshold. level of the associ	procedure. ad value is an estimated quantity me. ciated value.
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Duplicates Spikes/Fortif Standard B H L U U 1) 2) 3) 4) 5) ments 1) 2) 3) 4) 4)	mples Verifies the accuracy of the method, in fied Matrix Verifies the precision of the instrument fied Matrix Determines sample matrix interference Verifies the validity of the calibration. Verifies the validity of the calibration. Analyte concentration detected at a value between MDL and Pic Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined negative material was analyzed for, but was not detected above the The material was analyzed for, but was not detected above the EPA 600/4-83-020. Methods for Chemical Analysis of Water and EPA 600/R-93-100. Methods for the Determination of Inorganic EPA 600/R-93-100. Methods for Evaluating Solid Waste Standard Methods for the Examination of Water and Wastewate Solid Solid Waste QC results calculated from raw data. Results may vary slightly if Soil, Sludge, and Plant matrices for Inorganic analyses are reported on an "as reported on an "as re An asterisk in the "XQ" column indicates there is an extended query	ncluding the prep It and/or method. es, if any. QL. The associate immediate hold the ative threshold. level of the associate esample detection and Wastes, March Substances in E Environmental Sa er.	procedure. ed value is an estimated quantity. me. stated value. on limit. 1983. nvironmental Samples, August 1993. amples - Supplement I, May 1994. res are used in the calculations. ht basis.
Duplicates Spikes/Fortif Standard B H L U U 1) 2) 3) 4) 5) mentes 1) 2) 3) 4) 4) 5)	mples Verifies the accuracy of the method, in fied Matrix Determines sample matrix interference Verifies the validity of the calibration. Determines sample matrix interference Verifies the validity of the calibration. Verifies the validity of the calibration. Analyte concentration detected at a value between MDL and Pic Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined negative material was analyzed for, but was not detected above the The material was analyzed for, but was not detected above the EPA 600/4-83-020. Methods for Chemical Analysis of Water an EPA 600/R-93-100. Methods for the Determination of Inorganic EPA 600/R-93-100. Methods for the Determination of Metals in EPA 600/R-93-100. Methods for the Determination of Metals in EPA 800/R-93-111. Methods for the Determination of Metals in EPA SW-846. Test Methods for Evaluating Solid Waste Standard Methods for the Examination of Water and Wastewate QC results calculated from raw data. Results may vary slightly if Soil, Sludge, and Plant matrices for Inorganic analyses are reported on an "as rep	ncluding the prep It and/or method. es, if any. QL. The associate immediate hold the ative threshold. level of the associate esample detection and Wastes, March s Substances in E Environmental Sa er. If the rounded value red on a dry weig eceived" basis. alifier and/or certi	procedure. ed value is an estimated quantity. me. stated value. on limit. 1983. nvironmental Samples, August 1993. amples - Supplement I, May 1994. res are used in the calculations. ht basis. fication qualifier

REP001.03.15.02





Alkalinity as Cat	03		SM2320	0B - Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	10-0	Limit	Qual
WG407633													
WG407633LCSW2	LCSW	08/04/16 13 56	WC160728-1	820.0001		806	mg/L	98	90	110			
WG407586PBW	PBW	08/04/16 14:02		020.0001		U	mg/L	50	-20	20			
L31882-02DUP	DUP	08/04/16 14:42			28	28	mg/L		20	20	0	20	
WG407633LCSW4	LCSW	08/04/16 14:56	WC160728-1	820,0001	20	806	mg/L	98	90	110	0	20	
Aluminum (1312)		M6010E	B ICP		A							
ACZ ID	Туре	Analyzed	PCN/SCN	ec	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13 19	II160714-4	2		2.014	mg/L	101	90	110			
WG407709ICB	ICB	08/05/16 13 22		2		2.014 U	mg/L	101	-0.09	0.09			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.09	0.09			
WG407509LFB1	LFB	08/05/16 13 38	11160802-3	1.0013		1.087	mg/L	109	85	115			
L31877-01DUP	DUP	08/05/16 13:51		1.0015	.73		mg/L	105	05	115	25	20	
L31882-01MS	MS	08/05/16 13 57	1160802-3	1 0012		.57		105	76	405	25	20	RD
L31882-01MSD	MSD	08/05/16 14:01	1160802-3	1.0013 1.0013	.26 .26	1.314 1.329	mg/L mg/L	105 107	75 75	125 125	1	20	
Antimony (1312)			M6020 I		20	1.329		107	15	125	1	20	
ACZ ID	Туре	Analyzed	PCN/SCN	OF-ING AC	N-SIMERIC		110000	entownee		an the second	-		
WG408178	Colles .	Call Differen	THEIL PIEL		Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178ICV	ICV	08/15/16 17:54	M\$160720-6	.02		.01911	mg/L	96	90	110			
WG408178ICB	ICB	08/15/16 17 57				.00052	mg/L		-0.0012	0.0012			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0012	0.0012			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.009980001		.0106	mg/L	106	80	120			
L31877-01DUP	DUP	08/15/16 18 22			.0009	.00094	mg/L				4	20	RA
L31882-02MS L31882-02MSD	MS MSD	08/15/16 18:41	MS160729-2 MS160729-2	.009980001	.002	.01258	mg/L	106	75	125			
_	10100	08/15/16 18:44		.009980001	.002	.01279	mg/L	108	75	125	2	20	
Arsenic (1312)			M6020 I	NT-ST IN LO BOAL - LOT IN .		00.14110-000-0							
ACZ ID	Туре	Analyzed	PCN/SGN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17 54	MS160720-6	.05		.05106	mg/L	102	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0006	0.0006			
WG407509PBS	PBS	08/15/16 18 10				U	mg/L		-0.0006	0.0006			
WG407509LFB2	LF8	08/15/16 18:13	MS160729-2	.0501		.04855	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0032	.00305	mg/L	57	00	120	5	20	
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	.0012	.04859	mg/L	95	75	125	5	20	
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	.0012	.04912	mg/L	96	75	125	1	20	
Barium (1312)			M6020 IC	CP-MS									
ACZID	Туре	Analyzed	PCN/SCN	QC	8ample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual *
WG408178						and some states					and the second	24	and a state of the
WG408178ICV	ICV	08/15/16 17 54	MS160720-6	.05		.05128	mg/L	103	00	110			
WG408178ICB		08/15/16 17 57				U	mg/L	103	90 -0.0015	110			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2		08/15/16 18:13	MS160729-2	.05		.04918	mg/L	98	-0.0015	0.0015			
L31877-01DUP		08/15/16 18 22			.0078	.00709	mg/L	55	00	120	10	20	
L31882-02MS		08/15/16 18 41	MS160729-2	.05	1123	.1581	mg/L	92	75	125	10	20	
L31882-02MSD		08/15/16 18:44	MS160729-2	.05	.1123	1629	mg/L	101	75	125 125	3	20	
											J		





Beryllium (1312)			M6020	ICP-MS									
ACZID	Тура	Analyzed	PCN/SCN	QC	Sample	Found	Unita	Rec	Lower	Upper	RPÐ	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.04878	mg/L	98	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.00015	0.00015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.00015	0.00015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04664	mg/L	93	80	120			
L31877-01DUP	DUP	08/15/16 18 22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18 41	MS160729-2	.0501	U	.04659	mg/L	93	75	125			
L31882-02MSD	MSD	08/15/16 18 44	MS160729-2	.0501	U	.04773	mg/L	95	75	125	2	20	
Boron (1312)			M6010B	ICP									
ACZ ID	Туре	Analyzed	PCN/SCN	QĈ	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	1160714-4	2		2.012	mg/L	101	90	110			
WG407709ICB	ICB	08/05/16 13 22				U	mg/L		-0.03	0.03			
WG407509PBS	PBS	08/05/16 13 35				U	mg/L		-0.03	0.03			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	.5005		.524	mg/L	105	85	115			
L31877-01DUP	DUP	08/05/16 13 51			.01	U	mg/L				200	20	RA
L31882-01MS	MS	08/05/16 13:57	11160802-3	.5005	υ	.486	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	11160802-3	.5005	U	.494	mg/L	99	75	125	2	20	
Bromide (1312-D	1)		M300.0	- Ion Chrom	atograph	у	The state was disk from the state						
ACZ ID	Туре	Analyzed	PCN/SCN	oc	Sample	Found	Units	Rec	Lower	Upper	RPD)	Limit	Qual
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	4.004		3.91	mg/L	98	90	110			
WG404021ICB	ICB	06/01/16 15:59				U	mg/L		-0.05	0.05			
WG407754													
WG407754LFB	LFB	08/10/16 11 46	WI160802-5	1.5		1.47	mg/L	98	90	110			
WG407586PBS	PBS	08/10/16 12:04		1.0		U.47	mg/L	30	-0.05	0.05			
L31877-01AS	AS	08/10/16 12:40	WI160802-5	1.5	U	1.47	mg/L	98	90	110			
L31882-02DUP	DUP	08/10/16 13:33			Ŭ	U	mg/L	00	00	110	0	20	RA
Cadmium (1312)			M6020 I	CP-MS				1					
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178		and the second se	Contract of Children and Childr			NA MARKA	ANN TENEN	and the second				A PERSONAL PROPERTY AND INC.	
WG408178ICV	ICV	08/15/16 17 54	MS160720-6	.05		.04999	mg/L	100	90	110			
WG408178ICB	ICB	08/15/16 17 57		07-7		04000 U	mg/L	100	90 -0.0003	110 0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WC 407500LEDC	1.55		MS160729-2	.05005		.04793	mg/L	96	-0.0003	120			
WG407509LFB2	LFB	08/15/16 18:13	100120-2										
	DUP	08/15/16 18:13			U				00	120	n	20	DA
L31877-01DUP			MS160729-2	.05005	U U	U .04677	mg/L mg/L	93	75	125	0	20	RA



