

То	Diana Furman	Ref #	2020-13-04-TM
сс		Date	1/30/2020
From	Landon Beck		
Subject	GCC Pueblo Plant 2019 Annual Groundwater Monite	oring Re	eport

This technical memorandum serves as the annual groundwater report to the Colorado Division of Reclamation, Mining and Safety (CDRMS) for the GCC Rio Grande, Inc. (GCC) Pueblo Cement Plant and Quarry (the facility) and documenting groundwater monitoring activities, results and interpretations for 2019.

GROUNDWATER MONITORING

Monitoring was performed by GCC, or their designated contractor with coordination by GCC, as required by Technical Revisions three and seven (TR-03 and TR-07). The monitoring was performed at three environmental monitoring wells, MW-005, MW-6 and MW-7.

GROUNDWATER MONITORING LOCATIONS

In 2019 GCC monitored three groundwater monitoring wells at the facility, which are shown on the location map included as **Figure 1**:

- MW-005 completed in unconsolidated surficial sediments above bedrock at a location presumed to be downgradient of the entire facility, including both the quarry and plant.
- MW-6 completed in the Fort Hays Limestone just down-dip, and presumed to be downgradient of Mine Panel 2 and upgradient of the plant.
- MW-7 completed in the Fort Hays Limestone just down-dip, and presumed to be downgradient of Mine Panel 2 and upgradient of the plant. This well is completed across a fault in the Fort Hays Limestone that was documented when exposed during mining of Panel 2. MW-7 is located approximately 25 feet northwest of MW-6.

GROUNDWATER MONITORING DATA COLLECTION

Groundwater monitoring was conducted quarterly in 2019 at MW-6 and MW-7 and semi-annually (twice) at MW-005, as the latter has been observed dry since installation in 2008. For the wet wells MW-6 and MW-7 installed in December 2017, depth to water measurements, and field water quality parameters temperature, pH and specific conductance were documented for each monitoring event. These monitoring events also included water sample collection for submittal and analysis by an accredited environmental analytical laboratory.

GCC Pueblo Plant 2019 Annual Groundwater Monitoring Report

Industry-standard protocol for groundwater sample collection was utilized, specifically applying the Colorado Department of Public Health and Environment (CDPHE) Suggested Sampling Protocol for Ground Water Monitoring Wells. It is noted that this protocol is the foundation for a facility Sampling and Analysis Plan (SAP) in development for adoption in 2020 by GCC, pending submittal to and approval by CDRMS. The SAP will be the site-specific, standalone document guiding groundwater monitoring at the facility.

Groundwater was purged and sampled by means of plastic bailer for all monitoring events in 2019. Three-casing volumes were purged prior to sample collection, or otherwise the well was purged dry and revisited to collect a sample if possible, the following day. During the 2018-2019 period of record for MW-7 and MW-6, MW-6 has shown to be a very low-head, low-yield monitoring well typically resulting in a purge that evacuates the well bore. A period of several hours, if not waiting until the next day, has been required to obtain a representative water quality sample following the purge. However, MW-7, the adjacent well completed across a known Fort Hays fault, is a relatively high-head, high-yield monitoring well in which production to obtain a representative water quality sample has been adequate to date. Table 1 includes field parameters for each sample event and Attachment 1 is a compilation of all MW-6 and MW-7 "Groundwater Sampling Record" field forms completed by the sampler. MW-005 dry conditions have been documented by GCC in the form of semi-annual letters submitted to CDRMS for each event, which are on file under the facility DRMS permit M-2002-004 and not included here. In the future, MW-005 monitoring observations will be recorded on the facility "Groundwater Sampling Record" forms and conducted at the time of the guarter two and four MW-6 and MW-7 monitoring events and included in this annual report.

The CDRMS groundwater compliance constituents for the facility are given in **Table 1**. These constituents are required by TR-06 and represent the Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission Regulation 41, the basic standards for groundwater (herein after, reference standards). GCC is specifically subject to Table 3 of that document, Agricultural Standards, CDPHE 2016.

GROUNDWATER MONITORING DATA ANALYSIS

Analytical results from water quality samples collected from MW-6 and MW-7 are presented in **Table 1**. Samples were analyzed for major ions and trace elements, and compared to reference standards. Complete analytical laboratory reports for 2019 quarters three and four are provided as **Attachment 2**. 2019 quarter one and two lab reports have been submitted to CDRMS under separate cover, April 25, 2019 and September 10, 2019, respectively.

Observed water quality in the Fort Hays Limestone at locations MW-6 and MW-7 is characterized by near neutral to neutral pH, and total dissolved solids ranging from 5,030 to 6,740 μ S/cm. Generally, concentrations of analyzed constituents were less than the applicable reference standards, with two exceptions. Concentrations of manganese at MW-6 consistently exceeded the reference standard for approximately 80 percent of the samples collected at MW-6

GCC Pueblo Plant 2019 Annual Groundwater Monitoring Report

between 2018 and 2019. Although manganese exceeds the reference standard, the Colorado Water Quality Control Commission issued a decision that the reference standard is only applicable where pH values are less than 6.0. Because all water quality samples have a measured pH value of greater than 6.0, less emphasis is placed on the exceedance of manganese of the reference standard. Selenium exceeds the reference standard for three of seven (approaching 45%) and two of seven (approximately 30%) samples collected from MW-6 and MW-7, respectively. The occurrence and abundance of selenium in groundwater of the Fort Hays Limestone is likely attributed to naturally-occurring seleniferous minerals deposited in a marine environment. The increasing concentration trend since well installation approximately two years ago is probably due to continued natural development of the well with time, a process that is subject to factors including limited groundwater recharge and flow in fractured rock. This condition can limit the success of two-inch monitoring well development typically conducted immediately after drilling and installation. Additionally, the drilling and well completion across the observed fault system possibly created new flow paths which can be expected to create dynamic water quality conditions for some time until a new equilibrium is reached. Groundwater under hydrostatic confining pressure derived from fractures will flow from discrete fractures into the wellbore and travel within the filter pack to contact fresh rock surfaces that had not previously been exposed to groundwater, also contributing to an evolution of groundwater chemistry.

Although both MW-6 and MW-7 were completed in Fort Hays Limestone in relative close proximity to one another, differences observed in groundwater chemistry identify the mechanism for groundwater flow through faults and fracture zones, instead of continuous horizontal flowpaths. Additional monitoring wells intersecting the underlying Codell Sandstone will assist in defining site-wide and regional groundwater flow paths and provide additional basis to evaluate potential impacts from site activities.

Groundwater level data for the facility is limited to two Fort Hays Limestone monitoring wells, given the single unconsolidated overburden well MW-005 has been documented dry since installation in 2008. Of the two Fort Hays monitoring wells MW-6 and MW-7, initial evaluation of water level monitoring appears to indicate that MW-6 demonstrates that the non-faulted Fort Hays Limestone hosts a groundwater pressure regime that is derived from limited fracture networks with relatively low hydraulic conductivity and storage. However, over the course of monitoring in 2019, the static water level at MW-6 continued to increase from about 56 feet below ground surface (3/7/19) to 33 feet below ground surface (12/9/19). This is in contrast to the water level observations at MW-7, which is screened across a fault through the Fort Hays Limestone and presumably through the underlying bedrock units. The water level observed in MW-7 during 2019 was typically in the range of 15 feet higher than the level measured at MW-6, with notably greater production as observed during bailer purges. As the pressure regime continues to evolve toward a new equilibrium, superimposed over seasonal level fluctuations and quarry operations that will potentially increase direct Fort Hays Limestone groundwater recharge, continued water level monitoring and analysis will assist with future characterization. This will also be aided by additional bedrock groundwater monitoring well installation planned for 2020.

GCC Pueblo Plant 2019 Annual Groundwater Monitoring Report

QUALITY ASSURANCE/QUALITY CONTROL

In 2019 GCC collected and submitted one blind duplicate sample in the quarter two, three and four sampling events, which is given sample ID MW-2B. These duplicates were reported to have constituent concentrations within acceptable ranges of the named sample, which was MW-7 in quarter two and four and MW-6 in quarter three.

In 2019 quarter four, duplicate samples were collected at both MW-6 and MW-7 for comparative analysis by Origins Labs and ACZ Labs. Primarily this action was taken to evaluate the observation that selenium concentration results apparently increased only after GCC changed their primary contract water quality lab from Origins to ACZ. The results shown in **Table 1** indicate similar selenium concentrations reported by the separate labs for each well, thus suggesting an increasing selenium trend since well installation, rather than false or excessively elevated reported results by ACZ in the 2019 quarter two and three samples. Future compliance groundwater sampling will include standard submittal of 10% QA/QC blind duplicate or field blank samples per quarter (one sample for up to ten sites).

In the 2019 quarter three sample event, the MW-7 sample hold time was exceeded for nitrite/nitrate analysis. This occurred when the adjacent well MW-6 was dewatered during compliance sample well purging, forcing an extra day to collect the sample once the well adequately recovered. The nitrite/nitrate analysis hold time was not immediately recognized so both MW-6 and MW-7 samples were shipped on the same date, thus pushing the MW-7 sample one day beyond the two-day nitrite/nitrate analysis hold time. This particular hold time is now very much recognized by GCC and future compliance water samples will be shipped same day as collection for overnight delivery. That said, review of the MW-7 nitrite/nitrate results to date in **Table 1** appear to demonstrate an increasing concentration over time, specifically in nitrate. The trend appears to be coming into range with the adjacent MW-6 concentrations suggesting regardless of hold time exceedance, in this case the subject values are reasonable to meet the goal to assess baseline conditions.

One other note is that the groundwater samples submitted to ACZ Labs for 2019 quarter three were mistakenly reported on the chain of custody form to be sampled on December 9, 2019, rather than correctly as November 9, 2019. Subsequently the lab report in **Attachment 2** gives the incorrect December 9, 2019 sampling date, while the field forms in **Attachment 1** report the correct sampling date of November 9, 2019.

REFERENCES

Colorado Department of Public Health and Environment (CDPHE), Water Quality Control Commission, 2016. Regulation No. 41, The Basic Standards for Ground Water (5 CCR 1002-41), December 30.

GCC Pueblo Plant 2019 Annual Groundwater Monitoring Report

Colorado Department of Public Health and Environment (CDPHE), Water Quality Control Commission, Undated. Suggested Sampling Protocol for Ground Water Monitoring Wells.