42 MWT Mining Co, LLC

C2:10 Type Analyzed PCN/SCN QC Sample Peand Units Res Lower/L Upper RPD Limit Oxidit WG407709 ICV 08005/161319 III687144 100 100 mg/L 100 90 110	Calcium (1312)			M6010B	ICP									
WG407709ICV ICV 08/05/16 13:19 II160714-4 100 100 mg/L 100 90 110 WG407709ICE ICB 08/05/16 13:22 U mg/L -0.3 0.3 WG407709ICE ICB 08/05/16 13:25 II160802-3 68.00716 Toge -0.3 0.3 WG40750HCP DUP 08/05/16 13:57 II160802-3 68.00716 11.2 79.05 mg/L 100 75 125 0 20 L31827-01DUP DUP 08/05/16 13:57 II160802-3 68.00716 11.2 79.05 mg/L 100 75 125 0 20 L31827-01MSD MSD 08/05/16 15.37 II160802-1 50 Sm/sto 78.03 mg/L 100 75 125 0 20 VG404350/CV ICC 08/09/16 16.34 WI180420-9 100 mg/L 100 90 110 U mg/L -3 3 L31827-02DV DUP 08/04/16 16.37<	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Quili
WG407709ICB ICB 08/05/16 13.32 U mg/L -0.3 0.3 0.3 WG407509PBS PBS 08/05/16 13.35 U mg/L -0.3 0.3 0.3 WG407509PBS PBS 08/05/16 13.35 III60802-3 68.0716 10.9 89.5 10.57 mg/L 10 20 L31872-01D/P DUP 08/05/16 13.57 III60802-3 68.0716 11.2 79.05 mg/L 100 75 125 0 20 L3182-01MSD MS0 08/05/16 13.57 III60802-3 68.0716 11.2 79.05 mg/L 100 75 125 0 20 Carbon, total org=nic (TOC) (1312-DI) SM5310B SM5310B U mg/L 100 90 110 V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V	WG407709													
WG407709ICB ICB 08/05/16 13.22 U mg/L -0.3 0.3 U mg/L -0.3 0.3 WG407509PBS PBS 0805/16 13.35 II168802.3 68.00716 70.88 mg/L 100 75 125 10 20 L31827-01DUP DUP 0805/16 13.57 II168802.3 68.00716 11.2 79.05 mg/L 100 75 125 20 20 111 110 75.05 100 75 125 0 20 111 110 110 75 125 0 20 111 110 110 75 125 0 20 110 110 110 100 100 75 125 0 20 110 110 110 110 110 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	WG407709ICV	ICV	08/05/16 13:19	1160714-4	100		100	mg/L	100	90	110			
WG407509LFB1 LFB 08/05/16 13.57 III60802-3 68.00716 70.98 mpL 104 85 115 L31877-01DUP DUP 08/05/16 13.57 III60802-3 68.00716 11.2 78.03 mgL 100 75 125 0 20 L31882-01MSD MSD 08/05/16 13.57 III60802-3 68.00716 11.2 78.03 mgL 100 75 125 0 20 Carbon, total organic (TOC) (1312-01) SM5310B III60802-3 68.00716 11.2 78.03 mgL 100 75 125 0 20 WG404350CV ICV 08/06/16 16.34 WI160420-9 100 100 mgL 100 90 110	WG407709ICB	ICB	08/05/16 13:22											
L31877-01DUP DUP DB/05/16 13.57 III 00802-3 68.00716 11.2 79.05 mg/L 100 75 125 L31882-01MSD MSD DB/05/16 14.01 III 00802-3 68.00716 11.2 79.05 mg/L 100 75 125 0 20 Carbon, total organic (TOC) (1312-DI) SM5310B AC2 IO Type Analyzed PCNISCN QC Sample Found Unlts Rec Lower Upper RPD Limit Care WG404350 IC2 DB/05/16 16.34 W1160420-9 100 mg/L 100 90 110 LA WG4076751LFB ICB DB/04/16 16.37 W1160802-1 50 57.3 mg/L 115 90 110 LA VG407575LFB LFB DB/04/16 16.37 W1160802-1 50 U mg/L -3 3 - - 20 RA L3182-20DUP DUP DB/04/16 16.37 W1160802-1 50 <td>WG407509PBS</td> <td>PBS</td> <td>08/05/16 13:35</td> <td></td> <td></td> <td></td> <td>U</td> <td>mg/L</td> <td></td> <td>-0.3</td> <td>0.3</td> <td></td> <td></td> <td></td>	WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.3	0.3			
L31882-01MS MS 08/05/16 13.57 III 50802-3 68/00716 11.2 79.05 mg/L 100 75 125 L31882-01MSD MSD 08/05/16 14.01 III 50802-3 68/00716 11.2 79.03 mg/L 100 75 125 0 20 Carbon, total organic (TOC) (1312-DI) SM5310B S S S 100 75 125 0 20 VG404350 V Analyzed PCN/SCN QC Semple Pound Units R62 Lower Uppe RPO Limit Ourit VG4043501CV ICV 06/09/16 16 3.34 W1160421-9 100 100 mg/L 100 90 110 LA VG4047575 LFB 08/04/16 16 37 W1160802-1 50 57.3 mg/L 101 90 110 LA VG407575 MG407675 U U mg/L 101 90 110 LA U31882-02DUP DU 08/04/	WG407509LFB1	LFB	08/05/16 13:38	11160802-3	68.00716		70.98	mg/L	104	85	115			
L31882-01MSD MSD 08/05/16 14.01 III 88902-3 68/0716 11.2 79.03 mpl. 100 75 125 0 20 Carbon, total organic (TOC) (1312-DI) SM5310B SM5310B Rec Lower Upper RP0 Limit Quel WG404350 Vige Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RP0 Limit Quel WG404350 ICO 06/09/16 16.34 Wi16002-9 100 100 mgl. 100 90 110 LA WG404350ICV ICV 06/09/16 16.34 Wi16002-1 50 57.3 mgl. 115 90 110 LA WG40758FBS PBS 08/04/16 16.37 Wi16002-1 50 U 50.5 mgl. 101 90 110 LA MG40758FBS PBS 08/04/16 16.37 Wi16002-1 50 U mgl. 101 90 110 LA	L31877-01DUP	DUP	08/05/16 13:51			9.6	10.57	mg/L				10	20	
Carbon, total organic (TOC) (1312-DI) SM5310B AC2: ID Type Analyzed PCN/SCN QC Sample Found Units Rig Lower Upper RPO Limit Cual WG404350 WG404350 U 06/09/16 16:34 W1160420-9 100 100 mg/L -3 3 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <	L31882-01MS	MS	08/05/16 13:57	II160802-3	68.00716	11.2	79.05	mg/L	100	75	125			
AC2 ID Type Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Qual WG4043501 WG4043501CV ICV 06/09/16 16.34 W1160420-9 100 100 mg/L 100 90 110 WG4043501CV ICV 06/09/16 16.34 W1160420-9 100 100 mg/L -3 3	L31882-01MSD	MSD	08/05/16 14:01	1160802-3	68.00716	11.2	79.03	mg/L	100	75	125	0	20	
WG404350ICV ICV 06/09/16 16 34 WI160420-9 100 100 mg/L 100 90 110 WG404350ICB ICB 06/09/16 16 34 U mg/L 3 3 WG407675 U mg/L 3 3 3 3 WG407575 WI160802-1 50 57.3 mg/L 115 90 110 LA WG407586PBS PBS 08/04/16 16:37 WI160802-1 50 U 50.5 mg/L 101 90 110 LA U31882-02DUP DUP 08/04/16 16:37 WI160802-1 50 U 50.5 mg/L 101 90 110 LA L31882-02DUP DUP 08/04/16 16:37 WI160802-1 50 U mg/L 90 110 LA L31882-02DUP DUP 08/04/16 15:37 WI300.0 - Ion Chromatography Yu mg/L 99 90 110 U WG400750 WG400754 ICV 06/01/16 15:41 <th>Carbon, total or</th> <th>ganic (T</th> <th>OC) (1312-DI)</th> <th>SM5310</th> <th>В</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Carbon, total or	ganic (T	OC) (1312-DI)	SM5310	В									
WG404350ICV ICV 05/09/16 16 3.34 W1160420-9 100 mg/L 100 90 110 WG404350IC8 ICB 06/09/16 16 3.34 W1160420-9 100 mg/L 100 90 110 LA WG407675 WG407675LFB LFB 08/04/16 16.37 W1160802-1 50 57,3 mg/L 115 90 110 LA WG407675LFB LFB 08/04/16 16.37 W1160802-1 50 U mg/L -3 3	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404350IC8 IC8 06/09/16 16:34 U mg/L 3 3 WG407675 WG407675 WG407675 U mg/L -3 3 WG407675 U mg/L -3 3 LA WG407675 WI160802-1 50 U s5.5 mg/L 101 90 110 LA U3182-02DUP DUP 08/04/16 16:37 WI160802-1 50 U s0.5 mg/L 101 90 110 LA KG404021 M300.0 - Ion Chromatography M300.0 - Ion Chromatography M300.0 Ion Chromatography 99 90 110 Limit Qual WG404021 ICV 06/01/16 15:41 WI160802-5 30 29.3 mg/L 99 90 110	WG404350													
WG404350ICB ICB 06/09/16 16 34 U mg/L 3 3 WG407675 WG407675 U mg/L -3 3 LA WG407675LFB LFB 08/04/16 16.37 W1160802-1 50 57.3 mg/L 115 90 110 LA WG407675LFB LFB 08/04/16 16.37 W1160802-1 50 U mg/L -3 3 LA US407575LFB LFB 08/04/16 16.37 W1160802-1 50 U s0.5 mg/L 101 90 110 LA U3182-02DUP DUP 08/04/16 16.37 W1160802-1 50 U s0.5 mg/L 101 90 110 LA L3182-02DUP DUP 08/04/16 16.37 W1160802-1 20.02 19.8 mg/L Rec Lower Upper RPD Limit Qual WG404021 WG404021 W1160802-5 30 29.3 mg/L 99 90 110 U W1400	WG404350ICV	ICV	06/09/16 16:34	WI160420-9	100		100	mg/L	100	90	110			
WG407675LFB LFB 08/04/16 16.37 W1160802-1 50 57.3 mg/L 115 90 110 LA WG407556FBS PBS 08/04/16 16.37 W160802-1 50 U mg/L 3 3 100 LA L31877-01AS AS 08/04/16 16:37 W160802-1 50 U 50.5 mg/L 101 90 110 20 RA L31882-02DUP DUP 08/04/16 16:37 W160802-1 50 U s0.5 mg/L 101 90 110 20 RA Chloride (1312-DI) M300.0 - Ion Chromatography M300.0 - Ion Chromatography M300.0 - Ion Chromatography M300.0 - Ion Chromatography 99 90 110 U mg/L -0.5 0.5 V WG404021 WG404021 U mg/L 99 90 110 V WG407754 U mg/L -0.5 0.5 U 110 U 110 110 110 110 110 110 110<	WG404350ICB													
WG407586PBS PBS 08/04/16 16:37 W160802-1 50 U mg/L -3 3 L31877-01AS AS 08/04/16 16:37 W160802-1 50 U 50.5 mg/L 101 90 110 L31882-02DUP DUP 08/04/16 16:37 W160802-1 50 U U mg/L 101 90 110 L31882-02DUP DUP 08/04/16 16:37 W160802-1 50 U U mg/L 101 90 110 ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Clust WG404021 V ICV 06/01/16 15.41 W1160601-1 20.02 19.8 mg/L 99 90 110 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td>WG407675</td> <td></td>	WG407675													
WG407586PBS PBS 08/04/16 16 :37 WI160802-1 50 U mg/L 3 3 L31877-01AS AS 08/04/16 16 :37 WI160802-1 50 U 50.5 mg/L 101 90 110 L31882-02DUP DUP 08/04/16 16 :37 WI160802-1 50 U mg/L 101 90 110 0 20 RA Chloride (1312-DI) M300.0 - Ion Chromatography WG404021 WG404021ICV ICV 06/01/16 15:41 WI160601-1 20.02 19.8 mg/L 99 90 110 101 90 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <	WG407675LFB	LFB	08/04/16 16:37	WI160802-1	50		57.3	mg/L	115	90	110			LA
L31877-01AS AS 08/04/16 16:37 WI160802-1 50 U 50.5 mg/L 101 90 110 L31882-02DUP DUP 08/04/16 16:37 WI160802-1 50 U u mg/L 101 90 110 0 20 RA Chloride (1312-DJ) M300.0 - Ion Chromatography VG404021 WG404021 CV 06/01/16 15:41 WI160601-1 20.02 19.8 mg/L 99 90 110 Vite to the tothe toth	WG407586PBS													
L31882-02DUP DUP 08/04/16 16:37 U mg/L 0 20 RA Chloride (1312-Di) M300.0 - Ion Chromatography M300.0 - Ion Chromatography Ric Lower Upper RPD Limit Qual MG404021 Type Analyzed PCN/SCN 20.02 19.8 mg/L 99 90 110 V V V WG404021ICV ICV 06/01/16 15:41 W1160601-1 20.02 19.8 mg/L 99 90 110 V V V V 400 -0.5 0.5 V V V V V V V 10 V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V	L31877-01AS	AS	08/04/16 16:37	WI160802-1	50	U		-	101					
ACZ ID Type Analyzed PCN/SCN OC Serring Found Units Rec Lower Upper RPD Limit Qual WG404021 WG404021ICV ICV 06/01/16 15:41 W1160601-1 20.02 19.8 mg/L 99 90 110 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	L31882-02DUP	DUP										0	20	RA
WG404021 WG404021ICV ICV 06/01/16 15:41 WI160601-1 20.02 19.8 mg/L 99 90 110 WG404021ICB ICB 06/01/16 15:59 U mg/L -0.5 0.5 WG407754 USA WI160802-5 30 29.3 mg/L 98 90 110 WG407754LFB LFB 08/05/16 17:40 WI160802-5 30 29.3 mg/L 98 90 110 WG407586PBS PBS 08/05/16 17:58 U mg/L -0.5 0.5 110 L31877-01AS AS 08/05/16 19:28 U U mg/L 99 90 110 L31882-02DUP DUP 08/05/16 19:28 U U mg/L 0 20 RA Chromium (1312) MG200 ICP-MS Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Qual	Chloride (1312-E	DI)		M300.0 -	Ion Chroma	atograph	У							
WG404021ICV ICV 06/01/16 15:41 WI160601-1 20.02 19.8 mg/L 99 90 110 WG404021ICB ICB 06/01/16 15:59 U mg/L 99 90 110 WG407754 ICB 06/01/16 17:40 WI160802-5 30 29.3 mg/L 98 90 110 WG407754LFB LFB 08/05/16 17:40 WI160802-5 30 U mg/L 98 90 110 WG407586PBS PBS 08/05/16 17:58 U mg/L 98 90 110 10 10 L31877-01AS AS 08/05/16 18:34 WI160802-5 30 U 29.6 mg/L 99 90 110 10 10 10 10 10 10 10 10 10 10 20 RA L31877-01AS AS 08/05/16 19:28 U U mg/L 99 90 110 10 20 RA L31882-02DUP DUP 08/05/16 19:28 U U mg/L 0 20 RA	ACZID	Туре	Analyzed	PCN/SCN	e (e)G	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404021ICB ICB 06/01/16 15:59 U mg/L -0.5 0.5 WG407754 V VI160802-5 30 29.3 mg/L 98 90 110 WG407754LFB LFB 08/05/16 17:58 U mg/L -0.5 0.5 -0.5 US407754LFB LFB 08/05/16 17:58 U mg/L -0.5 0.5 -0.5 US407586PBS PBS 08/05/16 18:34 W1160802-5 30 U 29.6 mg/L 99 90 110 L31882-02DUP DUP 08/05/16 19:28 U U mg/L 99 90 110 Chromium (1312) M6020 ICP-MS U U mg/L 99 90 110 ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Qual	WG404021							2004-04 <u>60</u> 00-03	205300 207910204	204 Carls	***************			BOHD GOOD
WG404021ICB ICB 06/01/16 15:59 U mg/L -0.5 0.5 WG407754 V/// V// V// V// V// V// V// V// V// V/	WG404021ICV	ICV	06/01/16 15:41	WI160601-1	20.02		19.8	ma/L	99	90	110			
WG407754 LFB 08/05/16 17:40 W160802-5 30 29.3 mg/L 98 90 110 WG407586PBS PBS 08/05/16 17:58 U mg/L -0.5 0.5 L31877-01AS AS 08/05/16 18:34 W160802-5 30 U 29.6 mg/L 99 90 110 L31882-02DUP DUP 08/05/16 19:28 U U mg/L 0 20 RA Chromium (1312) M6020 ICP-MS Analyzed PCN/SCN QC Sample Found Unita Rec Lower Upper RPD Limit Qual									00					
WG407586PBS PBS 08/05/16 17:58 U mg/L -0.5 0.5 L31877-01AS AS 08/05/16 18:34 W1160802-5 30 U 29.6 mg/L 99 90 110 L31882-02DUP DUP 08/05/16 19:28 U U mg/L 99 90 110 Chromium (1312) M6020 ICP-MS M6020 ICP-MS Sample Found Units Rec Lower Upper RPD Limit Qual	WG407754													
WG407586PBS PBS 08/05/16 17:58 U mg/L -0.5 0.5 L31877-01AS AS 08/05/16 18:34 W1160802-5 30 U 29.6 mg/L 99 90 110 L31882-02DUP DUP 08/05/16 19:28 U U U mg/L 99 90 110 Chromium (1312) M6020 ICP-MS M6020 ICP-MS M6020 ICP-MS Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Qual	WG407754LFB	LFB	08/05/16 17:40	WI160802-5	30		29.3	mg/L	98	90	110			
L31877-01AS AS 08/05/16 18:34 W1160802-5 30 U 29.6 mg/L 99 90 110 L31882-02DUP DUP 08/05/16 19:28 U U U mg/L 0 20 RA Chromium (1312) M6020 ICP-MS M6020 ICP-MS Sample Found Units Rec Lower Upper RPD Limit Qual	WG407586PBS	PBS	08/05/16 17:58					1000						
Chromium (1312) M6020 ICP-MS ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Qual	L31877-01AS	AS	08/05/16 18:34	WI160802-5	30	U	29.6	mg/L	99	90	110			
ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec Lower Upper RPD Limit Qual	L31882-02DUP	DUP	08/05/16 19:28			U	U	mg/L				0	20	RA
	Chromium (1312	:)		M6020 I	CP-MS								<u></u>	
	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Unite	REE	Lower	Upper	RIPD.	Umit	Qual
WG408178	WG408178				- Construction			and the second second	(E-H-H)/(//b			Concerned Prop		Contractory of Contractory
WG408178ICV ICV 08/15/16 17:54 MS160720-6 .05 .049 mg/L 98 90 110	WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.049	ma/L	98	90	110			
WG408178ICB ICB 08/15/16 17:57 U mg/L -0.0015 0.0015					23 T									
WG407509PBS PBS 08/15/16 18:10 U mg/L -0.0015 0.0015	WG407509PBS	PBS												
WG407509LFB2 LFB 08/15/16 18:13 MS160729-2 .05005 .04809 mg/L 96 80 120	WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005				96					
L31877-01DUP DUP 08/15/16 18:22 U U mg/L 0 20 RA	L31877-01DUP	DUP	08/15/16 18:22			U						0	20	RA
L31882-02MS MS 08/15/16 18:41 MS160729-2 .05005 U .04621 mg/L 92 75 125	L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005		.04621	mg/L	92	75	125			
L31882-02MSD MSD 08/15/16 18/44 MS160729-2 .05005 U .04723 mg/L 94 75 125 2 20														