FIGURE 1



TABLE 1

TABLE 1. SUMMARY OF 2018-2019 FIELD AND LABORATORY WATER QUALITY RESULTS

GCC Rio Grande, Inc. - Pueblo

Parameter	CO State Std	MW-6 Result	MW-7 Result	MW-7 Result	MW-7 Result	MW-7 Result	MW-7 Result	MW-7 Result	MW-7 Result	MW-7 Result	Origins	ACZ	Origins	ACZ	Units							
	(Ag Use)	(Origins)	(Origins)	(Origins)	(Origins)	(ACZ)	(ACZ)	(ACZ)	(Origins Dup)	(Origins)	(Origins)	(Origins)	(Origins)	(ACZ)	(ACZ)	(ACZ)	(Origins Dup)	MDL	MDL	PQL	PQL	
Date		1/3/2018	4/27/2018	12/12/2018	3/7/2019	6/12/2019	9/19/2019	12/9/2019	12/9/2019	1/3/2018	4/27/2018	12/12/2018	3/7/2019	6/12/2019	9/19/2019	12/9/2019	12/9/2019					
				-						FIELD												
рН	6.5 - 8.5	6.95	7.20	7.39	DRY	7.14	7.09	6.99	6.99	6.86	6.85	6.90	6.95	6.95	6.98	7.13	7.13					pH units
Specific Conductance		4720	6200	6500		5975	6382	6025	6025	4765	5820	6093	6020	5997	6197	5319	5319					μS
Temperature		14.0	16.3	14.9		18.2	16.1	11.8	11.8	15.0	15.0	14.0	13.7	18.0	20.8	12.2	12.2					deg C
										LABORATORY												
pH (lab)	6.5 - 8.5	NA	7.22	7.40				8.10	7.40	7.35	6.66	6.86	7.67			8.10	7.40					pH units
Aluminum (d)	5000	636	ND	ND		500	ND	ND	302	1350	ND	ND	ND	ND	400	ND	ND	68	300	200	1000	μg/L
Arsenic (d)	100	ND	ND	ND		ND	0.4	ND	ND	9.49 (J)	ND	ND	ND	ND	0.3	ND	ND	5	1/0.2	30	5/1	μg/L
Beryllium (d)	100	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	200/50	5	300	μg/L
Boron (d)	750	633	654	624		500	300	300	300	461	441	446	427	400	300	200	167	15	100	50	500	μg/L
Cadmium (d)	10	ND	ND	ND		0.3	0.26	ND	ND	ND	ND	ND	ND	ND	0.15	ND	ND	1	0.3 / 0.05	5	1/0.3	μg/L
Chromium (d)	100	ND	ND	ND		ND	ND	ND	2.66	ND	3.22	1	50	5	300	μg/L						
Cobalt (d)	50	4.23 (J)	18.8	6.01		ND	50	ND	22 (J)	1.35 (J)	ND	ND	1.97 (J)	ND	ND	ND	1.74	1	50	5	300	μg/L
Copper (d)	200	6.1 (J)	ND	ND		ND	ND	ND	ND	5.55 (J)	ND	3	50	10	300	μg/L						
Iron (d)	5000	474	55.6 (J)	ND		800	300	ND	229	1390	249	242	297	ND	800	ND	ND	30	200	100	400	μg/L
Lead (d)	100	ND	ND	3.99 (J)		2.2	0.4	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	3.3	0.5/0.1	10	3/0.5	μg/L
Lithium (d)	2500	664	689	476		520	490	490	466	779	665	571	557	620	480	440	404	3	40	10	200	μg/L
Manganese (d)	200	591*	1140*	663*		970*	580*	490*	459*	201*	166	101	152	140	100	ND	21.2	2	50	10	300	μg/L
Mercury (d)	10	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.067	0.2	0.2	1	μg/L
Nickel (d)	200	28.9	68.8	17.1		150	130	110	87.7	16.3	6.07	3.59 (J)	8.00	ND	ND	ND	20.1	1.5	40	5	200	μg/L
Selenium (d)	20	ND	ND	6.19 (J)		96.6*	140*	88*	106*	ND	ND	ND	ND	8.7	76.2*	90.3*	99.3*	6	0.5/0.1	30	1/0.3	μg/L
Vanadium (d)	100	ND	ND	1.16 (J)		ND	ND	ND	ND	2.3 (J)	ND	1	30	5	100	μg/L						
Zinc (d)	2000	24.8	ND	8.99 (J)		ND	ND	0.02	17.6	26.7	ND	10.2	9.56	ND	ND	ND	9.11	3.3	50	10	300	μg/L
				1	1	1	1				1	1	1	1	1	1						
Total Dissolved Solids		NS	5030	NA		5620	5860	5460	5690	5510	5270	NA	5640	5700	6740	5320	5230	14.3	100/40	14.3	200/80	mg/L
Fluoride (d)	2	NS	ND	ND		0.6	0.6	0.8	ND	0.415 (J)	ND	ND	0.32 (J)	0.5**	0.5	0.5	ND	1	0.1	1	0.4	mg/L
Nitrite (d)	10	NS	ND	ND		0.03	0.08	0.02	ND	ND	ND	ND	ND	0.01	0.02 (H, J)	0.08	ND	1	0.01	1	0.05	mg/L
N Nitrite & Nitrate (d)	100	ND	ND	ND		12.1	11.1	8.12	8.83	ND	ND	ND	0.0144	1.74**	10.1 (H)	14.3	16.2	0.02	0.02/0.1	0.02	0.1/0.5	mg/L

Notes:

* Exceeds CO State Agricultural Use Standard

** Exceeds or equals 2019 SAP field duplicate comparison criterion

(d) = dissolved

(J) = Result reported greater than the MDL but less than the PQL

(H) = Analysis exceeded method hold time

Dup = Duplicate Sample

ND = Not Detected above MDL

NA = Not Analyzed (lab error)

NS = Not Sufficient sample volume

Pre-2nd quarter 2019 laboratory analyses by Origins Laboratory; Denver, CO. 2nd quarter to present laboratory analyses by ACZ Laboratories, Steamboat, CO Where two MDLs or PQLs are listed for ACZ, the first represents June 2019 and the second represents September 2019

ATTACHMENT 1

	GROUN	IDWATE	R SAM	PLING F	RECOR)	SAMPLE N	IO. MW	1-6	erildikan oleh menerikan		
Project No:	06-00	1		Location: GCC	Puebl	· Pla	int	ana adamatanan	Page of 1	and a start st		
Date: 3/1	/19	Weather Cond	litions:	10°F			Personnel: B.Close	e/D. Fur	man /D.	Semis		
Comments:	Ist Q	uarte	r 20	19								
	nte contractoria provinsi inconst		-	INS	TRUMENTS L	ISED	wikiputa unificati mokulari supremiar					
Instru	ment	Manufactu	urer/Model	Seri	al No.	T		Calibration				
Water Level Probe	9	Gestec	h ET	675	7							
oH Meter		YSI Pro	1030	18510	3866	Std: 4 🗇 10	@18.8 °C R	teading 7, 9	s	Slope:		
oH Meter		Reading 4.0										
Specific Conducta	nce Meter	YSI Pro	1030	18510	3866	Std: 1413	uS @ 25 °C F	Reading 1413				
Specific Conducta	nce Meter					Std:	uS @ 25 °C F	Reading				
emperature		YSI Pro	1030	18510	3866							
Other:							the second s					
iltration	0.45 micron in	line high capa	city disposable	e filter.	A CONTRACTOR OF A CARD		and a second second second	and a state of the	document and a second second second			
				WELL PI	URGING INFO	RMATION						
asing Diameter (inches): 2		Borehole Diamete	er (inches): 6		Screened Interva	I (ft. BGL): 31.	1' - 56.1	1'			
epth to Water (ft	below MP): 5	6.03	Total Depth (ft):	59.55	Casing Volume (gal): 0.56	5	(gal/ft: 1.5" = 0.09	; 2" = 0.16; 4" = 0.6	5)		
urging Method:	Bailer	poly										
Comments:	Monitoring point (MP) is the top of the	e PVC well casing].								
		Depth to		Specific								
Date/	Vol. Purged	Water		Conductance	Temp	Appe	arance					
Time	(gal)	(feet below MP)	pH	(uS @ 25 deg C)	(deg C)	(color, sec	diment, etc.)		Comments			
0925		56.03										
0938	0,5		7.12	5487	13.2	SI. de	suda					
2945	0.5	58.52	7.07	5636	12.7	cloud	~					
1000	0,2					cloud	1	~ Dr	V			
1350		59.26							/			
1400	trace	59.49						- Dry	No See	ole		
1237		59,22						Instein	sk to so	male		
Cummulative Volu	me Purged:	1.2		(gallons)	2.1		(casing vol)	1		1		
				WELL SA	MPLING INFO	RMATION						
ampling Equipme	ent: N₽	ł										
omments:												
SAMPLING M	EASUREMEN	TS: NA										
	Depth to	Depth		Specific		Other	Other					
Date/	Water	Sampled		Conductance	Temp							
Time	(feet below MP)	(feet below MP)	pН	(uS @ 25 deg C)	(deg C)				Comments			
AMPLE HAN	DLING: N	A ,							·····			
Date/		Alia	uots		Filtered	Preserved	-					
Time	Volume (ml)	Bottle Co	mposition	Quantity	(Y/N)	(type)		Com	ments			
						(())))		Com	nenta			
ield QA/QC S	amples Collec	ted (type, Sam	ple No.):			·	A		Ale sector and the procession			
quipment De	contamination:			Contraction of the Longe								
DI	rater											
Vaste Dispos	al: Purg	e mater	16 95	and su	rtina							
Signature of Field	Personnel:	0				GCC RIO GRANDE, INC.						
15	conce (lon				Pueblo, CO						

GROUNDWATER SAMPLING RECORD SAMPLE No. MW - 7												
Project No:	001			Location:	Puebla	Plan	t		Page of			
Date:	119	Weather Cond	itions:	o"F	I Weith		Personnel: B. Clase /	O. Fur	man (D. Bemis			
Comments:	ct Qu	ortor	2019						······			
,	51 20			INS		ISED						
Instri	iment	Manufactu	rer/Model	Seria	al No.			Calibration				
Water Level Prob	8	Gester	h ET	675	7							
pH Meter		YSIPIS	1030	185107	3866	Std: 4 7 10	@18,8 °C Re	eading 7,0	Slope:			
pH Meter						Std: (4) 7 10	@ <u>/%.\$</u> °C Re	eading 4, 0				
Specific Conducta	ance Meter	YSI Pr	. 1030	18510	3866	Std: 1413	uS@_25 °C Re	eading <u>141</u>	3			
Specific Conductance Meter Std:US @ 25 °C Reading												
Temperature YSI Pro 1030 185103866												
Other:												
Filtration	0.45 micron in	line high capa	city disposable	e filter.								
	2			WELL PL	JRGING INFC	RMATION	0					
Casing Diameter	(inches):		Borehole Diamete	er (inches):		Screened Interva	al (ft. BGL): 것	0.4-5	<u>5.</u> Y			
Depth to Water (f	below MP): 90	5.19	Total Depth (ft):	59.37	Casing Volume	(gal): 2,91	,	(gal/ft: 1.5" = 0.	.09; 2" = 0.16; 4" = 0.65)			
Purging Method:	13a. Ter	, poly										
Comments:	Monitoring point (MP) is the top of the	e PVC well casing] .								
		Depth to		Specific		1						
Date/	Vol Purged	Water		Conductance	Temp	Appe	arance					
3/7	(gal)	(feet below MP)	nН	(US @ 25 deg C)	(deg C)	(color, se	diment. etc.)		Comments			
930	(gui)	40,79		(40 @ 20 40g 0)	(dog o)	(00101) 00						
1020	3.0	41.85	6.88	5730	13.3	SI. clau	in arav					
1040	3.0	42,26	6.86	5975	13.8	SI. class	ly aray					
1100	3.0	42,35	6.88	6045	13.9	SI. claux	ly oray					
							<i>y y y y</i>					
Cummulative Vol	ume Purged:	9		(gallons)	3		(casing vol)					
				WELL SA	MPLING INF	ORMATION						
Sampling Equipm	ent: Bain	ler, po	y									
Comments:					DE QUERTE DE							
SAMPLING N	EASUREMEN	TS:				1	1					
	Depth to	Depth		Specific		Other	Other					
3/7 Date/	Water	Sampled		Conductance	Temp							
Time	(feet below MP)	(feet below MP)	pH	(uS @ 25 deg C)	(deg C)				Comments			
1105	92,00	32	6,75	6020	15,1							
Date/		Alio	uots		Filtered	Preserved	1					
3/7 Time	Volume (ml)	Bottle Co	mposition	Quantity	(Y/N)	(type)		Co	omments			
1105	250	LODF	,	1	Y	HNDA	1					
1105	250	LOPF		1	N	Hasou						
1105	250	LOPE		2	IN	None						
1105	500	LDPE		1	N	None	-					
Field QA/QC	Samples Colle	cted (type, Sam	ple No.):						the survey of			
Equipment De	econtamination	:										
DI	water		1ª		1				-			
Waste Dispos	al: Grou	ad Sur	tace - P	urge no	etter	1	000					
Signature of Fie	Id Personnel:	1				GUU RIU GRANDE, INU.						
1 20	ence (core			Pueblo, CO							

	GROUN	DWATE	R SAMP	LING R	ECORE)	SAMPLE N	0. MW-6				
Project No:				Location:				Page of				
Quar	-terly	Compli	ence	Gcc	- Pu	eblo	······					
Date: 6/1	2/19	Weather Cond	itions: loudy	65'1	-		Personnel: B, C Isse	. D. Furman M. Bliche				
Comments:	2.1.0	narta	2 21	9								
	ens d	narler	201	I			****					
Inetra	ment	Manufactu	rer/Model	Seria	I No	Calibration						
Water Level Prob	e	Gestee	h ET	675	7							
pH Meter		YSI Pro	1030	18310	3866	Std: 4 🗭 10	@22.9 °C R	eading 7, 9 Slope:				
pH Meter						Std: 4 7 10	@ 22.9 °C R	eading 4.0				
Specific Conducta	ince Meter	YSI Pro	1030	185103	866	Std: 1413	_uS@25°C R	eading 1413				
Specific Conductance Meter Std:uS @ 25 °C Reading												
Temperature YSI Pro 1030 185103866												
Other:												
Filtration	0.45 micron in	line high capa	city disposable	e filter.								
				WELL PL	JRGING INFO	RMATION	21					
Casing Diameter	(inches): 2		Borehole Diamete	er (inches): 6		Screened Interva	I (ft. BGL): 5/,	1-56.1				
Depth to Water (ft	below MP): 46	142	Total Depth (ft):	59.55	Casing Volume (gal): 2.1		(gal/ft: 1.5" = 0.09; 2" = 0.16; 4" = 0.65)				
Purging Method:	Bailer,	poly			Ct.	1	1. /. m	2 661				
Comments:	Monitoring point (MP) is the top of th	e PVC well casing].	Duc	1 csg si	ieung -	2 50'				
	black	Deathte		Consilia	TVC	<u>- sg sn</u>	chup -	2130				
Data	Val Durand	Depin to		Conductance	Temp	Anna	0000					
6/12	voi. Purged	vvater Kot belev MOb	nH	(up th 25 deg C)	(deg C)	(color sec	timent etc.)	Comments				
g:Co	(gai)	(feet below MP)	рп	(us (gi 25 deg C)	(deg c)	(0001, 500	innent, etc.)	Comments				
12:15	2.1	52.33	6.22	5785	15.6	SI CIA	udu					
13:27	2.1	57.48	6.95	5956	15.8	11						
10:38	0,5	Ndry	7.07	6053	15.9	11						
14:15		57.60				_						
14:30		58.91										
	_											
Cummulative Vol	ume Purged:	1.7		(gallons)	2		(casing vol)					
	~			WELL SA	MPLING INF	ORMATION						
Sampling Equipm	ent USai	lar, Pal	x									
Comments:												
SAMPLING M	EASUREMEN	TS:			· · · · ·	1		1				
	Depth to	Depth		Specific	-	Other	Other					
6/12 Date/	Water	Sampled	-11	Conductance	Temp			Community				
Time	(feet below MP)	(feet below MP)	714	(uS @ 25 deg C)				Comments				
19:20				5113	17.8							
SAMPLE HAN	DLING:	L				1						
/Date/		Alio	uots		Filtered	Preserved						
6/12_ Time	Volume (ml)	Bottle Co	mposition	Quantity	(Y/N)	(type)		Comments				
14:20	125	LDPE		1	Y	HNDA						
14:20	250	LOPE		1	Y	None						
14:20	500	LOPE		1	N	None						
1												
			name and the last of									
				1		1						
Field QA/QC	Samples Colle	cted (type, San	ple No.):									
Equipment De	contamination	6										
Waste Diener	al							an a				
Signature of the	d Personnel:	2				T	GCC	RIO GRANDE, INC.				
120	mal	loca		Pueblo. CO								

	GROUN	DWATE	R SAM	PLING R) SAMPLE NO. $MW - 7$							
Project No:				Location:			. .		Page of			
Quart	erly Co	mplian	ca.	Ge	-C - P	neblo			<u> </u>	/		
Date:	119	Weather Cond	itions:	1000			Personnel:	0E.		Blicky		
Commenter	///	V. Cr	2439	67 /			W . C 133C	, D.Taci	man, Iri	. 107 1 MAG		
2	ad Qua	ster 2	219							-		
				INS	TRUMENTS	JSED			·· · ·			
Instru	ment	Manufactu	rer/Model	Seria	al No.		Calibration					
Water Level Prob		Gester	LET	6757								
pH Meter		YSI Pr.	1030	185103	866	Stat: 4 3 10	@ 22.9 °C R	rading ?, ?		Stope:		
oH Meter						Std: 3 7 10	@ 22.9 °C Re	rading 4, 2				
Specific Conducta	nce Meter	YSI Pro	1230	183103	866	Stat: 1413	uS@25°C R	rading <u>1913</u>				
Specific Conducts	ince Meter	Viceo		(0 T -	264 .	- Std:	US @ 25 °C R	eading				
Temperatura												
Other: 1												
Provencia	0.45 1000010	Hate tagii capa	or in the second	WELL PL	IRGING INFO	RMATION						
Casino Diameter ((inches): 2.		Borehole Diamet	er (inches): C		Screened Interv	al (fl. 8GL): 30	4' - 55	.41			
Depth to Water (ft	below MP):	53.89	Total Depth (it):	59.37	Casing Volume	(gal): 4,1		(gal/ft: 1.5" = 0.0	9; 2" = 0.16; 4" =	0.65)		
Purging Method:	Bailor	, poly							· · · · · ·			
Comments:	Monitoring point (MP) is the top of th	e PVC well casin	9.	St	cel csg	stichup	2.2.84	ľ,			
	blach	mark			Pr	<u>c csa</u>	sticking	÷ 2.64	/'			
		Depth to		Specific								
6/12 mm	Vol. Purged	Water		Conductance	Temp	Арр	earance		_			
Time	(gai)	(fact below EP)	рH	(uS (0 25 deg C)	(deg C)	(color, se	diment, etc.)		Comments			
13:45		33.87	6.94	10013					• · ·			
11:37	<u>4.1</u>	31.14	1.96	60013	16.7	(1) (1)	- 100					
11.46	4.1	30.14	6.99	5949	171	1 24 3</td <td>- +-</td> <td></td> <td></td> <td></td>	- +-					
					<u> </u>		<u> </u>					
Cummutative Voli	rme Purged:	12	2.4	(gailons)	3,02		(casing vol)					
				WELL SA	MPLING INF	ORMATION	·					
Sampling Equipm	ent <u>13a'l</u>	er, pols	<u> </u>									
Comments:			····· - ···			· · ·						
SAMPLING M	EASUREMEN	18:		010	· · ·	0	0.00					
Detet	Depun to Minister	Depth		Conductopro	Term	Unter	Uther					
6/1L	Chart Subm 1021	Chart Surface LIDE	nHa	100 100 100 C	ideo C)				Comments			
12:00	34.90	58.4	6.95	59.97	18.0			Submitte	ad duplica	teres		
								MW-2B	W 12:30	time		
SAMPLE HAN	IDLING:											
C/S2	•	Ašg	LIOIS		Filtered	Preserved						
Time	Volume (m)	Bottle Co	mposition	Quantity	(Y/N)	(type)	· · · · · ·	Con	ments			
12:00	125	LOPI	<u> </u>	<u> / </u>	<u> </u>	HNO3			·····			
12 00	250		· · · · · · · · · · · · · · · · · · ·		Y	None						
12.00	500		·	<u> </u>		- None						
		<u> </u>					1					
			•••••••	<u> </u>	···	1	1					
		1								- ·		
Field QA/QC S	Samples Colle	cted (type, San	iple No.): F	eta auplia	cotte M	w-23	12130					
Equipment De	contamination	:										
OI V	vour					<u></u>						
Waste Dispos	BL:			·····		1	000					
Ser					900 r		, 114 4 .					

•

	GROUN	IDWATE	R SAM	PLING F	D SAMPLE No. MW/(0						
Project No:				Location:				1 11 1 4	Page	of	1
Quar	terly Cor	moliance	2	GCC	-Puebl	0				1	
Date:	alicito	Weather Con	ditions:				Personnel:				
9/18 - C	1119199	clear	, sunni	4			Drurm	an DBe	mis		-
Comments:	3rd Qua	rter 201	9								
				INS	TRUMENTS I	JSED					-
Instru	iment	Manufact	urer/Model	Seri	al No.	Calibrati	on for 911	Calibration			
Water Level Prob	e	Geotech	ET	6757	ł	refer	to 9/181	IW-7 rec	ord for	9/18 calibi	iation
pH Meter		YSI Pre	1030	1811039	366	Std: 4 7 10	@ <u>8</u> , CR	eading 7.02	-	Slope:	
pH Meter						Std: 4 7 10	@_15.2 °C R	eading Cl			_
Specific Conducta	ince Meter	YSI Pro	01030	18110.38	366	Std: 1913	uS @ 25 °C R	eading 43	-		
Specific Conducta	ince Meter	VICLO	10000	1011030	24.1	Std:	uS @ 25 °C R	eading			
Temperature		121 Pro	1030	187102	300						-
Other:	0.45 mioron in	line high ean	noity disposabl	lo filtor							-
Fillration	0,45 11101011 11	I-line night capa	acity disposabl	WELL PI	IRGING INFO	RMATION					-
Casing Diameter (inches):		Borehole Diame	ter (inches):		Screened Interve	al (ft. BGL): 🤼	1-5	10.)1		-
Depth to Water (ft	below MP): 3	2105	Total Depth (ft):	59.65	Casing Volume	(gal): 4.64	,	(gal/ft: 1.5" = 0.09	; 2" = 0,16; 4	" = 0.65)	1
Purging Method:	barten	aly									
Comments:	Monitoring point (MP) is the top of t	he PVC well casin	ng.							1
		Depth to	[Specific		1					1
918 _{Date} /	Vol. Purged	Water		Conductance	Temp	Appe	arance				
Time	(gal)	(feet below MP)	pН	(uS @ 25 deg C)	(deg C)	(color, se	diment, etc.)		Comment	S	
10:25	4.6	40,48	6.93	6536	18.5	slightly	doudy				_
12:15	4.75	54,20	6.88	6323	21.6	cloudy []	ight brow)			-
12:38	2.5	59.50	-	1 200		cidudy 1	dark brur	no meas	ureme	ats taken	san
1198:20		55.50	7.09	6382	16.1	signtly o	loudy	releas	sed pho	r torreasire	ement
											-
											1
Cummulative Volu	me Purged:	1.85		(gallons)	4.10		(casing vol)				-
				WELL SA	MPLING INFO	ORMATION					
Sampling Equipme	ent: baller	; poly (c	tedicated								
Comments:											-
SAMPLING MI	EASUREMEN	TS:	1								-
Dated	Depth to	Depth		Specific	Terre	Other	Other				1
Date/	vvater (feet helew MD)	Sampled	rH	Conductance	(deg C)				Comment	e	
9419.22	(reer below MP)	(reet below MP)		(US @ 25 deg C)	(ueg c)				Comment	a	1
91198:32	58.21	58.5	7.14	6201	15.9						1
SAMPLE HAN	DLING:	0010									1
gl Date/		Aliq	luots		Filtered	Preserved		2			1
Time	Volume (ml)	Bottle Co	omposition	Quantity	(Y/N)	(type)		Com	nents .		1
8:32	125	LDPE		2	X	HNU2	include	s-field	duplice	ates	-
8:32	250	LDPE	-	2	Y			11			-
8:32	500	LDPE	-	2	N			17.			-
											-
											1
Field QA/QC S	amples Collec	ted (type. Sam	nple No.): M	WB2		1	I				
Equipment Dec	contamination:	() por our									1
DIV	Vater										
Waste Disposa	al:										
Signature of Field	Personnel:						GCC F	O GRAND	E, INC.		1
	W A							Pueblo, CO			

	GROUN	DWATE	R SAM	PLING R	ECOR)	SAMPLE N	0. MW -7				
Project No:				Location:				Page of				
QUA	arterly (omplian	ie	GCC -	Pyeblo			- 1 - 1				
Date:	,	Weather Cond	litions:	_			Personnel:					
91181:	2019	Clear.	Sunnu	620F			D. Furme	an / D. Bemis				
Comments:												
	3rd Qua	rter 2010)									
				INS	TRUMENTS L	JSED						
Instru	iment	Manufactu	urer/Model	Seria	al No.		Calibration					
Water Level Prob	e	Geotech	ET	6757								
pH Meter		YSI Pro 1	030	18,11038	366	Std: 4 (7) 10	@ 18,1 °C R	eading 7.02 Slope:				
pH Meter		ter de la companya	Contraction of the second		11461	Std: 4 7 10	@ 17_ °C R	eading 10.00				
Specific Conducta	ince Meter	VSI Pro 1	030	18510380	06	Std: 1413	uS@25°C R	eading 1413				
Specific Conducta	pecific Conductance Meter Std:uS @ 25 °C Reading											
emperature YS1 Pro 1030 18.1103866												
Diter:												
Filtration	0.45 micron in	line high capa	city disposable	e filter.								
		¥		WELL PL	JRGING INFC	RMATION						
Casing Diameter	(inches): 2		Borehole Diamet	er (inches):		Screened Interva	I (ft. BGL): 30.	4-55.4				
Depth to Water (ft	below MP): 30	0.53	Total Depth (ft):	59.40	Casing Volume	(gal): 4,62		(gal/ft: 1.5" = 0.09; 2" = 0.16; 4" = 0.65)				
Purging Method	ballerr	oly	P (. 4)									
Comments:	Monitoring point (MP) is the top of the	ne PVC well casin	g.								
0110		Denth to		Specific								
4118	Val Durand	Depth to		Conductoric	Tomp	4000	212000					
Date/	Vol. Purgea	vvater		Conductance	(dec Q)	Appe		Commonto				
Time	(gal)	(feet below MP)	рн	(uS @ 25 deg C)	(deg C)	(color, sec	liment, etc.)	Coniments				
08:55	-	30.55	1. 01	1200	195	diality	Ind the	bllowing				
09:10	DE	31.44	6.11	600+	18.5	Signig	unay; no	ntoriuri				
09:49	4.5	31,93	6.95	6204	19.7	Slightlu	1 cloudy					
10110	4. +5	32.2	6,98	6197	20.8	slightly	cloudy					
							5					
		-										
Cummulative Volu	ume Purged:	4.25		(gallons)	4.6		(casing vol)					
		,		WELL SA	MPLING INF	ORMATION						
Sampling Equipm	ent: baile	r, poly (dedicat	ed)								
Comments:	A DESCRIPTION OF A DATA						(i)					
SAMPLING M	EASUREMEN	TS:										
	Depth to	Depth		Specific		Other	Other					
Date/	Water	Sampled		Conductance	Temp							
Time	(feet below MP)	(feet below MP)	pН	(uS @ 25 deg C)	(deg C)			Comments				
9/1810:45	31.27	58	6.97	6046	19,4							
SAMPLE HAN	IDLING:											
Date/		Alio	uots		Filtered	Preserved						
Time 18	Volume (ml)	Bottle Co	mposition	Quantity	(Y/N)	(type)		Comments				
10:45	125	LDPF		1	Y	HNO2						
IDUIE	250	1 DPF	5	1	Y	- 3						
ID'4C	250	IDP	E	1	N)	-						
10.10	~,~			1								
		nan ter beter beter and a set of the set of										
Field OA/OC	Samplas Calle	tod (tupo Son		0		.1	1					
Field QA/QC	samples Colle											
Equipment De	in la ta ta											
	VUTER											
Waste Dispos	al:					1	000					
Signature of Fiel	d Personnel:						GCCF	Dueble CO				
$ \rightarrow $	N P											
-												