Inorganic QC Summary

Cobalt (1312)			M6020 IC	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	(a.(1.*)
WG408178								and strong second					
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05373	mg/L	107	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.00015	0.00015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.00015	0.00015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.0518	mg/L	103	80	120			
L31877-01DUP	DUP	08/15/16 18.22			.00009	.000056	mg/L				47	20	R
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	U	.04945	mg/L	99	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.05072	mg/L	101	75	125	3	20	
Conductivity @2	5C (131)	2-DI)	SM2510E	3			hadaganga — () () () () () () (
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407633													
WG407633LCSW1	LCSW	08/04/16 13:43	PCN49502	1409		1470	umhos/cm	104	90	110			
WG407586PBW	PBW	08/04/16 14:02				1.7	umhos/cm		-10	10			
L31882-02DUP	DUP	08/04/16 14 42			98.1	100	umhos/cm				2	20	
WG407633LCSW3	LCSW	08/04/16 14 43	PCN49502	1409		1460	umhos/cm	104	90	110			
Copper (1312)			M6020 IC	P-MS	annen an		4- 65- 66- 4-4						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05115	mg/L	102	90	110			
WG4081781CB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18 10				Ŭ	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04955	mg/L	99	80	120			
L31877-01DUP	DUP	08/15/16 18 22			U	U	mg/L				0	20	R
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	.0012	.04883	mg/L	95	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	.0012	.04972	mg/L	97	75	125	2	20	
Fluoride (1312 DI)		SM4500F	-C									
ACZ ID	Туре	Analyzed	PCN/SCN	80	Semple	Found	Units	Rec	Lower	Upper .	RPD	Limit	Qual
WG407648					Construction Decis	Contrological and							and provide surgery
WG407648ICV	ICV	08/04/16 14:06	WC160728-2	2		1,914	mg/L	96	95	105			
WG407648ICB	ICB	08/04/16 14 12		_		.059	mg/L		-0.15	0.15			
WG407648LFB	LFB	08/04/16 14:20	WC160419-8	4.995		4.955	mg/L	99	90	110			
WG407586PBS	PBS	08/04/16 14:24				.125	mg/L		-0.15	0.15			
L31882-01AS	AS	08/04/16 14.38	WC160419-8	4.995	.11	4.932	mg/L	97	90	110			
L31882-02DUP	DUP	08/04/16 14:45			.18	ା18	mg/L				42	20	RA
Iron (1312)			M6010B I	СР			-	*** y *y					
ACZ ID	Туре	Analyzed	PCN/SCN	GC .	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13 19	ll160714-4	2		1.966	mg/L	98	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.06	0.06			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.06	0.06			
	LFB	08/05/16 13:38	II160802-3	1.0017		1.033	mg/L	103	85	115			
WG407509LFB1													
	DUP	08/05/16 13:51			.09	.032	mg/L				95	20	RA
WG407509LFB1 L31877-01DUP L31882-01MS		08/05/16 13:51 08/05/16 13:57	11160802-3	1.0017	.09 U	.032 .997		100	75	125	95	20	RA



Inorganic QC Summary

Lead (1312)			M6020 I	CP-MS									
APPZ ID	Туре	Analyzed	PCN/SCN	60	Sample	Found	Units	Rec	Lower	Upper	RPD	Links	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	05		.05275	mg/L	106	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.05	mg/L	100	80	120			
L31877-01DUP	DUP	08/15/16 18:22			0011	00057	mg/L				63	20	RD
L31882-02MS	MS	08/15/16 18 41	MS160729-2	.05005	.0001	,04924	mg/L	98	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	05005	.0001	.04951	mg/L	99	75	125	1	20	
Lithium (1312)			M6010B	ICP						+ +- + - +			
ACZ ID	Туре	Analyzed	PCN/SCN	E.C	Sample	Found	Units	Roc	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	2		1.973	mg/L	99	90	110			
WG407709ICB	ICB	08/05/16 13 22				U	mg/L		-0.024	0.024			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.024	0.024			
WG407509LFB1	LFB	08/05/16 13:38	1160802-3	1.002		1.019	mg/L	102	85	115			
L31877-01DUP	DUP	08/05/16 13:51			U	U	mg/L				0	20	RA
L31882-01MS	MS	08/05/16 13:57	11160802-3	1.002	U	.9689	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	1160802-3	1.002	U	.977	mg/L	98	75	125	1	20	
Magnesium (13	12)		M6010B	ICP									
AGZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Unite	RCP	Lower	Usper	RPD	Umit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	II160714-4	100		99.7	mg/L	100	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				υ	mg/L		-0,6	0.6			
WG407509LFB1	LFB	08/05/16 13:38	II160802-3	50.00491		48.85	mg/L	98	85	115			
L31877-01DUP	DUP	08/05/16 13:51			.3	.21	mg/L				35	20	RA
L31882-01MS	MS	08/05/16 13:57	11160802-3	50.00491	.4	46.96	mg/L	93	75	125			
L31882-01MSD	MSD	08/05/16 14:01	1160802-3	50,00491	.4	46.84	mg/L	93	75	125	0	20	
Manganese (13*	12)		M6020 I	CP-MS					· manimum and the discourse on a co				
ACZ ID	Тура	Analyzed	PGN/SCN	ec.	Sample	Found	Units	Rec	Lower	Upper	RPD.	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05131	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L	042072	-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.0502	mg/L	100	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0038	.00249	mg/L				42	20	RA
L31882-02MS													
L31002-U2IVIS	MS	08/15/16 18:41	MS160729-2	.05005	.0035	.05169	mg/L	96	75	125			