	GROUN	DWATE	R SAM	PLING F	RECOR)	SAMPLE N	Io. MW-l	P	
Project No:	auarter	y Compl	lance	Location:	- Riebic				Page I of	1
Date:	10	Weather Cond	ditions:	12-0-			Personnel:			
12191	19	Clear	, sunnu	374			DFyrm	an, Ste	gs LAQ	X)
Comments:	0.000								3.5	
41	Guarte	12019								
				INS	TRUMENTS L	ISED				
Instru	ument	Manufact	urer/Model	Seria	al No.			Calibration		
Vater Level Prob	e	Geotech E	ET	6757 123	20 LAGX			7 00		
H Meter		YSI Pro	1030	1871038	366	Std: 4 7 1	0 @ <u>20. +</u> °C F	leading +.01		Slope:
H Meter				1011000		Std: 4 7 1	0 @ <u>20.5</u> °C F	leading 7.00)	
pecific Conducta	ance Meter	YSI Pro	1030	1271038	stole	Std: 141:	<u></u>	Reading 1412	2	
pecific Conducta	ance Meter					Std:	uS @ 25 °C F	Reading		
emperature		YSI Pro	1030	1871038	lolo					
)ther:		mediun	0							
iltration	0.45 micron in	-line high capa	city disposable	e filter.						
			I	WELL PL	JRGING INFO	RMATION				
asing Diameter	(inches): 2		Borehole Diamet	er (inches): 🛛 🚺	2	Screened Inter	val (ft. BGL): 🛛 🔁	31.1'-54	2,1	
epth to Water (ft	t below MP): 37	.94	Total Depth (ft):	59.55	Casing Volume (gal): 4,21	e	(gal/ft: 1.5" = 0.09	; 2" = 0,16; 4" = 0	0.65)
urging Method:	baller, p	oly				8				
comments:	Monitoring point (MP) is the top of the	ne PVC well casin	g.						
12 9		Depth to		Specific						
Date/	Vol. Purged	Water		Conductance	Temp	Apr	pearance			
Time	(gal)	(feet below MP)	pH	(uS @ 25 deg C)	(deg C)	(color, s	ediment, etc.)		Comments	
10:32		32.94	10.84	5446	13.7	CLEAN				
10:39	2		10.88	5814	12.0	Shaht	udadu	missed me	asure mus	+ (deoth)
10:50	2	42.98	6,91	5869	11,10	Slightly	1 cliqued in			1 centring
11'01	2	47.40	10,92	5970	11.2	Slightly	doudy			
11:02	2		6.90	5809	117	Slight	uddudy	missed de	oth mars	iromat
11:16	2	510.08	694	5939	12 2	doud	ganag	innater on	pinna	
11:28	1.2	58.42	6.99	6025	11.8	cloudu	hous			
ummulative Volu	me Purged:		4.11	(gallons)	4.3	carry	(casing vol)			
				WELL SA	MPLING INFO	RMATION				
ampling Equipme	ent:		_							
omments:									_	
AMPLING M	EASUREMEN	TS:								
12/9	Depth to	Depth		Specific		Other	Other			
Date/	Water	Sampled		Conductance	Temp					
Time	(feet below MP)	(feet below MP)	Hq	(uS @ 25 deg C)	(deg C)				Comments	
14:15	56.57	58.5	7.20	5693	12.3			Ked mer	tuminst	Padofin
					10.5			Capaciti	filterr	LUE TO SO
AMPLE HAN	DLING:				22			Volume	limitatio	ng
Date/		Alia	uots		Filtered	Preserved			THIS I WOLL	1.3
Time	Volume (ml)	Bottle Co	mposition	Quantity	(Y/N)	(type)		Com	ments .	
14:15	125	LDPF			Y	HN02	ACTIAN	s-shim	ed onice	
ILLIE	250	LDPF		i	V	-3	il il	2 Juilla	- ene	
14:12	500	LDPF		i	NI	-	\$3			
1.1.2										1
14:15	250	LDPF		1	N	HaSO.	Oprine	abouting	-hang	toluou
4:15	250	IDDE		2	N		- Chistins	NON AND AND AND AND AND AND AND AND AND AN	1 mune	INCHIVEV
4:15	570	IDDE	-	2	N		DOFIL	tion men	doniala	DVDVIde
ield QA/OC S	Samples Collec	ted (type Sam	nle No Y: DI	2			Dreser	Wathle	a unup	Provided
auinment Do	contamination	tou (type, oan					Fical	VUINUS		
DI V	Vater									
Vaeto Dionese	al.									
Signature of Fish	d Dereonnal					<u>г</u>	600		E INC	
Signature of FIEld	i ersonnel.					1	600 F	Ducht- 00	_ , I NO,	
								Fueblo, CO		

2. 2.	GROUN	DWATE	R SAMI	PLING R	ECORE)	SAMPLE N	o. MW-7	1		
Project No:	udu Com	liance		Location:	relate				Page of	1	
Date:	ong comp	Weather Conc	litions:	9 10	10010		Personnel:				
12/9/1	9	Clear.	SUNNU	410=			DEurman, SLeag(ARX)				
Comments:		cicary	Sung						Junio		
4th	Gtr 2019	3									
				INS	TRUMENTS U	SED					
Instru	ment	Manufactu	irer/Model	Seria	al No.			Calibration			
ater Level Prob	9	Geotech	ET	67571:	2320 HUX	NIA					
H Meter		YSI Pro	1030	1811039	866	Std: 4 7 10	@_20.1°C R	eading 7.02		Slope:	
H Meter	_					Std: (4) 7 10	@ 20.5°C R	eading 4.00	_		
pecific Conducta	nce Meter	YSI Pri	01030	18,11038	106	Std: 1413	uS @ 25 °C R	eading 413			
pecific Conducta	nce Meter		1. 2		4.1	Std:	uS@25°C R	eading			
emperature		VISI PR	51030	1811038	566						
ther:		mediur	0								
Itration	0.45 micron ir	I-line high capa	city disposabl	e tilter.		DUATION		1.111/1-			
	-			WELL PL	JRGING INFO	RMATION		MUVF	L 2011	1 FEIL	
asing Diameter	inches): 2	1-	Borehole Diamet	er (inches):	Opping Mathematic	Screened Interva	ai (it. BGL):		01-040.41-	- 55.4	
epth to Water (ft	below MP): 32	-15	rotal Depth (it):	60.31	Casing Volume (gar): 7, 5		(gal/n; 1.5" = 0.09)	∠° = 0,16; 4° =	0.00)	
urging Method:	Manitarian maint	MD) is the top of the	a BVC well easis	0		12	5				
omments:	wormoring point (ч .							
	8	Depth to		Specific							
Date/	Vol. Purged	Water		Conductance	Temp	Appe	earance				
Time	(gal)	(feet below MP)	pH	(uS @ 25 deg C)	(deg C)	(color, sec	diment, etc.)		Comments		
11:56		32.15	7.12	5324	10.3	clear		_			
12:00	2	33.87	7.04	5306	12.6	slight	ly tan			_	
12:07	2.25	-	7.02	5264	13,4	Slight	yciade	missed	measu	rementide	
12:13	1.75	3472		_			1	missed k	adines	(ph sp)	
12:22	2	34.99	7.08	5318	12.7	Slight	4. claude		1>noso	inde for	
12:28	2	35.25	7.13	5399	11.8	slightly	Geloudy				
12:38	.2	34.75	7.13	5319	12.2	slightli	Gelanda				
ummulative Volu	ıme Purged: 🁔	3.5		(gallons)	3.5	9	(casing vol)				
				WELL SA	MPLING INFO	ORMATION					
ampling Equipm	ent: balle	r, poly (new)								
omments:											
AMPLING M	EASUREMEN	TS:			1			0			
	Depth to	Depth		Specific	Turn	Other	Other				
Date/	Water	Sampled		Conductance	(de= 0)				Comment		
	(feet below MP)	(feet below MP)	pH C	(uS @ 25 deg C)				1 ked mod		ad of hiel	
14144	04,58	24	T,05	UPTI	14:0			CODOC	F. FILT	diptoco	
	DUNG			I	I	L	1	intim	elimite	HIDDS	
Date/		Alio	uots	_	Filtered	Preserved		хцип			
Time	Volume (ml)	Bottle Co	mposition	Quantity	(Y/N)	(type)	- Si	Comr	nents .		
2:47	125	LDPI	E	2	Y	HNO2	2 (inclu	dina dur	plicate):	shippedor	
12:47	250	LDPT	-	2	Y		11	ang a			
12:47	500	LDP	5	2	N		11.			ACTLO	
12:47	200	LDPE	5		N	H2504					
12:47	250	LDPI	Ε		N	-	Onsins	Laborat	oni-ph	vided bot	
12:47	250	LDP	E	1	N	-	TUDENFO	rm Fitte	tron in t	the lab	
12:47	500	LDP	E	2	N	-	hand-				
ield QA/QC S	Samples Colle	ted (type, Sam	ple No.): N	W-2B	Field D	plicate	Deliven	to lab	directly	y by Abx	
quipment De	contamination	50 m								5.	
	DI	Nater									
Vaste Dispos	al:										
Signature of Field	Personnel:						GCC F	RIO GRANDI	E, INC.		
bigilatare et l'iet								•			

ATTACHMENT 2



Analytical Report

October 04, 2019

Report to: Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004 Bill to: Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Project ID: ACZ Project ID: L54721

Diana Furman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 20, 2019. This project has been assigned to ACZ s project number, L54721. 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 L54721. 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 \bar{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 November 03, 2019. 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 ACZIS 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.

Bill Lane has reviéwed and approved this report







L54721-1910041334

Project ID: Sample ID: MW-6

Inorganic Analytical
Results

ACZ Sample ID:	L54721-01
Date Sampled:	09/19/19 08:32
Date Received:	09/20/19
Sample Matrix:	Groundwater

Metals Analysis									
Parameter	EPA Method	Dilution	Result	Qual XC	u Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5		U	mg/L	0.3	1	10/02/19 19:18	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0004	В	mg/L	0.0002	0.001	09/25/19 16:53	bsu
Beryllium, dissol∨ed	M200.7 ICP	5		U	mg/L	0.05	0.3	10/02/19 19:18	kja
Boron, dissolved	M200.7 ICP	5	0.3	В	mg/L	0.1	0.5	10/02/19 19:18	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00026	В	mg/L	0.00005	0.0003	09/25/19 16:53	bsu
Chromium, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/04/19 1:21	jlw
Cobalt, dissolved	M200.7 ICP	5	0.05	В	mg/L	0.05	0.3	10/02/19 19:18	kja
Copper, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/02/19 19:18	kja
Iron, dissolved	M200.7 ICP	5	0.3	В	mg/L	0.2	0.4	10/02/19 19:18	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0004	В	mg/L	0.0001	0.0005	09/25/19 16:53	bsu
Lithium, dissolved	M200.7 ICP	5	0.49		mg/L	0.04	0.2	10/02/19 19:18	kja
Manganese, dissolved	M200.7 ICP	5	0.58		mg/L	0.05	0.3	10/02/19 19:18	kja
Mercury, dissolved	M245.1 CVAA	1		U	mg/L	0.0002	0.001	09/24/19 17:13	slm
Nickel, dissolved	M200.7 ICP	5	0.13	В	mg/L	0.04	0.2	10/02/19 19:18	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.140		mg/L	0.0001	0.0003	09/25/19 16:53	bsu
Vanadium, dissolved	M200.7 ICP	5		U	mg/L	0.03	0.1	10/02/19 19:18	kja
Zinc, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/02/19 19:18	kja
Wet Chemistry									
Parameter	EPA Method	Dilution	Result	Qual XC	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.6		mg/L	0.1	0.4	09/27/19 10:17	emk
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		11.0		mg/L	0.1	0.5	10/04/19 0:00	calc
Nitrate/Nitrite as N, dissol∨ed	M353.2 - Automated Cadmium Reduction	5	11.1	*	mg/L	0.1	0.5	09/21/19 1:31	pjb

0.08

5860

*

*

mg/L

mg/L

0.01

40

0.05

80

09/21/19 1:00

09/25/19 14:40

pjb

еер

1

2

Residue, Filterable (TDS) @180C

Nitrite as N, dissolved M353.2 - Automated

Cadmium Reduction

SM2540C

Project ID: Sample ID: MW-7

Inorganic Analytical Results

ACZ Sample ID:	L54721-02
Date Sampled:	09/18/19 10:45
Date Received:	09/20/19
Sample Matrix:	Groundwater

Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5	0.4	в		mg/L	0.3	1	10/02/19 19:21	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0003	в		mg/L	0.0002	0.001	09/25/19 16:55	bsu
Beryllium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	10/02/19 19:21	kja
Boron, dissolved	M200.7 ICP	5	0.3	в		mg/L	0.1	0.5	10/02/19 19:21	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00015	в		mg/L	0.00005	0.0003	09/25/19 16:55	bsu
Chromium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	10/04/19 1:25	jlw
Cobalt, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	10/02/19 19:21	kja
Copper, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	10/02/19 19:21	kja
Iron, dissolved	M200.7 ICP	5	0.8			mg/L	0.2	0.4	10/02/19 19:21	kja
Lead, dissolved	M200.8 ICP-MS	1	0.001			mg/L	0.0001	0.0005	09/25/19 16:55	bsu
Lithium, dissolved	M200.7 ICP	5	0.48			mg/L	0.04	0.2	10/02/19 19:21	kja
Manganese, dissolved	M200.7 ICP	5	0.10	в		mg/L	0.05	0.3	10/02/19 19:21	kja
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	09/24/19 17:14	slm
Nickel, dissolved	M200.7 ICP	5		U		mg/L	0.04	0.2	10/02/19 19:21	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.0762			mg/L	0.0001	0.0003	09/25/19 16:55	bsu
Vanadium, dissolved	M200.7 ICP	5		U		mg/L	0.03	0.1	10/02/19 19:21	kja
Zinc, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	10/02/19 19:21	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.5			mg/L	0.1	0.4	09/20/19 17:53	enb
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		10	н		mg/L	0.2	1	10/04/19 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	10	10.1	Н	*	mg/L	0.2	1	09/21/19 1:32	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.02	BH	*	mg/L	0.01	0.05	09/21/19 1:02	pjb

2

6740

*

mg/L

40

80

Residue, Filterable (TDS) @180C

SM2540C

09/25/19 14:43

еер

Project ID: Sample ID: MW-2B

Inorganic Analyti	cal
Results	

ACZ Sample ID:	L54721-03
Date Sampled:	09/19/19 08:32
Date Received:	09/20/19
Sample Matrix:	Groundwater

Metals Analysis									
Parameter	EPA Method	Dilution	Result	Qual X	ລ Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5		U	mg/L	0.3	1	10/02/19 19:24	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.0004	В	mg/L	0.0002	0.001	09/25/19 17:04	bsu
Beryllium, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/02/19 19:24	kja
Boron, dissolved	M200.7 ICP	5	0.3	В	mg/L	0.1	0.5	10/02/19 19:24	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00031		mg/L	0.00005	0.0003	09/25/19 17:04	bsu
Chromium, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/04/19 1:34	jlw
Cobalt, dissolved	M200.7 ICP	5	0.05	В	mg/L	0.05	0.3	10/02/19 19:24	kja
Copper, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/02/19 19:24	kja
Iron, dissolved	M200.7 ICP	5	0.3	В	mg/L	0.2	0.4	10/02/19 19:24	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0005		mg/L	0.0001	0.0005	09/25/19 17:04	bsu
Lithium, dissolved	M200.7 ICP	5	0.48		mg/L	0.04	0.2	10/02/19 19:24	kja
Manganese, dissolved	M200.7 ICP	5	0.57		mg/L	0.05	0.3	10/02/19 19:24	kja
Mercury, dissolved	M245.1 CVAA	1		U	mg/L	0.0002	0.001	09/24/19 17:15	slm
Nickel, dissolved	M200.7 ICP	5	0.15	В	mg/L	0.04	0.2	10/02/19 19:24	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.141	*	mg/L	0.0001	0.0003	09/25/19 17:04	bsu
Vanadium, dissolved	M200.7 ICP	5		U	mg/L	0.03	0.1	10/02/19 19:24	kja
Zinc, dissolved	M200.7 ICP	5		U	mg/L	0.05	0.3	10/02/19 19:24	kja
Wet Chemistry									
Parameter	EPA Method	Dilution	Result	Qual X	ຊ Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.7		mg/L	0.1	0.4	09/30/19 15:16	enb
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		11		mg/L	0.1	0.5	10/04/19 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	5	10.8		mg/L	0.1	0.5	09/21/19 1:35	pjb

1

10

0.08

6020

*

*

mg/L

mg/L

0.01

200

0.05

400

09/21/19 1:09

09/26/19 15:59

pjb

jck

Residue, Filterable (TDS) @180C

Nitrite as N, dissolved M353.2 - Automated

Cadmium Reduction

SM2540C

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

Inorganic Reference

Re	port Header	Explanations								
	Batch	A distinct set of samples analyzed at a specific time								
	Found	Value of the QC Type of interest								
	Limit	Upper limit for RPD, in %.								
	Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)								
	MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).								
		Allows for instrument and annual fluctuations.								
	PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer is certificate of analysis								
	PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".								
	QC	True Value of the Control Sample or the amount added to the Spike								
	Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)								
	RPD	Relative Percent Difference, calculation used for Duplicate	QC Types							
	Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)								
	Sample	Value of the Sample of interest								
-										
Q	C Sample Typ	es								
	AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplic						

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	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	SDL	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Q

C/L	wuanners (au al)
	в	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
	н	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
	L	Target analyte response was below the laboratory defined negative threshold.
	U	The material was analyzed for, but was not detected above the level of the associated value.
		The associated value is either the sample quantitation limit or the sample detection limit.

Method Refer	ences								
(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.								
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.								
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.								
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.								
(5)	Standard Methods for the Examination of Water and Wastewater.								
Comments									
(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.								
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.								
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.								
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier								

associated with the result.

(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZIS Extended Qualifiers, please click:

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

 Laboratories, Inc.

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

2773 Downhill Drive

GCC Rio Grande

ACZ Project ID: L54721

Aluminum, diss	olved		M200.7 IC	Ρ									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2		1.981	mg/L	99	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.15	0.15			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	1.0012		1.076	mg/L	107	85	115			
L50323-29AS	AS	10/02/19 18:53	ll190920-2	1.0012	U	1.081	mg/L	108	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	1.0012	U	1.082	mg/L	108	85	115	0	20	
Arsenic, dissolv	/ed		M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482416													
WG482416ICV	ICV	09/25/19 16:19	MS190806-2	.05		.05062	mg/L	101	90	110			
WG482416ICB	ICB	09/25/19 16:21				U	mg/L		-0.00044	0.00044			
WG482416LFB	LFB	09/25/19 16:22	MS190905-3	.05005		.05294	mg/L	106	85	115			
L54721-02AS	AS	09/25/19 16:57	MS190905-3	.05005	.0003	.05139	mg/L	102	70	130			
L54721-02ASD	ASD	09/25/19 17:02	MS190905-3	.05005	.0003	.05204	mg/L	103	70	130	1	20	
Beryllium, disso	olved		M200.7 IC	P									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2		1.971	mg/L	99	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.03	0.03			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	.5005		.487	mg/L	97	85	115			
L50323-29AS	AS	10/02/19 18:53	II190920-2	.5005	U	.494	mg/L	99	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.5005	U	.496	mg/L	99	85	115	0	20	
Boron, dissolve	d		M200.7 IC	P									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	1190926-2	2		2.005	mg/L	100	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.06	0.06			
WG482957LFB	LFB	10/02/19 18:40	1190920-2	.5005		.513	mg/L	102	85	115			
L50323-29AS	AS	10/02/19 18:53	1190920-2	.5005	.03	.545	mg/L	103	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.5005	.03	.547	mg/L	103	85	115	0	20	
Cadmium, disso	olved		M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482416													
WG482416ICV	ICV	09/25/19 16:19	MS190806-2	.05		.050068	mg/L	100	90	110			
WG482416ICB	ICB	09/25/19 16:21	_			U	mg/L		-0.00011	0.00011			
WG482416LFB	LFB	09/25/19 16:22	MS190905-3	.05005		.052201	mg/L	104	85	115			
L54721-02AS	AS	09/25/19 16:57	MS190905-3	.05005	.00015	.048544	mg/L	97	70	130			
L54721-02ASD	ASD	09/25/19 17:02	MS190905-3	.05005	.00015	.049158	mg/L	98	70	130	1	20	