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Mercury (1312)			M7470A	CVAA									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper .	(inter	Limit	Out
WG407747													
WG407747ICV	ICV	08/10/16 12:11	HG160805-4	.005		.00514	mg/L	103	90	110			
WG407747ICB	ICB	08/10/16 12:13				U	mg/L		-0.0006	0.0006			
WG407509PBS	PBS	08/10/16 12:15				U	mg/Kg		-0.0006	0.0006			
WG407509LFB1	LFB	08/10/16 12:18	HG160805-2	.002002		.00185	mg/L	92	85	115			
L31877-01DUP	DUP	08/10/16 12:23			υ	U	mg/L				0	20	RA
L31882-01MS	MS	08/10/16 12:27	HG160805-2	.002002	U	.00174	mg/L	87	85	115			
L31882-01MSD	MSD	08/10/16 12:29	HG160805-2	.002002	U	.00182	mg/L	91	85	115	4	20	
Molybdenum (1	312)		M6020 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17 54	MS160720-6	.01998		.01969	mg/L	99	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0015	0.0015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0015	0.0015			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		05085	mg/L	102	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0007	.00054	mg/L				26	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05005	υ	.04987	mg/L	100	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05005	U	.05094	mg/L	102	75	125	2	20	
								1					
NICKEI (1312)			M6020 IC	CP-MS									
	Туре	Analyzed	M6020 IC PCN/SCN	CP-MS	Sample	Found	Unita	Rec	Lower	Upper	RPD	Linit	Qual
Nickel (1312) AC21D WG408178	Туре	Analyzed		CP-MS	Sample	Pound	Unita	Rec	Lower	Upper	RND	Linit	Guat
AC2 ID WG408178				45	Sample	Pound 04999	Unita mg/L	fter,		1999 (A-965, 5113)	RBD	Linit	Quat
ACZ ID	Type ICV ICB	Analyzed 08/15/16 17:54 08/15/16 17:57	PCN/SCN	05	Saturatie	Found .04999 U	Unta mg/L mg/L	ftec, 100	Lower 90 -0.0018	Upper 110 0.0018	RED		Quat
AC2 ID WG408178 WG408178ICV	ICV	08/15/16 17 54	PCN/SCN	45	Şanıple			fter; 100	90	110	Rieb	Lmit	Qual
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS	ICV ICB	08/15/16 17:54 08/15/16 17:57	PCN/SCN	45	Sample	U	mg/L	fter 100 95	90 -0.0018	110 0.0018	RPD	Linit	Quat
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2	ICV ICB PBS	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10	MS160720-6	.05	Semple	U U	mg/L mg/L		90 -0.0018 -0.0018	110 0.0018 0.0018	Rico) O	Lmi	Qual
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31877-01DUP	ICV ICB PBS LFB	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13	MS160720-6	.05	Şemple U U	U U .04743	mg/L mg/L mg/L		90 -0.0018 -0.0018	110 0.0018 0.0018	(96):50,24		QUE
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS	ICV ICB PBS LFB DUP	08/15/16 17 54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22	MS160729-2	.05		U U .04743 U	mg/L mg/L mg/L mg/L	95	90 -0.0018 -0.0018 80	110 0.0018 0.0018 120	(96):50,24		GUHE RA
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31877-01DUP L31882-02MS	ICV ICB PBS LFB DUP MS MSD	08/15/16 17 54 08/15/16 17 57 08/15/16 18 10 08/15/16 18 13 08/15/16 18 22 08/15/16 18 41 08/15/16 18 44	PCN/SCN MS160720-6 MS160729-2 MS160729-2 MS160729-2	.05 .05005 .05005	U U	U U .04743 U .0458 .04724	mg/L mg/L mg/L mg/L mg/L	95 92	90 -0.0018 -0.0018 80 75	110 0.0018 0.0018 120 125	0	20	Quel RA
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31877-01DUP L31882-02MS L31882-02MS L31882-02MSD	ICV ICB PBS LFB DUP MS MSD	08/15/16 17 54 08/15/16 17 57 08/15/16 18 10 08/15/16 18 13 08/15/16 18 22 08/15/16 18 41 08/15/16 18 44	PCN/SCN MS160720-6 MS160729-2 MS160729-2 MS160729-2	.05 .05005 .05005 .05005	U U	U U .04743 U .0458 .04724	mg/L mg/L mg/L mg/L mg/L mg/L	95 92	90 -0.0018 -0.0018 80 75	110 0.0018 0.0018 120 125	0	20 20	Quat RA Quat
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31877-01DUP L31882-02MS L31882-02MS L31882-02MSD Nitrate/Nitrite as AC2 ID	ICV ICB PBS LFB DUP MS MSD	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22 08/15/16 18:41 08/15/16 18:44	PCN/SCN MS160720-6 MS160729-2 MS160729-2 MS160729-2 M353.2 -	.05 .05005 .05005 .05005 Automated	U U Cadmiur	U U .04743 U .0458 .04724 n Reduct	mg/L mg/L mg/L mg/L mg/L mg/L	95 92 94	90 -0.0018 -0.0018 80 75 75 75	110 0.0018 0.0018 120 125 125	0	20 20	
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31877-01DUP L31882-02MS L31882-02MS Nitrate/Nitrite as AC2 ID WG407687	ICV ICB PBS LFB DUP MS MSD	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22 08/15/16 18:41 08/15/16 18:44	PCN/SCN MS160720-6 MS160729-2 MS160729-2 MS160729-2 M353.2 -	.05 .05005 .05005 .05005 Automated	U U Cadmiur	U U .04743 U .0458 .04724 n Reduct	mg/L mg/L mg/L mg/L mg/L mg/L	95 92 94	90 -0.0018 -0.0018 80 75 75 75	110 0.0018 0.0018 120 125 125	0	20 20	
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31872-01DUP L31882-02MS L31882-02MS L31882-02MSD Nitrate/Nitrite as AC2 ID WG407687 WG407687ICV	ICV ICB PBS LFB DUP MS MSD S N (1312 Type	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22 08/15/16 18:41 08/15/16 18:44 2-DI) Analyzed	PCN/SCN MS160729-2 MS160729-2 MS160729-2 MS160729-2 M353.2 - PCN/SCN	.05 .05005 .05005 .05005 Automated	U U Cadmiur	U U .04743 U .0458 .04724 n Reduct Found	mg/L mg/L mg/L mg/L mg/L mg/L tion Units	95 92 94 Rec	90 -0.0018 -0.0018 80 75 75 75 Lower 90	110 0.0018 0.0018 120 125 125 125 Upper 110	0	20 20	
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31872-01DUP L31882-02MS L31882-02MS Nitrate/Nitrite as AC2 ID WG407687 WG407687ICV WG407687ICB	ICV ICB PBS LFB DUP MS MSD S N (131) Type ICV	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22 08/15/16 18:41 08/15/16 18:44 2-DI) Analyzed	PCN/SCN MS160729-2 MS160729-2 MS160729-2 MS160729-2 M353.2 - PCN/SCN	.05 .05005 .05005 .05005 Automated cc 2.416	U U Cadmiur	U U .04743 U .0458 .04724 n Reduct Found 2.525 U	mg/L mg/L mg/L mg/L mg/L mg/L ion	95 92 94 Rec	90 -0.0018 -0.0018 80 75 75 75 Lower 90 -0.02	110 0.0018 0.0018 120 125 125 125	0	20 20	
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31877-01DUP L31882-02MS L31882-02MS L31882-02MSD Nitrate/Nitrite as AC2 ID	ICV ICB PBS LFB DUP MS MSD N (131: Type ICV ICB	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22 08/15/16 18:41 08/15/16 18:44 2-DI) Analyzed 08/04/16 18:32 08/04/16 18:33	PCN/SCN MS160729-2 MS160729-2 MS160729-2 M353.2 - PCN/SCN WI160607-11	.05 .05005 .05005 .05005 Automated	U U Cadmiur	U U .04743 U .0458 .04724 n Reduct Found 2.525 U 1.965	mg/L mg/L mg/L mg/L mg/L tion Units mg/L mg/L mg/L	95 92 94 Rec 105	90 -0.0018 -0.0018 80 75 75 75 Lower 90 -0.02 90	110 0.0018 0.0018 120 125 125 Upper 110 0.02 110	0	20 20	
AC2 ID WG408178 WG408178ICV WG408178ICB WG407509PBS WG407509LFB2 L31872-01DUP L31882-02MS L31882-02MS Nitrate/Nitrite as AC2 ID WG407687 WG407687ICV WG407687ICB WG407687LFB	ICV ICB PBS LFB DUP MS MSD SN (1312 Type ICV ICB LFB	08/15/16 17:54 08/15/16 17:57 08/15/16 18:10 08/15/16 18:13 08/15/16 18:22 08/15/16 18:41 08/15/16 18:44 2-DI) Analyzed 08/04/16 18:33 08/04/16 18:33	PCN/SCN MS160729-2 MS160729-2 MS160729-2 M353.2 - PCN/SCN WI160607-11	.05 .05005 .05005 .05005 Automated cc 2.416	U U Cadmiur	U U .04743 U .0458 .04724 n Reduct Found 2.525 U	mg/L mg/L mg/L mg/L mg/L ion Units mg/L mg/L	95 92 94 Rec 105	90 -0.0018 -0.0018 80 75 75 75 Lower 90 -0.02	110 0.0018 0.0018 120 125 125 Upper 110 0.02	0	20 20	