Laboratories, Inc. *Inhill Drive* Steamboat Springs, CO 80487 (800) 334-5493

2773 Downhill Drive

GCC Rio Grande

ACZ Project ID: L54721

Chromium, disso	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG483042													
WG483042ICV	ICV	10/04/19 0:37	1190926-2	2		2.004	mg/L	100	95	105			
WG483042ICB	ICB	10/04/19 0:43				U	mg/L		-0.03	0.03			
WG483042LFB	LFB	10/04/19 0:56	1190920-2	.501		.521	mg/L	104	85	115			
L42796-84AS	AS	10/04/19 1:09	II190920-2	.501	U	.518	mg/L	103	85	115			
L42796-84ASD	ASD	10/04/19 1:12	II190920-2	.501	U	.514	mg/L	103	85	115	1	20	
Cobalt, dissolve	d		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	1190926-2	2.002		1.926	mg/L	96	95	105			
WG482957ICB	ICB	10/02/19 18:27		2.002		U	mg/L		-0.03	0.03			
WG482957LFB	LFB	10/02/19 18:40	1190920-2	.5		.478	mg/L	96	85	115			
L50323-29AS	AS	10/02/19 18:53	1190920-2	.5	U	.487	mg/L	97	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.5	U	.484	mg/L	97	85	115	1	20	
Connor dissolve	vd		M200.7 I	^p									
	Tume	Analuzed	BCN/SCN	00	Sample	Found	Unite	Bec%	Lower	Upper	PPD	Limit	Qual
NG402057	туре	Anaryzeu	PCN/SCN		Sample	rounu	Units	Rec /a	Lower	opper	RFD	Emm	scuar
WG482957													
WG482957ICV	ICV	10/02/19 18:21	ll190926-2	2		1.927	mg/L	96	95	105			
WG48295/ICB	ICB	10/02/19 18:27				U	mg/∟		-0.03	0.03			
VVG482957LFB	LFB	10/02/19 18:40	1190920-2	.5005		.478	mg/L	96	85	115			
L50323-29AS	AS	10/02/19 18:53	11190920-2	.5005	U	.488	mg/c	98	85	115			
1 50202 204 00	ACD	10/00/10 10/56	11400000 0	5005		400	mail	00	05	445	•	20	
L50323-29ASD	ASD	10/02/19 18:56	ll190920-2	.5005	U	.489	mg/L	98	85	115	0	20	
L50323-29ASD Fluoride	ASD	10/02/19 18:56	II190920-2 SM4500F	.5005 C	U	.489	mg/L	98	85	115	0	20	
L50323-29ASD Fluoride ACZ ID	ASD Type	10/02/19 18:56 Analyzed	II190920-2 SM4500F PCN/SCN	.5005 C QC	U Sample	.489 Found	mg/L Units	98 Rec%	85 Lower	115 Upper	0 RPD	20 Limit	Qual
Fluoride ACZ ID WG482081	ASD Type	10/02/19 18:56 Analyzed	II190920-2 SM4500F PCN/SCN	.5005 F-C QC	U Sample	.489 Found	mg/L Units	98 Rec%	85 Lower	115 Upper	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride ACZ ID WG482081 WG482081ICV	ASD Type ICV	10/02/19 18:56 Analyzed 09/20/19 13:42	II190920-2 SM4500F PCN/SCN WC190920-1	.5005 C QC 2.004	U Sample	.489 Found 2.01	mg/L Units mg/L	98 Rec% 100	85 Lower 90	115 Upper 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride ACZ ID WG482081 WG482081ICV WG482081ICB	ASD Type ICV ICB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49	II190920-2 SM4500F PCN/SCN WC190920-1	.5005 C QC 2.004	U Sample	.489 Found 2.01 U	mg/L Units mg/L mg/L	98 Rec% 100	85 Lower 90 -0.3	115 Upper 110 0.3	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1	ASD Type ICV ICB LFB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6	.5005 C 2.004 5.01	U Sample	.489 Found 2.01 U 4.84	mg/L Units mg/L mg/L mg/L	98 Rec% 100 97	85 Lower 90 -0.3 90	115 Upper 110 0.3 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2	ASD Type ICV ICB LFB LFB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6	.5005 C 2.004 5.01 5.01	U Sample	.489 Found 2.01 U 4.84 4.71	mg/L Units mg/L mg/L mg/L	98 Rec% 100 97 94	85 Lower 90 -0.3 90 90	115 Upper 110 0.3 110 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS	ASD Type ICV ICB LFB AS	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190409-6	.5005 	U Sample U	.489 Found 2.01 U 4.84 4.71 4.64	mg/L Units mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93	85 Lower 90 -0.3 90 90 90	115 Upper 110 0.3 110 110 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD	ASD Type ICV ICB LFB AS ASD	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6	.5005 C 2.004 5.01 5.01 5.01 5.01	U Sample U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58	mg/L Units mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91	85 Lower 90 -0.3 90 90 90 90	115 Upper 110 0.3 110 110 110 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609	ASD Type ICV ICB LFB LFB AS ASD	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6	.5005 C 2.004 5.01 5.01 5.01 5.01	U Sample U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58	mg/L Units mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91	85 Lower -0.3 90 90 90 90	115 Upper 110 0.3 110 110 110 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609 WG482609ICV	ASD Type ICV ICB LFB LFB AS ASD ICV	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6	.5005 	U Sample U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105	85 Lower -0.3 90 90 90 90 90	115 Upper 110 0.3 110 110 110 110 110	0 RPD	20 Limit	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609 WG482609ICV WG482609ICB	ASD Type ICV ICB LFB AS ASD ICV ICB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6	.5005 a C 2.004 5.01 5.01 5.01 5.01 2.004	U Sample U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105	85 Lower 90 -0.3 90 90 90 90 90 -0.3	115 Upper 110 0.3 110 110 110 110 110 110 0.3	0 RPD	20 Limit 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609 WG482609ICV WG482609ICB WG482609LFB1	ASD Type ICV ICB LFB AS ASD ICV ICB LFB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 13:57 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:32	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 5.01 2.004 5.01	U Sample U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109	85 Lower 90 -0.3 90 90 90 90 -0.3 90	115 Upper 110 0.3 110 110 110 110 110 0.3 110	0 RPD	20 Limit 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22AS WG482609 WG482609 WG482609ICV WG482609ICB WG482609LFB1 L37465-122AS	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 13:57 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:32 09/27/19 9:39	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01 5.01 5.01	U Sample U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98	85 Lower -0.3 90 90 90 90 -0.3 90 -0.3 90 90	115 Upper 110 0.3 110 110 110 110 110 0.3 110 110	0 RPD	20 Limit 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081IC8 WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609 WG482609ICV WG482609ICV WG482609LFB1 L37465-122AS L37465-122ASD	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 13:57 09/20/19 13:69 09/20/19 17:19 09/27/19 9:19 09/27/19 9:19 09/27/19 9:32 09/27/19 9:39 09/27/19 9:45	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190920-1 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01 5.01 5.01 5.01 5.01	U Sample U U .1 .1	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98	85 Lower 90 -0.3 90 90 90 90 -0.3 90 90 90 90 90	115 Upper 110 0.3 110 110 110 110 110 0.3 110 110 110 110	0 RPD 1	20 Limit 20 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609 WG482609ICV WG482609ICV WG482609ICB WG482609ICB WG482609LFB1 L37465-122ASD L37465-122ASD WG482706	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:39 09/27/19 9:45	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190920-1 WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6 WC190409-6	.5005 C 2.004 5.01 5.01 5.01 2.004 5.01 5.01 5.01 5.01 5.01 5.01 5.01	U Sample U U .1 .1	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98	85 Lower 90 -0.3 90 90 90 90 90 90 -0.3 90 90 90 90	115 Upper 110 0.3 110 110 110 110 110 110 110	0 RPD 1	20 Limit 20 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22AS WG482609 WG482609ICV WG482609ICV WG482609ICB WG482609LFB1 L37465-122AS L37465-122AS UG482706 WG482706	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD ICV	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:39 09/27/19 9:45	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01	U Sample U U U .1 .1	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02 2.08	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98 98 104	85 Lower 90 -0.3 90 90 90 90 90 90 -0.3 90 90 90 90 90	115 Upper 110 0.3 110 110 110 110 110 110 110 110	0 RPD 1	20 Limit 20 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22ASD WG482609 WG482609ICV WG482609ICV WG482609LFB1 L37465-122AS L37465-122ASD WG482706 WG482706ICV WG482706ICV	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD ICV ICB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:39 09/27/19 9:45 09/30/19 14:42 09/30/19 14:47	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-1	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01	U Sample U U U .1 .1	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02 2.08 U	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98 98 104	85 Lower 90 -0.3 90 90 90 90 90 -0.3 90 90 90 90 -0.3	115 Upper 110 0.3 110 110 110 110 110 0.3 110 110 110 110 0.3	0 RPD 1	20 Limit 20 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081 WG482081ICV WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22AS WG482609 WG482609ICV WG482609ICV WG482609LFB1 L37465-122AS L37465-122AS UG482706 WG482706ICV WG482706ICB WG482706LFB1	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD ICV ICB LFB	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 16:02 09/20/19 17:06 09/20/19 17:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:32 09/27/19 9:35 09/27/19 9:45	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6 WC190409-6 WC190920-1 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01	U Sample U U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02 2.08 U 5.09	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98 98 104 102	85 Lower 90 -0.3 90 90 90 90 90 -0.3 90 90 90 90 -0.3 90 90 -0.3 90	115 Upper 110 0.3 110 110 110 110 110 110 110 110 110 0.3 110	0 RPD 1	20 Limit 20 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081ICV WG482081ICB WG482081ICB WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22AS L54587-22ASD WG482609ICV WG482609ICV WG482609ICB WG482609LFB1 L37465-122ASD WG482706ICV WG482706ICS WG482706LFB1 L39579-106AS	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD ICV ICB LFB AS	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 13:57 09/20/19 16:02 09/20/19 17:19 09/27/19 9:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:39 09/27/19 9:39 09/27/19 9:45 09/30/19 14:42 09/30/19 14:54 09/30/19 15:05	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01	U Sample U U .1 .1	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02 2.08 U 5.09 4.82	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98 98 104 102 96	85 Lower 90 -0.3 90 90 90 90 90 -0.3 90 90 90 -0.3 90 90 -0.3 90 90	115 Upper 110 0.3 110 110 110 110 110 110 110 110 0.3 110 110 0.3 110 110	0 RPD 1	20 Limit 20 20	Qual
L50323-29ASD Fluoride AC2 ID WG482081ICV WG482081ICB WG482081ICB WG482081ICB WG482081LFB1 WG482081LFB2 L54587-22AS L54587-22AS UG482609 WG482609ICV WG482609ICV WG482609LFB1 L37465-122AS L37465-122AS L37465-122ASD WG482706IC WG482706ICV WG482706ICS WG482706LFB1 L39579-106AS L39579-106ASD	ASD Type ICV ICB LFB AS ASD ICV ICB LFB AS ASD ICV ICB LFB AS ASD	10/02/19 18:56 Analyzed 09/20/19 13:42 09/20/19 13:49 09/20/19 13:57 09/20/19 13:57 09/20/19 16:02 09/20/19 17:19 09/27/19 9:19 09/27/19 9:19 09/27/19 9:24 09/27/19 9:39 09/27/19 9:39 09/27/19 9:45 09/30/19 14:42 09/30/19 14:54 09/30/19 15:13	II190920-2 SM4500F PCN/SCN WC190920-1 WC190409-6 WC190409-6	.5005 QC 2.004 5.01 5.01 5.01 2.004 5.01	U Sample U U U U U U U U U	.489 Found 2.01 U 4.84 4.71 4.64 4.58 2.1 U 5.45 5 5.02 2.08 U 5.09 4.82 4.91	mg/L Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	98 Rec% 100 97 94 93 91 105 109 98 98 104 102 96 98	85 Lower 90 -0.3 90 90 90 90 90 -0.3 90 90 90 -0.3 90 90 -0.3 90 90 90	115 Upper 110 0.3 110 110 110 110 110 110 110 110 110 11	0 RPD 1 0	20 Limit 20 20 20	Qual

nhill Drive Steamboat Springs, CO 80487 (X А

(800) 334-5493 2773 Downhill Drive

Inorganic QC Summary

GCC Rio Grande

ACZ Project ID: L54721

lron, dissolved			M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2		1.932	mg/L	97	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.09	0.09			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	1.0018		1.015	mg/L	101	85	115			
L50323-29AS	AS	10/02/19 18:53	II190920-2	1.0018	U	1.03	mg/L	103	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	1.0018	U	1.029	mg/L	103	85	115	0	20	
Lead, dissolved			M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482416													
WG482416ICV	ICV	09/25/19 16:19	MS190806-2	.05		.05138	mg/L	103	90	110			
WG482416ICB	ICB	09/25/19 16:21				U	mg/L	100	-0.00022	0.00022			
WG482416LFB	LFB	09/25/19 16:22	MS190905-3	.05005		.0539	mg/L	108	85	115			
L54721-02AS	AS	09/25/19 16:57	MS190905-3	.05005	.001	.05463	mg/L	107	70	130			
L54721-02ASD	ASD	09/25/19 17:02	MS190905-3	.05005	.001	.05547	mg/L	109	70	130	2	20	
Lithium, dissolv	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	1190926-2	2		1 9315	ma/l	97	95	105			
WG482957ICB	ICB	10/02/19 18:27		2		1.0010	ma/L	07	-0 024	0.024			
WG4829571 FB	I FR	10/02/19 18:40	II190920-2	1 002		9287	ma/L	93	85	115			
1 50323-29AS	AS	10/02/19 18:53	II190920-2	1 002	064	9901	ma/L	92	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	1.002	.064	.9894	mg/L	92	85	115	0	20	
Mongonoon diog	aluad		M200.7 J	<u>~р</u>									
Manyanese, uiss	Juiveu	8 m als m a d			Ormala	Found	11	D = = 0/	1	lles en	000	1 : :4	0
ACZ ID	туре	Anaryzeu	PCN/SCN	ພະ	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Quai
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2		1.951	mg/L	98	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.03	0.03			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	.5015		.497	mg/L	99	85	115			
L50323-29AS	AS	10/02/19 18:53	II190920-2	.5015	U	.507	mg/L	101	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.5015	U	.509	mg/L	101	85	115	0	20	
Mercury, dissolv	red		M245.1 C	XAA									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482137													
WG482137ICV	ICV	09/24/19 10:47	HG190911-3	.004995		.00492	mg/L	98	90	110			
WG482137ICB	ICB	09/24/19 10:48				U	mg/L		-0.0006	0.0006			
WG482203													
WG482203LRB	LRB	09/24/19 17:11				U	mg/L		-0.00044	0.00044			
WG482203LFB	LFB	09/24/19 17:12	HG190924-3	.002002		.00177	mg/L	88	85	115			
L54740-01LFM	LFM	09/24/19 17:18	HG190924-3	.002002	U	.0018	mg/L	90	85	115			
L54740-01LFMD	LFMD	09/24/19 17:19	HG190924-3	.002002	U	.0018	mg/L	90	85	115	0	20	

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

2773 Downhill Drive

GCC Rio Grande

ACZ Project ID: L54721

Nickel, dissolve	d		M200.7 IC	Ρ									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2.004		1.9328	mg/L	96	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.024	0.024			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	.501		.484	mg/L	97	85	115			
L50323-29AS	AS	10/02/19 18:53	II190920-2	.501	U	.4881	mg/L	97	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.501	U	.4885	mg/L	98	85	115	0	20	
Nitrate/Nitrite as	N, diss	olved	M353.2 - A	Automate	d Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482110													
WG482110ICV	ICV	09/21/19 0:15	WI190809-1	2.416		2.492	mg/L	103	90	110			
WG482110ICB	ICB	09/21/19 0:16				U	mg/L		-0.02	0.02			
WG482110LFB1	LFB	09/21/19 0:21	WI190405-9	2		2.012	mg/L	101	90	110			
L54711-02AS	AS	09/21/19 0:43	WI190405-9	2	U	2.073	mg/L	104	90	110			
L54711-03DUP	DUP	09/21/19 0:45			U	U	mg/L				0	20	RA
WG482110LFB2	LFB	09/21/19 1:01	WI190405-9	2		2.035	mg/L	102	90	110			
L54721-02AS	AS	09/21/19 1:33	WI190405-9	20	10.1	30.08	mg/L	100	90	110			
L54721-03DUP	DUP	09/21/19 1:36			10.8	10.88	mg/L				1	20	
Nitrite as N, diss	solved		M353.2 - A	Automate	d Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482110													
WG482110ICV	ICV	09/21/19 0:15	WI190809-1	.609		.622	mg/L	102	90	110			
WG482110ICB	ICB	09/21/19 0:16				U	mg/L		-0.01	0.01			
WG482110LFB1	LFB	09/21/19 0:21	WI190405-9	1		.977	mg/L	98	90	110			
L54711-02AS	AS	09/21/19 0:43	WI190405-9	1	U	.981	mg/L	98	90	110			
L54711-03DUP	DUP	09/21/19 0:45			U	U	mg/L				0	20	RA
WG482110LFB2	LFB	09/21/19 1:01	WI190405-9	1		1.014	mg/L	101	90	110			
L54721-02AS	AS	09/21/19 1:08	WI190405-9	1	.02	1.031	mg/L	101	90	110			
L54721-03DUP	DUP	09/21/19 1:10			.08	.078	mg/L				3	20	RA
Residue, Filtera	ble (TDS	i) @180C	SM2540C										
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482425													
WG482425PBW	PBW	09/25/19 14:35				U	mg/L		-40	40			
WG482425LCSW	LCSW	09/25/19 14:37	PCN59650	1000		980	mg/L	98	80	120			
L54804-07DUP	DUP	09/25/19 14:58			28	22	mg/L				24	10	RA
WG482575													
WG482575PBW	PBW	09/26/19 15:52				U	mg/L		-40	40			
WG482575LCSW	LCSW	09/26/19 15:54	PCN59650	1000		1000	mg/L	100	80	120			
L54812-05DUP	DUP	09/26/19 16:23			2500	2450	mg/L				2	10	RA