Nitrite as N (13	12-DI)		M353.2 -	Automated	Cadmiu	m Reduc	tion						
AGZID	Туре	Analyzed	PEN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Quel
WG407687													
WG407687ICV	ICV	08/04/16 18:32	WI160607-11	.609		.64	mg/L	105	90	110			
WG4076871CB	ICB	08/04/16 18:33				U	mg/L		-0.01	0.01			
WG407687LFB	LFB	08/04/16 18:37	WI160616-3	1		.991	mg/L	99	90	110			
WG407586PBS	PBS	08/04/16 18:39				U	mg/L		-0.01	0,01			
L31877-01AS	AS	08/04/16 18:41	WI160616-3	1	U	1.016	mg/L	102	90	110			
L31882-02DUP	DUP	08/04/16 18:45			U	U	mg/L				0	20	F
Nitrogen, amm	ionia (13	12-DI)	M350.1 A	Auto Salicyla	ate w/ga	s diffusior	1						1.0
ACZ ID	Туре	Analyzed	PCN/SCN	ec	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407769													
WG407769ICV	ICV	08/06/16 11:28	WI160705-8	11.988		12.311	mg/L	103	90	110			
WG407769ICB	ICB	08/06/16 11 29				U	mg/L		-0.05	0.05			
WG407773						-	• 11 Martin						
WG407773LFB	LFB	08/06/16 13:38	WI160121-1	10		10.263	mg/L	103	90	110			
WG407586PBS	PBS	08/06/16 13:40		10		U	mg/L	,00	-0.05	0.05			
L31877-01AS	AS	08/06/16 13:43	WI160121-1	10	.64	11.192	mg/L	106	90	110			
L31882-02DUP	DUP	08/06/16 13:47			.64	.71	mg/L	100		110	10	20	
Ph			M9045D/	M9040C	-								
ACZ ID	Туре	Analyzed	PCN/SCN	u C	Sample	Found	Units	Rec	Lower	Upper	· RIRD	Limit	Qual
WG407790						Section Production of Product		CALCULATION AND	08/20/20/0125	E WITH MARKEN			
WG407790ICV	ICV	08/02/16 21:15	PCN48828	4		4	units	100	3.9	4.1			
L31877-01DUP	DUP	08/03/16 3:55		·	9.5	9.5	units	100	0.0	3.1	D	20	
Phosphorus, o	rtho diss	olved (1312-DI)	M365.1 -	Automated	Ascorbi	c Acid							
ACZ ID	Туре	Analyzed	PCN/SCN	ÉC .	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407688					C. AND PRESS		d and in a log			Contract Property		tion of the last	
WG407688ICV	ICV	08/04/16 21:37	WI160503-9	.6523		62	m a/l	07	00	110			
WG407688ICB	ICB	08/04/16 21:38	*********	.0525		.63 U	mg/L	97	90	110			
	100	00/04/10 21:30				U	mg/L		-0.02	0.02			
WG407689													
NG407689LFB	LFB	08/04/16 22:18	WI160721-4	.5		.462	mg/L	92	90	110			
NG407586PBS	PBS	08/04/16 22 19				U	mg/L		-0.02	0.02			
_31877-01AS _31882-02DUP	AS DUP	08/04/16 22:21 08/04/16 22:25	WI160721-4	.5	U U	-488 U	mg/L	98	90	110		~~	
Phosphorus, To		23	Mace 4	A			mg/L				0	20	R/
	Туре	Analyzed	PCN/SCN	Auto Ascort	Z = 17 - PROVIDE		11-51-5	and waters	NEW SHOULD T	00795400500	0 7-1-1-1 0		SPR00-MI
		a nicely read	1 oluoolu	The second second	eauba	Found	UNIRCS	REC	Lower	Upper	CPO1	Limit	Qual
ACZ ID													
ACZ ID WG407760													
ACZ ID WG407760 WG407760ICV	ICV	08/05/16 22 58	WI160629-4	.65228		.664	mg/L	102	90	110			
ACZ ID WG407760 NG407760ICV NG407760ICB		08/05/16 22 58 08/05/16 23 00	WI160629-4	.65228		.664 U	mg/L mg/L	102	90 -0.02	110 0.02			
ACZ ID WG407760 NG407760ICV NG407760ICB	ICV		WI160629-4	.65228				102					
ACZ ID WG407760 NG407760ICV NG407760ICB WG407761	ICV		WI160629-4	.65228				102					
AC2 ID WG407760 WG407760ICV WG407760ICB WG407761 WG407726PBS	ICV ICB	08/05/16 23:00	WI160629-4 WI160805-2	.65228 .5		U	mg/L	102 98	-0.02	0.02			
AC2 ID WG407760ICV WG407760ICV WG407760ICB WG407761 WG407726PBS WG407726LFB L31877-01MS	ICV ICB PBS	08/05/16 23 00 08/05/16 23:43			U	U U	mg/L mg/L		-0.02	0.02			



Inorganic QC Summary

Potassium (131)	2)		M6010B	ICP									
ACZID	Type	' Analyzed	PCN/SCN	QC.	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Cual
WG407709			00 3409420 SEJANO 42				inclaimente prot	ACCESSION CORPORT	AND LOD POLICIPACION	2740729K9b48494949		Sol of The Contractory of Contractory	and age of a supervised and a super-
WG407709ICV	ICV	08/05/16 13:19	1160714-4	20		19.92	mg/L	100	90	110			
WG407709ICB	ICB	08/05/16 13:19	111007 14-4	20		19.92 U	mg/L	100	-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13:35	1160802-3	99,99679		101.8	mg/L	102	85	115			
L31877-01DUP	DUP	08/05/16 13:51	1100002-0	33.33073	1.5	1.39	mg/L	102	00	110	8	20	RA
L31882-01MS	MS	08/05/16 13 57	1160802-3	99.99679	2.9	99.72	mg/L	97	75	125	0	20	
L31882-01MSD	MSD	08/05/16 14:01	1160802-3	99.99679	2.9	100.2	mg/L	97	75	125	0	20	
Residue, Filtera				describelentle beidenen ander de – deete engengen ge einer									
ACZ ID	Type	Analyzed	PCN/SCN	ec	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407635				and the second	Contraction of the	- Contraction		Ser 200 (Leone Leon				and the second	
		08/04/40 40-00					mat		00	20			
WG407635PBW WG407635LCSW	PBW LCSW	08/04/16 12:00	PCN51167	250		U 258	mg/L mo/l	99	-20 80	20 120			
WG407586PBS	PBS	08/04/16 12:01 08/04/16 12:03	PUNDI 107	260		258 U	mg/L mg/L	33	-20	20			
L31882-02DUP	DUP	08/04/16 12:03			56	56	mg/L		-20	20	0	10	RA
							ingre						
Residue, Non-Fi	CONTRACTOR OF	and the second second second			-		11070				- ARD	Limit	Qual
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Lumat	Guar
WG407636													
WG407636PBW	PBW	08/04/16 12:10				U	mg/L		-15	15			
WG407636LCSW	LCSW	08/04/16 12:11	PCN51167	160		147	mg/L	92	80	120			
WG407586PBS	PBS	08/04/16 12:13				6	mg/L		-15	15			
L31882-02DUP	DUP	08/04/16 12 20			U	U	mg/L				0	10	RA
Selenium (1312)			M6020 I	CP-MS									
ACZ ID	Туре	Analyzed	PGN/SCN	ec	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05033	mg/L	101	90	110			
WG408178ICB	ICB	08/15/16 17 57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18 13	MS160729-2	.0501		.04782	mg/L	95	80	120			
L31877-01DUP	DUP	08/15/16 18 22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	.001	.04804	mg/L	94	75	125			
L31882-02MSD	MSD	08/15/16 18 44	MS160729-2	.0501	.001	.04854	mg/L	95	75	125	1	20	
Silica (1312)			M6010B	ICP									
ACZ ID	Туре	Analyzed	PCN/SCN	ec	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709					Administration and A								
WG407709ICV	ICV	08/05/16 13:19	1160714-4	42.8		41.24	mg/L	96	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13:38	11160802-3	21.415		22.45	mg/L	105	85	115			
L31877-01DUP	DUP	08/05/16 13:51			7.7	6.48	mg/L	.00	30		17	20	
L31882-01MS	MS	08/05/16 13:57	1160802-3	21,415	4.3	24.74	mg/L	95	75	125			
L31882-01MSD	MSD	08/05/16 14:01	1160802-3	21.415	4.3	24.39	mg/L	94	75	125	1	20	
								<u> </u>	. •				



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Silver (1312)			M6020 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	¢c.	Sample	Found.	Units	Rec	Lower	C.z.7	RED	Limit	Cual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.02004		.02037	mg/L	102	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.00015	0.00015			
WG407509PBS	PBS	08/15/16 18:10				U	mg/Ł		-0.00015	0.00015			
WG407509LF82	LFB	08/15/16 18:13	MS160729-2	.01001		.009757	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18 22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18 41	MS160729-2	.01001	U	.009384	mg/L	94	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.01001	U	.009685	mg/L	97	75	125	3	20	
Sodium (1312)			M6010B	ICP									
ACZ ID	Туре	Analyzed	PCN/SCN	RC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	1160714-4	100		98.97	mg/L	99	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0,6	0.6			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.6	0.6			
WG407509LFB1	LFB	08/05/16 13 38	11160802-3	100.0149		100.9	mg/L	101	85	115			
L31877-01DUP	DUP	08/05/16 13:51			1.8	1,61	mg/L				11	20	RA
L31882-01MS	MS	08/05/16 13:57	11160802-3	100.0149	2.5	99.27	mg/L	97	75	125			
L31882-01MSD	MSD	08/05/16 14:01	II160802-3	100.0149	2.5	99.05	mg/L	97	75	125	0	20	
Strontium (131)	2)		M6010B	ICP									
ACZ ID	Туре	Analyzed	PCN/SGN	QC	Simple	Found	Units	Rec	Lower	Upper	Rife	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13:19	11160714-4	2		1,966	mg/۱	98	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.015	0.015			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.015	0.015			
WG407509LFB1	LFB	08/05/16 13:38	1160802-3	.501		.5266	mg/L	105	85	115			
L31877-01DUP	DUP	08/05/16 13 51			204	.2224	mg/L				9	20	
L31882-01MS	MS	08/05/16 13 57	II160802-3	.501	.329	.8341	mg/L	101	75	125			
L31882-01MSD	MSD	08/05/16 14.01	1160802-3	.501	.329	.8351	mg/L	101	75	125	0	20	
Sulfate (1312-D)		M300.0 -	Ion Chroma	itograph	у							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	50		51.1	mg/L	102	90	110			
WG4040211CB	ICB	06/01/16 15 59				U	mg/L		-0.5	0.5			
WG407754													
WG407754LFB	LFB	08/05/16 17:40	WI160802-5	30		29.7	mg/L	99	90	110			
WG407586PBS	PBS	08/05/16 17 58				U	mg/L	~-	-0.5	0.5			
L31877-01AS	AS	08/05/16 18:34	WI160802-5	30	1.54	31.5	mg/L	100	90	110			
L31882-02DUP	DUP	08/05/16 19:28			8.35	10.5	mg/L				23	20	RD

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Thallium (1312)			M6020 I	CP-MS									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.05234	mg/L	105	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.0501		.04989	mg/L	100	80	120			
L31877-01DUP	DUP	08/15/16 18 22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.0501	U	.0489	mg/L	98	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.0501	U	.0499	mg/L	100	75	125	2	20	
Tin (1312)			M6010B	ICP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG407709													
WG407709ICV	ICV	08/05/16 13 19	1160714-4	2		2.094	mg/L	105	90	110			
WG407709ICB	ICB	08/05/16 13:22				U	mg/L		-0.12	0.12			
WG407509PBS	PBS	08/05/16 13:35				U	mg/L		-0.12	0.12			
WG407509LFB1	LFB	08/05/16 13:38	1160802-3	1.001		1.06	mg/L	106	85	115			
L31877-01DUP	DUP	08/05/16 13:51			U	U	mg/L				0	20	RA
L31882-01MS	MS	08/05/16 13:57	11160802-3	1.001	U	.992	mg/L	99	75	125			
L31882-01MSD	MSD	08/05/16 14:01	11160802-3	1.001	U	1.018	mg/L	102	75	125	3	20	
Uranium (1312)			M6020 I	CP-MS						-			
ACZ ID	Туре	Analyzed	PCN/SCN	ec	Sample	Found	Units	Rec	Lower	Upper.	RPD	Limit	Qual
WG408178									neo ane sua				
WG408178ICV	ICV	08/15/16 17 54	MS160720-6	.05		.0515	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0003	0.0003			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0003	0.0003			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05		.04865	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18:22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.05	U	.0489	mg/L	98	75	125			
L31882-02MSD	MSD	08/15/16 18:44	MS160729-2	.05	U	.04931	mg/L	99	75	125	1	20	
Vanadium (1312	:)		M6020 I	CP-MS									and and allow a <u>second states of the second states</u>
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408178													
WG408178ICV	ICV	08/15/16 17 54	MS160720-6	.05		.04819	mg/L	96	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.0006	0.0006			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.0006	0.0006			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.05005		.04808	mg/L	96	80	120			
L31877-01DUP	DUP	08/15/16 18:22			.0036	.00334	mg/L				7	20	
L31882-02MS	MS	08/15/16 18 41	MS160729-2	.05005	.0011	.04794	mg/L	94	75	125			
L31882-02MSD	MSD												



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Zinc (1312)			M6020 IC	P-MS									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	dual
WG408178													
WG408178ICV	ICV	08/15/16 17:54	MS160720-6	.05		.0513	mg/L	103	90	110			
WG408178ICB	ICB	08/15/16 17:57				U	mg/L		-0.006	0.006			
WG407509PBS	PBS	08/15/16 18:10				U	mg/L		-0.006	0.006			
WG407509LFB2	LFB	08/15/16 18:13	MS160729-2	.050135		.0487	mg/L	97	80	120			
L31877-01DUP	DUP	08/15/16 18 22			U	U	mg/L				0	20	RA
L31882-02MS	MS	08/15/16 18:41	MS160729-2	.050135	U	.048	mg/L	96	75	125			
L31882-02MSD	MSD	08/15/16 18 44	MS160729-2	.050135	U	.0492	mg/L	98	75	125	2	20	

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ACZ Project ID: L31882

ACZID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L31882-01	WG407709	Aluminum (1312)	M6010B ICP	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non- homogeneity of the sample.
	WG408178	Antimony (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Beryllium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Boron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Cadmium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chromium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Cobalt (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Copper (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Iron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Lead (1312)	M6020 ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non- homogeneity of the sample.
	WG407709	Lithium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Magnesium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Manganese (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407747	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Molybdenum (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nickel (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Potassium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Selenium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Silver (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Sodium (1312)	M6010B ICP		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Thallium (1312)	M6020 ICP-MS		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Tin (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

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Inorganic Extended **Qualifier Report**

ACZ ID WORK	NUM	PARAMETER	METHOD	QUAL	DESCRIPTION
WG408	8178	Uranium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Zinc (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG407	633	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
WG407	754	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG40	675	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			SM5310B	Q6	Sample was received above recommended temperature,
			SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG40	633	Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
WG40	754	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG40	7633	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature,
WG40	7648	Fluoride (1312 Dł)	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG40	7633	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature
WG40	687	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
WG407	773	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

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ACZ ID V	VORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
v	VG407689	Phosphorus, ortho dissolved (1312-DI)	M365,1 - Automated Ascorbic Acid		Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic Acid		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
V	VG407761	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)		Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
V	VG407635	Residue, Filterable (TDS) @180C (1312)	SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
V		Residue, Non-Filter (TSS) @180C (1312)	SM2540D		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
V	VG407754	Sulfate (1312-DI)	M300.0 - Ion Chromatography		Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography		For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non- homogeneity of the sample.
V	VG407633	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

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Inorganic Extended **Qualifier Report**

ACZ Project ID: L31882

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L31882-02	WG407709	Aluminum (1312)	M6010B ICP	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non- homogeneity of the sample.
	WG408178	Antimony (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Beryllium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Boron (1312)	M6010B ICP	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Cadmium (1312)	M6020 ICP-MS	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chromium (1312)	M6020 ICP-MS	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Cobalt (1312)	M6020 ICP-MS	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Copper (1312)	M6020 ICP-MS		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Iron (1312)	M6010B ICP	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Lead (1312)	M6020 ICP-MS		For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non- homogeneity of the sample.
	WG407709	Lithium (1312)	M6010B ICP	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Magnesium (1312)	M6010B ICP	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Manganese (1312)	M6020 ICP-MS	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407747	Mercury (1312)	M7470A CVAA M7470A CVAA	Q6 RA	Sample was received above recommended temperature. Relative Percent Difference (RPD) was not used for data
	WG408178	Molybdenum (1312)	M6020 ICP-MS	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). Relative Percent Difference (RPD) was not used for data
	100400170				validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	MC 407700	Nickel (1312)	M6020 ICP-MS	RA	validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709		M6010B ICP		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Selenium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Silver (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407709	Sodium (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408178	Thallium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL),
	WG407709	Tin (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL),

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GZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

42 MWT Mining Co, LLC

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Inorganic Extended Qualifier Report

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG408178	Uranium (1312)	M6020 ICP-MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Zinc (1312)	M6020 ICP-MS	RA	
	WG407633	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407754	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407675	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407754	Chloride (1312-Dl)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG407648	Fluoride (1312 DI)	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407633	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG407687	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407773	Nitrogen, ammonia (1312-DI)	M350.1 Auto Səlicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

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Inorganic Extended **Qualifier Report**

ACZ Project ID: L31882

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature,
	WG407689	Phosphorus, ortho dissolved (1312-DI)	M365_1 - Automated Ascorbic Acid		Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic Acid		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407761	Phosphorus, Total (1312-DI)	M365_1 - Auto Ascorbic Acid (digest)		Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Auto Ascorbic Acid (digest)		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407635	Residue, Filterable (TDS) @180C (1312)	SM2540C		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407636	Residue, Non-Filter (TSS) @180C (1312)	SM2540D		Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG407754	Sulfate (1312-DI)	M300.0 - Ion Chromatography		Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography		For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non- homogeneity of the sample.
	WG407633	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

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Certification Qualifiers

ACZ Project ID: L31882

42 MWT Mining Co, LLC

Wet Chemistry

wer chemistry		
The following parameters are not offered for certification or a	are not covered by NELAC certificate #ACZ.	
Bicarbonate as CaCO3	SM2320B - Titration	
Bromide (1312-DI)	M300.0 - Ion Chromatography	
Carbonate as CaCO3	SM2320B - Titration	
Chloride (1312-DI)	M300.0 - Ion Chromatography	
Conductivity @25C (1312-DI)	SM2510B	
Fluoride (1312 DI)	SM4500F-C	
Hydroxide as CaCO3	SM2320B - Titration	
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	
Residue, Filterable (TDS) @180C (1312)	SM2540C	
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	
Sulfate (1312-DI)	M300.0 - Ion Chromatography	
Total Alkalinity	SM2320B - Titration	

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	ACZ Project ID:	L31882
42 MWT Mining Co, LLC	-	07/21/2016 10:16
	Received By:	kmo
	Date Printed:	7/22/2016
Receipt Verification		
1) Is a foreign soil permit included for applicable samples?	YE	S NO NA X
2) Is the Chain of Custody form or other directive shipping papers present?	X	
3) Does this project require special handling procedures such as CLP protocol?		X
4) Are any samples NRC licensable material?		X
5) If samples are received past hold time, proceed with requested short hold time an	alvses? X	
6) Is the Chain of Custody form complete and accurate?	X	
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the A change was made in the Project Information and Invoice section prior to ACZ custody.		1
Samples/Containers		
	YES	S NO NA
8) Are all containers intact and with no leaks?	×	
9) Are all labels on containers and are they intact and legible?	X	
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and	Time? X	
11) For preserved bottle types, was the pH checked and within limits? ¹		X
12) Is there sufficient sample volume to perform all requested work?	×	
13) Is the custody seal intact on all containers?		X
14) Are samples that require zero headspace acceptable?		X
15) Are all sample containers appropriate for analytical requirements?	X	
16) Is there an Hg-1631 trip blank present?		X
17) Is there a VOA trip blank present?	1	X
18) Were all samples received within hold time?	X	
Chain of Custody Related Remarks		
Client Contact Remarks		Aston Alassa
Shipping Containers		医副线和 20
	tody Seal Intact?	a Tala, da pangangangan sa kanana sa kata kata kata kata kata kata kata
NA24376 10.8 NA 15 Yes		
Was ice present in the shipment container(s)?		
No - Wet or gel ice was not present in the shipment containe	r(s).	
Client must contact an ACZ Project Manager if analysis should not proceed	for samples receiver	4

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

REPAD LPII 2012-03





L31882	ACZ Project ID:
07/21/2016 10:16	Date Received:
kmo	Received By:
7/22/2016	Date Printed:

¹ The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCI preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

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Company: 42 MUTY	Mining (0 11		asa	410	51	42/	0	
E-mail:			ohone:	979-	482-	435	<u> </u>	
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Name: Charles	R-Ponchak	E-ma	uit: C	ndpo	nchak	06	new · le	24
Company: 42MWT	Mungle LL	Tele	ohone:	970-6	249-	2081	<u> </u>	_
Invoice to:	and the second state of the second	A REAL	، باستولزی ماریک میک				a star for	
Name: Mickou W	TIMPĤ	Addr	ess: P	D. Bor	1 14	43		
Company: 42 W Wt Y	Remala LL		in	u. l	9 8	-142	-7	
E-mail: Mickey Three @7	Grus Barge, Lom	Tele	phone: C	/				
If sample(s) received past holdin	g time (HT), or if insufficie	ent HT remains	to comple	ete , /	٨	YES		
analysis before expiration, shall HTNOT then ACZ will contact client for further leater			alyses?	NI	T	NO		
Are samples for SDWA Complian	and the second se	Yes		No	T RI	- age we be qui		
If yes, please include state forms			orado.		المحجور			
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*Sampler's Signature	Each "states	to the authenticity and u g with the sample is any	nicity of this ser may, is consider	mple: Euroderstand H ad fraud and purish	nat intentionally m able by State Law.	islabeling the time	/dem/location or	
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Check box if samples include NRC								
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L31882 Chain of Custody