H Drive Steamboat Springs, CO 80487 (4)

(800) 334-5493 2773 Downhill Drive

GCC Rio Grande

ACZ Project ID: L54721

Selenium, disso	lved		M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482416													
WG482416ICV	ICV	09/25/19 16:19	MS190806-2	.05		.0508	mg/L	102	90	110			
WG482416ICB	ICB	09/25/19 16:21				U	mg/L		-0.00022	0.00022			
WG482416LFB	LFB	09/25/19 16:22	MS190905-3	.05005		.05234	mg/L	105	85	115			
L54721-02AS	AS	09/25/19 16:57	MS190905-3	.05005	.0762	.13148	mg/L	110	70	130			
L54721-02ASD	ASD	09/25/19 17:02	MS190905-3	.05005	.0762	.13346	mg/L	114	70	130	1	20	
Vanadium, diss	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2		1.9575	mg/L	98	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.015	0.015			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	.5005		.5006	mg/L	100	85	115			
L50323-29AS	AS	10/02/19 18:53	II190920-2	.5005	.042	.536	mg/L	99	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.5005	.042	.5411	mg/L	100	85	115	1	20	
Zinc, dissolved			M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG482957													
WG482957ICV	ICV	10/02/19 18:21	II190926-2	2		1.966	mg/L	98	95	105			
WG482957ICB	ICB	10/02/19 18:27				U	mg/L		-0.03	0.03			
WG482957LFB	LFB	10/02/19 18:40	II190920-2	.50075		.512	mg/L	102	85	115			
L50323-29AS	AS	10/02/19 18:53	II190920-2	.50075	U	.514	mg/L	103	85	115			
L50323-29ASD	ASD	10/02/19 18:56	II190920-2	.50075	U	.515	mg/L	103	85	115	0	20	

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

Inorganic Extended Qualifier Report

GCC Rio Grande

ACZ Project ID: L54721

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L54721-01	WG482110	Nitrate/Nitrite as N, dissolved	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, dissolved	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).
	WG482425	Residue, Filterable (TDS) @180C	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).
L54721-02	NG482110	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
			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).
	WG482425	Residue, Filterable (TDS) @180C	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).
L54721-03	WG482110	Nitrite as N, dissolved	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).
	WG482575	Residue, Filterable (TDS) @180C	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).
	WG482416	Selenium, dissolved	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.



Certification Qualifiers

ACZ Project ID: L54721

No certification qualifiers associated with this analysis

Name: Diana Furman Address: 3372 Lime Road, Pueblo, CC Company: GCC Rio Grande Inc. Telephone: Telephone: Telephone: Name: Company: E-mail: Telephone: Telephone: Invoice to: Address: 3372 Lime Road, Pueblo, CC Name: Company: E-mail: Telephone: Invoice to: Address: 3372 Lime Road, Pueblo, CO Name: Diana Furman Address: 3372 Lime Road, Pueblo, CO Company: GCC Rio Grande Inc. Telephone: Telephone: Telephone: If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES nantysis before expiration, shall ACZ present of the remetated andprase, went HT is report. NO YES analysis before expiration, shall ACZ present of the remetated andprase, went HT is report. NO YES Sampler's Signature: No YES No YE 'f yes, please include state forms. Results will be reported to PQL for Colorado. State CO Zip code 81004 Time Z 'f yes, please include NRC licensed material? 'f attration the adventity and will be reported to PQL for Colorado. YE YE	Report to:										
Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com Copy of Report to: Telephone: Name: E-mail: Company: Telephone: Invoice to: Address: Name: Diana Furman Company: Address: Invoice to: Address: Name: Diana Furman E-mail: Telephone: Telephone: (719)647-6861 If sample(s) received past holding time (HT), or if insufficient HT remains to complete state of complete expiration, shall AC2 will proteed with the requested shart HT analyses? No If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: D. Furman Sampler's Name: D. Furman Sampler's site Information State_CO Zip code 81004	_{Name:} Diana Furmar			Addr	ess: 3	3372	ime l	Road.	Pueb	olo, Co	o i
E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name:: Diana Furman Company: Address: 3372 Lime Road, Pueblo, CO Company: GCC Rio Grande Inc. E-mail: Telephone: If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall AG2 proceed with requested short HT analyses? NO If vero thera? No Xes If yes, please include state forms. Results will be reported to PQL for Colorado. No Xes Sampler's Name: D. Furman Sampler's Site Information State_CO zip code_81004_Time zes PROJECT INFORMATION MAVSES HEQUESTED (ethick intercolor, in the superior with the sample in enywey, is conferred fract and punitable by state taw. PROJECT INFORMATION MALVES HEQUESTED (ethick intercolor, in the superior in enywey, is conferred fract and punitable by state taw. PO:#: N/A Yes Yes Yes Yes MW-6 GJ[[9] [9] (9] (2] (2] GW 3 Yes Yes Yes Yes MW-7 GJ[[8] [9] (9] (2] (2] GW 3 Yes Yes	Company: GCC Rio G	rande Inc.	_								
Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: Address: 3372 Lime Road, Pueblo, CO Company: GCC Rio Grande Inc. E-mail: Integration of the processor of the procesor of the processor of the procesor of the processor of the proces	E-mail: dfurman@gcc	.com		Telep	ohone:	(719))647-6	5861			
Name: E-mail: Company: Telephone: Invoice to: Address: 3372 Lime Road, Pueblo, CO Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: ff sample(s) received past holding time (HT), or if insufficient HT remains to complete Are samples for SDWA Compliance Monitoring? Yes Are sampler's for SDWA Compliance Monitoring? Yes If yes, please include state forms. Results will be reported to PQL for Colorado. No Sampler's Signature: **attest to the addretic first and widthy of this angle. Linearthand that interdetimally widthe to the requested angly as angle in symp. Kondicered final angle width width or unsequest mathematication. The part of this angle. Linearthand that interdetimally widthed widthy of this angle. Linearthand that interdetimally widthed width or unsequest mathematication. The part of the angle in mywer, Kondicered final angle interpret with the sample in symp. Kondicered final angle interpret with the sample in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in the angle interpret in the angle in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in the angle in mywer, Kondicered final angle interpret in mywer, Kondicered final angle interpret inthe angle interpret interpret in mywer, Konditered final angle inte	Copy of Report to:		_								
Company: Telephone: Invoice to: Address: 3372 Lime Road, Pueblo, CO Name: Diana Furman E-mail: dfurman@gcc.com If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall ACZ proceed with requested short HT analyses? NO If "Wo' then ACZ will contact client for further instruction. If netther "SS' nor "NO" is indicated, ACZ will proceed with the requested analyses, even HT is expled, and data will be que Are samples for SDWA Compliance Monitoring? Yes If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: D. Eurman Sampler's Signature:	Name:			E-ma	ail:						
Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall ACZ proceed with requested short HT analyses? No If voor then ACZ will contact client to further instruction. If neither 'YES' nor 'No'' is indicated. ACZ will proceed with the requested analyses, even if HT is reprised, and data will be quarkers in the requested analyses? No If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Signature:	Company:		1	Teler	phone:						····
Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall ACZ proceed with requested short HT analyses? No If "Wo" then ACZ will contact client for further instruction. If neither 'YES' nor "Wo" is indicated, ACZ will proceed with the requested analyses, even if HT is explicit, and data will be que Are samples for SDWA Compliance Monitoring? Yes If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: Sampler's Signature:	Invoice to:		······								
Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall ACZ proceed with requested short HT analyses? NO If "Wo" the ACZ will contact client to further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be que Are samples for SDWA Compliance Monitoring? Yes If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Signature: **ample's Signature:	_{Name:} Diana Furman			Addre	ass. 3	3721	ime R	oad	Puehl	o CC) 2
E-mail: dfurman@gcc.com Telephone: (719)647-6861 If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? NO If "WO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, wen if HT is expired, and data will be que Are samples for SDWA Compliance Monitoring? Yes No Xo If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Signature: Yes No Xo "sampler's Signature: Yes Information state Colorado. Zip code_81004 Time Z PROJECT INFORMATION Av4/2YES REQUESTED citate histor use quoted material? Ya Ya </td <td>Company: GCC Rio G</td> <td>rande Inc.</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>Jau,</td> <td>ucul</td> <td>0,00</td> <td></td>	Company: GCC Rio G	rande Inc.	-					Jau,	ucul	0,00	
If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall ACZ proceed with requested short HT analyses? NO If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be que Are samples for SDWA Compliance Monitoring? Yes No Xi If yes, please include state forms. Results will be reported to PQL for Colorado. Zip code 81004 Time Z Sampler's Signature: ************************************	E-mail: dfurman@gcc	.com		Teler	hone:	(719)	647-6	5861			
analysis before expiration, shall ACZ proceed with requested short HT analyses? NO If "No" then ACZ will contact client for further instruction. If neither "YES" no "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be que	If sample(s) received past h	olding time (HT), or if insuffic	ient HT rei	mains	to com	olete				YES	
Are samples for SDWA Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: D. FUrman Sampler's Site Information State_CO	analysis before expiration,	shall ACZ proceed with request instruction. If neither "VES" are "NOT to the	sted short	HT an	alyses?					NO	Ľ
If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: D. Furman Sampler's Site Information State CO Zip code 81004 Time Z 'sampler's Signature:	Are samples for SDWA Con	pliance Monitoring?	cateo, AGZ will ;	Proceed w Yes	the requ	ested analy	ses, even it NO	HT is expir	ed, and dat	a will be qu	alifie
Sampler's Name: D. Eurman Sampler's Site Information State_CO Zip code_81004 Time Z "Sampler's Signature: Itatest to the authenticity and validity of this sample. Funderstand that intentionally mislabeling the time tampening with the sample in anyway, is condered find and publishable by State Law. PROJECT INFORMATION AMALYSES REQUESTED (attach list or use quote numbers) Quote #: GW-COMPLIANCE 03/27/2019 Image: GW-COMPLIANCE 03/27/	If yes, please include state	forms. Results will be reported	to PQL f	or Cold	orado.				J		
*Sampler's Signature: Image: Constraint of the authenticity in a validity of this sample. Lunderstand that intentionally midabeling the time tampers include in the sample state taw. PROJECT INFORMATION AVALYSES REQUESTED (stach list or use quote nur tawes), is considered fraud and punishable by state taw. Quote #: GW-COMPLIANCE 03/27/2019 good table in the sample state taw. PO#: N/A The authenticity is anywey, is considered fraud and punishable by state taw. Reporting state for compliance testing: Colorado Colorado Check box if samples include NRC licensed material? The authenticity and widity of this sample. Image: Colorado MW-6 (JI)9/19 \$:32 GW S Image: Colorado MW-7 (JI)8/19 (0:45 GW Image: Colorado Image: Colorado MW-7 (JI)8/19 (0:45 GW Image: Colorado Image: Colorado Image: Colorado MW-7 (JI)8/19 (0:45 GW Image: Colorado Image: Colorado Image: Colorado MW-7 (JI)8/19 (0:45 GW Image: Colorado Image: Colorado Image: Colorado Image: Colorado Image: Colorado MW-6 (JI)9/19 \$:32 GW Image: Colorado Image: Colorado <td< td=""><td>Sampler's Name: D. Furn</td><td>Sampler's Site Inform</td><td>nation</td><td>State_</td><td>CO</td><td></td><td>Zip co</td><td>de 81</td><td>004</td><td>Time</td><td>Zor</td></td<>	Sampler's Name: D. Furn	Sampler's Site Inform	nation	State_	CO		Zip co	de 81	004	Time	Zor
PROJECTINIFORMATION AWALYSES REQUESTED (attach list or use quote nut Quote #: GW-COMPLIANCE 03/27/2019 ** PO#: N/A ** ** Reporting state for compliance testing: Colorado ** ** ** Check box if samples include NRC licensed material? **	*Sampler's Signature:	*) attes tamper	to the authentions in the same same same same same same same sam	city and val ple in anyw	idity of this ray, is consid	sample. I ur ered fraud	derstand th and punisha	at intention ble by State	ally mislabe Law.	ling the tim	e/dat
Quote #: GVV-COMPLIANCE 03/27/2019 9 PO#: N/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? 1 SAMPLE IDENTIFICATION DATE:TIME MW-6 () 9) 9<	PROJECT INFORMATION				ANA	LYSES RI	EQUESTE	D (attach	list or use	e quote nu	mb
PO#: IV/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? □ SAMPLEIDENTIFICATION DATE:TIME MW-6 (JIQ)19 \$:32 GW 3 区 □	Quote #: GVV-COMPLIA	NCE 03/27/2019		ers	but						
Reporting state for compliance testing: COIOFado 5 <t< td=""><td>PO#: N/A</td><td>0-1</td><td></td><td>tain</td><td>quote</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	PO#: N/A	0-1		tain	quote						
Check box if samples include NRC licensed material? L 5 6 6 6 6 6 6 6 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 <th7< th=""> 7 7</th7<>	Reporting state for complianc	e testing: Colorado		Con	ched						
MW-6 Ultime Water Mile Water Mile Water Mile MW-6 Ultime GW 3 Image: Constraint of the second sec	Check box if samples include	NRC licensed material?		f of	rattav PH						1
MW-7 Ø 18 19 0:45 GW 3 ⊠ □ <td></td> <td></td> <td>Watrix</td> <td>¥</td> <td>25</td> <td>Reason in the local sector</td> <td></td> <td></td> <td></td> <td></td> <td>Ļ</td>			Watrix	¥	25	Reason in the local sector					Ļ
MW-2B ()1@1/9 S:32 GW 3 ⊠ □ □ □ □ □ MW-2B ()1@1/9 S:32 GW 3 ⊠ □	M\\\/_7	alighic lower	GW	<u>১</u> ২							μ
	MW-2B	(10117 10.45	GW	3						╞╋	
		Ungit 1 2.54	- 500	<u> </u>		H				H	H
											\parallel
						Π					
			+				Г	H	H	H	╎
			1		Π		П				
			+		Π		Π	F		П	
					Π					П	
matrix ovv (oundee water) ovv (oround water) www (waste water) ovv (Drinking water) is (Studge) is of Soin in Oron in Other	Matrix SW (Surface Water)	· GW (Ground Water) · WW (Waste	Water) · DV	V (Drinki	ing Wate) · SL (S	ludge)	SO (Soil)	· 01 /01	il) · Other	r / 4