L31882-1608181444



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Matrix: Soil 2	Mine Rock Samples for SPLP Metals and Wetche	em	
arameter	Method	DetectionLimit	Cost/Sample
norganic Prep			
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)		\$0.00
Total Hot Plate Digestion	M3010A ICP		\$0.00
Total Hot Plate Digestion	M3010A ICP-MS		\$0.00
Metals Analysis			
Aluminum (1312)	M6010B ICP	0.03 mg/L	\$10.00
Antimony (1312)	M6020 ICP-MS	0.0004 mg/L	\$19.00
Arsenic (1312)	M6020 ICP-MS	0.0002 mg/L	\$19.0
Barium (1312)	M6020 ICP-MS	0.0005 mg/L	\$19.0
Beryllium (1312)	M6020 ICP-MS	0.00005 mg/L	\$19.0
Boron (1312)	M6010B ICP	0.01 mg/L	\$10.0
Cadmium (1312)	M6020 ICP-MS	0.0001 mg/L	\$19.0
Calcium (1312)	M6010B ICP	0.1 mg/L	\$10.0
Chromium (1312)	M6020 ICP-MS	0.0005 mg/L	\$19.0
Cobalt (1312)	M6020 ICP-MS	0.00005 mg/L	\$19.0
Copper (1312)	M6020 ICP-MS	0.0005 mg/L	\$19.0
Iron (1312)	M6010B ICP	0.02 mg/L	\$10.0
Lead (1312)	M6020 ICP-MS	0.0001 mg/L	\$19.0
Lithium (1312)	M6010B ICP	0.008 mg/L	\$10.0
Magnesium (1312)	M6010B ICP	0.2 mg/L	\$10.0
Manganese (1312)	M6020 ICP-MS	0.0005 mg/L	\$19.0
Mercury (1312)	M7470A CVAA	0.0002 mg/L	\$26.0
Molybdenum (1312)	M6020 ICP-MS	0.0005 mg/L	\$19.0
Nickel (1312)	M6020 ICP-MS	0.0006 mg/L	\$19.0
Potassium (1312)	M6010B ICP	0.2 mg/L	\$10.0
Selenium (1312)	M6020 ICP-MS	0.0001 mg/L	\$19.0
Silica (1312)	M6010B ICP	0.214 mg/L	\$10.0
Silver (1312)	M6020 ICP-MS	0.00005 mg/L	\$19.0
Sodium (1312)	M6010B ICP	0.2 mg/L	\$10.0
Strontium (1312)	M6010B ICP	0.005 mg/L	\$10.0
Thallium (1312)	M6020 ICP-MS	0.0001 mg/L	\$19.0
Tin (1312)	M6010B ICP	0.04 mg/L	\$10.0
Uranium (1312)	M6020 ICP-MS	0.0001 mg/L	\$19.0
Vanadium (1312)	M6020 ICP-MS	0.0002 mg/L	\$ 19.0
Zinc (1312)	M6020 ICP-MS	0.002 mg/L	\$19.0

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Laboratories, Inc.





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Misc.			
Electronic Data Deliverable			\$0.00
Quality Control Summary			\$0.00
Sample Preparation			
Synthetic Precip. Leaching Procedure	M1312		\$75.00
Synthetic Precip. Leaching Procedure	M1312, DI Water		\$75.00
Soil Analysis			
рН, (1312)	M9045D/M9040C	0.1 C	\$8.00
Sample Weight	Rad Disposal Compliance	g	\$7.00
Wet Chemistry			
Alkalinity (1312 DI)	SM2320B - Titration	2 mg/L	\$11.00
Bromide (1312-DI)	M300.0 - Ion Chromatography	0.05 mg/L	\$13.00
Carbon, total organic (TOC) (1312-DI)	SM5310B	1 mg/L	\$36.00
Chloride (1312-DI)	M300.0 - Ion Chromatography	0.5 mg/L	\$13.00
Conductivity @25C (1312-DI)	SM2510B	1 umhos/cm	\$8.00
Fluoride (1312 DI)	SM4500F-C	0.05 mg/L	\$11.00
Hardness as CaCO3 (1312)	SM2340B - Calculation	Calculation	\$0.00
Nitrate (1312 DI)	Calculation: NO3NO2 minus NO2	Calculation	\$0.00
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Redu	0.02 mg/L	\$11.00
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Redu	0.01 mg/L	\$11.00
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusi	0.05 mg/L	\$11.00
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	0.02 mg/L	\$11.00
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	0.02 mg/L	\$28.00
Residue, Filterable (TDS) @180C (1312)	SM2540C	10 mg/L	\$13.00
Residue, Non-Filter (TSS) @180C (1312)	SM2540D	5 mg/L	\$11.00
Sulfate (1312-DI)	M300.0 - Ion Chromatography	0.5 mg/L	\$13.00
		Cost/Sample:	\$844.00

This quote is based on a Standard Turn Around Time of approximately 21 days for soil and solid matrices (15 business days). TAT may vary with seasonal heavy workload. Please contact your PM if rush TAT is required. Rush TAT needs to be pre-approved prior to sample shipment to assure that due dates can be met. Pricing includes standard reporting formats and standard ACZ EDDs. All projects received are subject to a \$125.00 Minimum Charge. Please note that method detection limits are estimates and may be elevated depending on sample matrix that require dilution. Pricing includes coolers, soil jars or bags, labels, COCs and ice-packs (if needed for your analysis), shipped to your site or office via UPS ground. Return shipping is the responsibility of the client. Please allow ample time for your bottles to arrive. Please note that soil preparation charges may change based on the condition and volume of sample(s) upon receipt. Wet samples may increase the TAT if air-drying is needed required. ACZ assigns a Project Manager to all of our clients. Your Project Manager is Max Janicek and he will serve as your main point of contact for all bottle orders, report statuses, questions on your data and changes to your account. Max can be reached at maxi@acz.com or 970-879-6590 ext 128.

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Quoto Number RUEV-IRUST-MINESPLP

CONTRACT DETAILS

Pricing includes shipment of all standard sample containers and related paperwork by UPS Ground Service. Please allow three to five days for delivery when ordering containers. ACZ must be notified prior to receiving samples of all special requests such as electronic data deliverables or special reporting regirements. The client will be charged for special sample containers or express shipping and additional charges may apply for non-standard requests.

This quotation is valid for six months from the bid date unless specified otherwise in the bid. All bids must be signed and returned to ACZ before the project(s) is received. The authorized signature represents acceptance of the pricing as well as the general terms and conditions of ACZ Laboratories, Inc. which may be downloaded from our web site at http://www.acz.com/PDF/termsconditions.pdf. Please note that MDL's in this quote may possibly increase due to sample matrix or samples with high TDS.

All orders that require shipping of coolers are subject to a minimum charge of \$200.00. Local orders without shipping are subject to a minimum charge of \$125.00. Samples may incur a \$11.00/sample disposal fee for any samples deemed to be hazardous.

ACZ Representative (Authorized signature and date)

Client Representative (Authorized signature and date)

M. By W. T-

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S/ sh D/ ## P/

	Inc. Account Setup Form
2773 Downhill Drive, Steamboat springs, CO 80487 (800) 334-5493 sales	
An account must be setup with ACZ prior to the labora	tory receiving any samples. Please fill out the
information requested below and email it back along w	
of the credit application, ACZ also accepts major credit	
phone if paying with a credit card. All information is re	
ReportingContact	
Name: 42 MWT MINING CO. LLC	State:
Company name:	Zip:
Address:	Phone:
	Fax:
City:	Email:
Copied on Reports a second of the second	
Name: Mickey W. TINER	State:
Company name: 42 MWT Mining Colle	Zip:
Address: PO Box 1443	Phone: 970-325-4583
	Fax:
City: Oscan Co. Bict27	Email:
Shipping Contract	
Name: Phonolock, Princhell	
Company name: AZ MILLIT MILLING A 110	State:
Address (No POBs): 15292 6056 Val	Zip: Phone: 670 - 249 - 2081
1001000 (1101 000). 12 292 6050 KG	Phone: 970 - 249 - 2081 Fax:
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Billing,Contact	
Name: Michey W. TINER	State:
Company name: 42 MWT MINING CO LLC	Zip:
Address: P.O Box 1443	Phone: 979-482-4339
	Fax:
City: OURAY (0. 81427	Email:
Additional Comments	

ILABID CLIENT	CLIENTID FDEPTNAM COLLECTIRECEIVELANALYTE MATRIX	METHOD RESULT TEXTRESIQUAL	UNITS	MDL	POL ANALYZEI ANALYSI	CAS
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Aluminum SO	M6010B IC 0.26 0.26	mg/L	0.03	0.2 8/5/2016 gss	7429-90-5
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Antimony (ISO	M6020 ICF 0.0018 0.0018 B	mg/L	0.0004	0.002 8/15/2016 enb	7440-36-0
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Arsenic (1: SO	M6020 ICF 0.0009 0.0009 B	mg/L	0.0002	0.001 8/15/2016 enb	7440-38-2
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Barium (12 SO	M6020 ICF 0.1309 0.1309	mg/L	0.0005	0.003 8/15/2016 enb	7440-39-3
L31882-01 #1		M6020 ICP-MS U	mg/L	0.00005	0.0003 8/15/2016 enb	7440-41-7
L31882-01 #1	Metals Ans 7/15/2016 7/21/2016 Boron (131SO	M6010B ICP U	mg/L	0.01	0.05 8/5/2016 gss	7440-42-8
L31882-01 #1	7/21/2016 C	-MS	mg/L	0.0001	ω.	7440-43-9
L31882-01 #1	Metals Ane 7/15/2016 7/21/2018 Calcium (1 SO	M6010B IC 11.2 11.2	mg/L	0.1	0.5 8/5/2016 gss	7440-70-2
L31882-01 #1	Metals An: 7/15/2016 7/21/2016 Chromium SO	M6020 ICP-MS U	mg/L	0.0005		7440-47-3
L31882-01#1	Metals Ans 7/15/2016 7/21/2016 Cobalt (13 SO	M6020 ICP-MS U	mg/L	0.00005	0.0003 8/15/2016 enb	7440-48-4
L31882-01#1	Metals And 7/15/2016 7/21/2016 Copper (15 SO	M6020 ICP-MS	mg/L	0.0005	0.003 8/15/2016 enb	7440-50-8
L31882-01#1	Metals Ans 7/15/2016 7/21/2016 Iron (1312) SO	M6010B ICP U	mg/L	0.02.	0.05 8/5/2016 gss	7439-89-6
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Lead (1312SO	M6020 ICP-MS	mg/L	0.0001	0.0005 8/15/2016 enb	7439-92-1
L31882-01 #1	7/21/2016 L	M6010B ICP U	mg/L	0.008	0.04 8/5/2016 gss	7439-93-2
L31882-01 #1	Metals Ans 7/15/2016 7/21/2016 Magnesiun SO	M6010B IC 0.4 0.4 B	mg/L	0.2	1 8/5/2016 gss	7439-95-4
L31882-01#1	Metals Ane 7/15/2016 7/21/2016 Manganes SO	M6020 ICF 0.0068 0.0068	mg/L	0.0005	0.003 8/15/2016 enb	7439-96-5
L31882-01#1	Metals Anc 7/15/2016 7/21/2016 Mercury (1 SO	M7470A CVAA U	mg/L	0.0002	0.001 8/10/2016 pta	7439-97-6
L31882-01#1	Metals Ane 7/15/2016 7/21/2016 Molybdenu SO	M6020 ICP-MS U	mg/L	0.0005	0.003 8/15/2016 enb	7439-98-7
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Nickel (13 SO	M6020 ICP-MS U	mg/L	0.0006	0.003 8/15/2016 enb	7440-02-0
L31882-01#1	Metals Ane 7/15/2016 7/21/2016 Potassium SO	M6010B IC 2.9 2.9	mg/L	0.2	1 8/5/2016 gss	7440-09-7
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Selenium (SO	M6020 ICF 0.0015 0.0015	mg/L	0.0001	0.0003 8/15/2018 enb	7782-49-2
L31882-01#1		M6010B IC 4.3 4.3	mg/L	0.2		7631-86-9
L31882-01 #1	Metals An: 7/15/2016 7/21/2016 Silver (131 SO	M6020 ICF 0.00006 0.00006 B	mg/L	0.00005	0.0003 8/15/2016 enb	7440-22-4
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Sodium (1. SO	M6010B IC 2.5 2.5	mg/L	0.2	1 8/5/2016 gss	7440-23-5
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Strontlum + SO	M6010B IC 0.329 0.329	mg/L	0.005	0.03 8/5/2016 gss	7440-24-6
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Thallium (1SO	M6020 ICP-MS	mg/L	0.0001	0.0005 8/15/2016 enb	7440-28-0
L31882-01 #1	7/21/2016 Tin (1312)		mg/L	0.04	0.2 8/5/2016 gss	7440-31-5
L31882-01#1	Metals Ane 7/15/2016 7/21/2016 Uranium (1SO	M6020 ICP-MS	mg/L	0.0001	0.0005 8/15/2016 enb	7440-61-1
L31882-01 #1	7/21/2016 \	M6020 ICF 0.0008 0.0008 B	mg/L	0.0002	0.001 8/15/2016 enb	7440-62-2
L31882-01 #1	Metals Ane 7/15/2016 7/21/2016 Zinc (1312 SO	M6020 ICP-MS	mg/L	0.002	0.005 8/15/2016 enb	7440-66-6
L31882-01 #1		M9045D/W 9 9.0	units	0.1	0.1 8/3/2016 arc	
L31882-01 #1	Soil Analys 7/15/2016 7/21/2016 pH measur SO	M9045D/N 22.6 22.6	o	0.1	0.1 8/3/2016 arc	
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Bicarbonat SO	SM2320B 21.9 21.9	mg/L	3		10139
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Bromide (1SO	M300.0 - Ion Chromat U	mg/L	0.05	0.25 8/10/2016 bsu	
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Carbon, to SO		mg/L			10355
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Carbonate SO	SM2320B 7.8 7.8 B	mg/L	N	20 8/4/2016 abd	
L31882-01 #1	Wet Chem 7/15/2016 7/21/2018 Chloride (1 SO	M300.0 - Ion Chromat U	mg/L	0.5		16887-00-6
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Conductiv SO	114 114	umhos/cr	-	10 8/4/2016 abd	
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Fluoride (1 SO	0	mg/L	0.05		16984-48-8
L31882-01 #1	7/21/2016 Hardness :	SM2340B 30.30	mg/L	0.2	œ	
L31882-01 #1	7/21/2016 Hydroxide	- Titration	mg/L	8		
L31882-01 #1	7/21/2016 1	0.03 0.03	mg/L	0.02	æ	
L31882-01#1	Wet Chem 7/15/2016 7/21/2016 Nitrate/Nitr SO		mg/L	0.02	0.1 8/4/2016 pjb	
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Nitrite as NSO		mg/L	0.01	_	NO2-N
L31882-01#1	7/21/2016 1	0.43	mg/L	0.05		
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Phosphoru SO	M365.1 - A 0.02 0.02 B	mg/L	0.02		7723-14-0
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Phosphoru SO	M365.1 - Auto Ascorb U	mg/L	0.02		7723-14-0
L31882-01 #1		SM2540C 70 70	mg/L	10		
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Residue, NSO	SM2540D U	mg/L	2	20 8/4/2016 abd	

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L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Sulfate (13 SO	M300.0 - lc 1	11.7 11.7		mg/L	0.5	2.5	8/5/2016 bsu	14808-79-8
L31882-01 #1	Wet Chem 7/15/2016 7/21/2016 Total Alkal SO	SM2320B 2	29.7 29.7		mg/L	2	20	8/4/2016 abd	10093
L31882-02 #2	Metals Anc 7/15/2016 7/21/2016 Aluminum SO	M6010B IC 0	0.39 0.39		mg/L	0.03	0.2	8/5/2016 ass	7429-90-5
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Antimony (SO	M6020 ICF 0.	0.002 0.0020		mg/L	0.0004			7440-36-0
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Arsenic (1:SO	M6020 ICF 0.0	0.0012 0.0012	i 	mg/L	0.0002	0.001	8/15/2016 enb	7440-38-2
L31882-02 #2	Metals Ani 7/15/2016 7/21/2016 Barium (13 SO	M6020 ICF 0.1	0.1123 0.1123		mg/L	0.0005	0.003	0.003 8/15/2016 enb	7440-39-3
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Beryllium (SO	M6020 ICP-MS			mg/L	0.00005	0.0003	0.0003 8/15/2016 enb	7440-41-7
L31882-02 #2	Metals Ans 7/15/2016 7/21/2016 Boron (131SO	M6010B ICP		D	mg/L	0.01	0.05	8/5/2016 gss	7440-42-8
L31882-02 #2	Metals Ans 7/15/2016 7/21/2016 Cadmium (SO	M6020 ICP-MS		-	mg/L	0.0001	0.0005 4	8/15/2016 enb	7440-43-9
L31882-02 #2	Metals Ans 7/15/2016 7/21/2016 Calcium (1 SO	M6010B IC	8.5 8.5		mg/L	0.1	0.5	8/5/2016 gss	7440-70-2
L31882-02 #2	Metals Ani 7/15/2016 7/21/2016 Chromium SO	M6020 ICP-MS		- -	mg/L	0.0005	0.002	8/15/2016 enb	7440-47-3
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Cobalt (13 SO	M6020 ICP-MS		* * *	mg/L	0.00005	0.0003	8/15/2016 enb	7440-48-4
L31882-02 #2	Metals Ant 7/15/2016 7/21/2016 Copper (15SO	M6020 ICF 0.0	0.0012 0.0012	ß	mg/L	0.0005	0.003	8/15/2016 enb	7440-50-8
L31882-02 #2	Metals Ant 7/15/2016 7/21/2016 Iron (1312)SO	M6010B IC C	0.03 0.03	6	mg/L	0.02	0.05	8/5/2016 gss	7439-89-6
L31882-02 #2	Metals Ant 7/15/2016 7/21/2016 Lead (1312SO	M6020 ICF 0.0	0001 0.0001		mg/L	0.0001	0.0005 4	8/15/2016 enb	7439-92-1
L31882-02 #2		M6010B ICP) D	mg/L	0.008	0.04	8/5/2016 gss	7439-93-2
L31882-02 #2			0.3 0.3		mg/L	0.2	-	8/5/2016 gss	7439-95-4
L31882-02 #2		O	0035:0.0035	-	mg/L	0.0005	0.003	8/15/2016 enb	7439-96-5
L31882-02 #2		M7470A CVAA		- -	mg/L	0.0002	0.001	8/10/2016 pta	7439-97-6
L31882-02 #2		M6020 ICP-MS			mg/L	0.0005	0.003	8/15/2016 enb	7439-98-7
L31882-02 #2	Metals Ant 7/15/2016 7/21/2016 Nickel (13-SO	M6020 ICP-MS		- -	mg/L	0.0006	0.003	8/15/2016 enb	7440-02-0
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Potassium SO	M6010B IC	2.6 2.6		mg/L	0.2		8/5/2016 gss	7440-09-7
L31882-02 #2	Metals Ant 7/15/2016 7/21/2016 Selenium (SO		0.001 0.0010	-	mg/L	0.0001	0.0003	8/15/2016 enb	7782-49-2
L31882-02 #2	Metals Ani 7/15/2016 7/21/2016 Silica (131 SO	M6010B IC	5.5 5.5		mg/L	0.2		8/5/2016 gss	7631-86-9
L31882-02 #2	Metals Ant 7/15/2016 7/21/2016 Silver (131 SO	M6020 ICP-MS		5	mg/L	0.00005	0.0003	8/15/2016 enb	7440-22-4
L31882-02 #2	7/21/2016	M6010B IC	3.3	-	mg/L	0.2	-	8/5/2016 gss	7440-23-5
L31882-02 #2	Metals Ans 7/15/2016 7/21/2016 Strontium (SO	M6010B IC 0.	223 0.223	_	mg/L	0.005	0.03	8/5/2016 gss	7440-24-8
L31882-02 #2	7/21/2016 Thallium (1	M6020 ICP-MS		2	mg/L	0.0001	0.0005	8/15/2016 enb	7440-28-0
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Tin (1312) SO	M6010B ICP		n	mg/L	0.04	0.2	8/5/2016 gss	7440-31-5
L31882-02 #2		M6020 ICP-MS		5	mg/L	0.0001		8/15/2016 enb	7440-61-1
L31882-02 #2	Metals Ane 7/15/2016 7/21/2016 Vanadium SO	M6020 ICF 0.0	0.0011 0.0011	_	mg/L	0.0002	0.001	8/15/2016 enb	7440-62-2
L31882-02 #2	Metals Ans 7/15/2016 7/21/2016 Zinc (1312 SO	M6020 ICP-MS	-	2	mg/L	0.002	0.005 (8/15/2016 enb	7440-66-8
L31882-02 #2	7/21/2016 pH	M9045D/N	9.1.9.1		units	0.1	0.1	8/3/2016 arc	
L31882-02 #2		1	22.7 22.7		o	0.1	0.1	8/3/2016 arc	
L31882-02 #2	7/15/2016 7/21/2016		17.5 17.5	8	mg/L	5		8/4/2016 abd	10139
L31882-02 #2	7/21/2016	M300.0 - Ion Chroma	mat		mg/L	0.05	0.25	8/10/2016 bsu	
L31882-02 #2					mg/L		2	8/4/2016 bsu	10355
L31882-02 #2		SM2320B 1	10.5 10.5	8	mg/L	2	20	8/4/2016 abd	
L31882-02 #2		on Chr	mat		mg/L	0.5	2.5	8/5/2016 bsu	16887-00-6
L31882-02 #2		SM2510B 8	98.1 98.1		umhos/cm	-	10	8/4/2016 abd	
L31882-02 #2		SM4500F- 0	0.18 0.18	ß	mg/L	0.05	0.3	8/4/2016 abd	16984-48-8
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Hardness (SO	SM2340B	23 23		mg/L	0.2	S	8/18/2016 calc	
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Hydroxide SO	SM2320B - Titration	no		mg/L	8	20	8/4/2016 abd	
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Nitrate (13 SO	Calculation	0.06 0.06	6	mg/L	0.02		8/18/2016 calc	
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Nitrate/Nitr SO	M353.2 - A C	0.06 0.06		mg/L	0.02	0.1	8/4/2016 pjb	
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Nitrite as NSO	M353.2 - Automated C	ed C		mg/L	0.01	0.05	8/4/2016 pjb	NO2-N
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Nitrogen, a SO	M350.1 Au 0	0.64 0.64		mg/L	0.05	0.2	8/6/2016 krh	
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Phosphoru SO	M365.1 - Automated A	ed A		mg/L	0.02	0.05	8/4/2016 pjb	7723-14-0
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Phosphoru SO	M365.1 - Auto Ascorb	corb	2	mg/L	0.02	0.05	8/5/2016 p b	7723-14-0
L31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Residue, FSO	SM2540C	56 56	-	mg/L	10	20	8/4/2016 abd	

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31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Residue, NSO	SM2540D		2	mg/L	 ŝ	20	8/4/2016 abd	
31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Sulfate (13 SO	M300.0 - 1c	8.35 8.35		mg/L	0.5	2.5	8/5/2016 bsu	14808-79-8
-31882-02 #2	Wet Chem 7/15/2016 7/21/2016 Total Alkal SO	SM2320B	28 28.0	~~~~	mg/L	 2	20	8/4/2016 abd	10093