Page 13 of 15

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

		i	ļ	
		ŝ	ļ	5
			4	۲
		ł	ł	ĩ
		Ċ	١	
		b	ľ	
		ł	İ	
l		ł	Ï	
	Ľ	i	1	
2	2	ì	f	
0	ł	r		
		t	;	
ļ		ł	1	
		ł		ł
		ť	ł	
		ł	Ì	
		2	ľ	
		J	į	
			l	
		ì	i	ļ
		r	į	ł
		l	l	l
				l
ļ		ì	(
			l	
		1	ì	
		ł	Ì	
		l	l	
		1		
		1		
				f
		ł		ł

Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Page 1 of 2 3/27/2019

Quote Number: GW-COMPLIANCE

Matrix: Groundwater

Quarterly Groundwater Compliance Monitoring: 2019 4 samples Qtr.

Parameter	Method	Detection Limit	Cost/Sample
Metals Analysis			
Dissolved Metals by ICP			\$85.00
Aluminum, dissolved	M200.7 ICP	0.03 mg/L	\$0.00
Arsenic, dissolved	M200.7 ICP	0.04 mg/L	\$0.00
Beryllium, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Boron, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Cadmium, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Chromium, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Cobalt, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Copper, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Iron, dissolved	M200.7 ICP	0.02 mg/L	\$0.00
Lead, dissolved	M200.7 ICP	0.03 mg/L	\$0.00
Lithium, dissolved	M200.7 ICP	0.008 mg/L	\$0.00
Manganese, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Mercury, dissolved	M245.1 CVAA	0.0002 mg/L	\$22.00
Nickel, dissolved	M200.7 ICP	0.008 mg/L	\$0.00
Selenium, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$30.00
Vanadium, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Zinc, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Misc.			
Electronic Data Deliverable			\$0.00
Quality Control Summary			\$0.00
Wet Chemistry			
Fluoride	SM4500F-C	0.05 mg/L	\$11.00
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	Calculation	\$0.00
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Redu	0.02 mg/L	\$11.00
Nitrite as N, dissolved	M353.2 - Automated Cadmium Redu	0.01 mg/L	\$11.00
·pH (lab)			
Residue, Filterable (TDS) @180C	SM2540C	10 mg/L	\$14.00
		Cost/Sample:	\$184.00

This quote is based on a Standard Turn Around Time (TAT) of approximately 14 days (10 business days). TAT may vary with seasonal heavy workload. Please contact your PM if rush TAT is required. Rush TAT must 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 Invoice Charge. Please note that method detection limits are estimates and may be elevated depending on sample matrix that require dilution. Pricing includes coolers, bottles pre-preserved as needed, labels, COCs and Ice-packs 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.

REPAD.09.06.05.01

S/ tjv D/ ## P/

Page 14 of 15





Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Page 2 of 2 3/27/2019

Quote Number: GW-COMPLIANCE

CONTRACT DETAILS

Pricing includes coolers, bottles pre-preserved as needed, labels, COCs and ice-packs shipped to your site or office via UPS ground. Return shipping is the responsibility of the client. 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 requirements. 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)

REPAD.09.06.05.01

S/ tjv D/ ## P/

L54721-1910041334

Page 15 of 15

aboratories, In	c (34	72	(С	HAI	N of	CUS	втоі	ΟY
oat Springs, CO 80487 (800)	334-5493		\sim	``						
		Addr	ess: 3	372 L	_ime F	Road,	Pueb	lo, CC	0 810	04
rande Inc.	_	L								
.com		Telep	hone:	(719)	647-6	5861				
		E-ma	il:							
		Telep	hone:							
									141	
		Addre		372 I i	ime R	oad I	Puehlo	n CO	8100	И
ande Inc.	-1	/ la la la				<u>, , , , , , , , , , , , , , , , , , , </u>		, 00	0100	
com		Teler	hone:	(719)	647-6	5861				
olding time (HT), or if insuffic	ient HT re	mains	to com	olete				YES	×	
hall ACZ proceed with reque	sted shor	t HT an	alyses?	,				NO		
pliance Monitoring?	icated, ACZ will	Yes	th the requ	ested analys	ses, even if	HT is expir	ed, and data	will be qua	lified	
orms. Results will be reported	d to PQL i	or Cold	rado.	1	NO	a said	J			
an Sampler's Site Infor	mation	State	со		Zip co	_{de} 81	004	Time Z	one M	DT
*i attes tamperi	t to the authent ing with the sam	icity and val ple in anyw	idity of this : ay, is consid	ampie. I un ered fraud a	derstand th Ind punisha	at intention bie by State	ully mislabel Law.	ing the time	/date/locati	on or
			ANA	LYSES RE	QUESTE	D (attach	ist or use	quote nu	mber)	
NCE 03/27/2019		s	et.							
		aine	Jote t							
e testing: Colorado		out	ip ber							
NRC licensed material?		of C	attacl							
DN DATE:TIME	Matrix	#	Per							
6/19/19 8:32	GW	3	×							
0118/19/10:45	GW	3	×							
619119 8:32	GW	3	×							
	+									
	_									
				무						
				片				믵		
								ᆜ		
	1							- E i i		
GWI (Ground Mater) MAAI 041-1-	Moto -	AL /D	- 101 1	<u> </u>						
	rande Inc. .com Tande Inc. Com olding time (HT), or if insuffic shall ACZ proceed with reque reinstruction. If neither "YES" nor "NO" is ind ipliance Monitoring? forms. Results will be reported in Sampler's Site Inform "lattest tamper NNCE 03/27/2019 The testing: Colorado NRC licensed material? ON DATE:TIME G/IG/IG \$:32 018/IG 10:45 G/IG/IG 8:32	rande Inc. .com ande Inc. .com olding time (HT), or if insufficient HT re shall ACZ proceed with requested short r instruction. If neither "YEs" nor "NO" is indicated, ACZ will pliance Monitoring? orms. Results will be reported to PQL f nan Sampler's Site Information "lattest to the authent tampering with the sam NCE 03/27/2019 e testing: Colorado NRC licensed material? DN DATE:TIME Matrix G/IIIIII S: 32_ GW 0118119 10:45 GW G/IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	rande Inc. Telep .com Telep .com E-ma Telep Telep .com .com .com .com </td <td>rande Inc. Telephone: .com E-mail: Telephone: Telephone: .address: 3. rande Inc. Address: .com E-mail: Telephone: Telephone: .address: 3. .ande Inc. Telephone: .com Telephone: .oddress: 3. .ande Inc. Telephone: .com Telephone: .oddress: 3. .ande Inc. Telephone: .oddress: 3. .ande Inc. Telephone: .oddress: 3. .andress: 3. .andress:</td> <td>Address: 3372 L rande Inc. Telephone: .com E-mail: Telephone: Telephone: rande Inc. Address: com Telephone: rande Inc. Telephone: com Telephone: rande Inc. Telephone: com Telephone: rande Inc. Telephone: com Telephone: olding time (HT), or if insufficient HT remains to complete shall ACZ proceed with requested short HT analyses? rinstruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses? points: Results will be reported to PQL for Colorado. Tall Sampler's Site Information State_CO "I attest to the authenticity and validity of this sample. Jun tampering with the sample in anyway, is condecred fraud to tall the requested analyses? NNCE 03/27/2019 Tall table So DATE:TIME Matrix Tall to the authenticity and validity of this sample. Jun tampering with the sample in anyway, is condecred fraud to tall the requested analyses? So DATE:TIME Matrix Tall to the authenticity and validity of this sample. Jun tampering with the sample in anyway, is condecred fraud to tall to t</td> <td>Address: 3372 Lime R .com Telephone: Telephone: Address: ande Inc. E-mail: Telephone: Telephone: ande Inc. Telephone: com Telephone: ande Inc. Telephone: com Telephone: ande Inc. Telephone: com Telephone: ander Inc. Telephone: com Telephone: ander Inc. Telephone: com Telephone: ander State Information State CO pliance Monitoring? Yes analyses, even if Indicated, AC2 will proceed with the requested analyses, even if analyses No forms. Results will be reported to PQL for Colorado. anal Sampler's Site Information State CO attest to the authenticity and validity of this sample. Lundenstand th tampering with the sample in anywy, is condered fraid and punishe NNCE 03/27/2019 Total atesting: Colorado NR Colorado NR Colorado</td> <td>Address: 3372 Lime Road, .com Telephone: (719)647-6861 E-mail: Telephone: (719)647-6861 Image: State Inc. Address: 3372 Lime Road, F Com Telephone: (719)647-6861 Image: State Inc. No X Image: State Information State CO X Image: Colorado Y Y Y Image: Colorado Y Y Y Image: Colorado Y Y Y Y Image: State Information X Image: State Information Y Y Image: State Information Y Y Y Y Y Image: State Inform</td> <td>Address: 3372 Lime Road, Pueble rande Inc. Telephone: Com E-mail: Telephone: Telephone: ande Inc. Address: Com Telephone: ande Inc. Telephone: Com Telephone: ande Inc. Telephone: Com Telephone: Telephone: (719)647-6861 olding time (HT), or if insufficient HT remains to complete shall ACZ proceed with requested short HT analyses? remarketon: No orms. Results will be reported to PQL for Colorado. Ian Sampler's Site Information State CO Zip code 81004 *1 attest to the adheriticity and validity of this ample. Understand theiterstronally middle Impedie with the adheriticity and validity of this ample. Understand theiterstand walidity of this ample. Understand theiterstand walidity of this ample. Understand theiterstand walidity of this ample. NCE 03/27/2019 grow grow grow Gilgiligi Go:qls GW SX Gilgiligi Go:qls GW SX Gilgiligi Go:qls GW SX Gilgiligi Go:qls GW SX</td> <td>Address: 3372 Lime Road, Pueblo, CC rande Inc. Telephone: Image: Common Strate Comm</td> <td>Address: 3372 Lime Road, Pueblo, CO 810 rande Inc. Telephone: .com E-mail: Telephone: Telephone: Address: 3372 Lime Road, Pueblo, CO 8100 rande Inc. Address: com E-mail: Telephone: YES Address: 3372 Lime Road, Pueblo, CO 8100 rande Inc. Telephone: com YES with Address: 3372 Lime Road, Pueblo, CO 8100 Telephone: YES ording time (HT), or if insufficient HT remains to complete YES with the represend analyse, own If HT is expleted, and data with equalited pliance Monitoring? Yes orms. Results will be reported to PQL for Colorado. Ian Sampler's Site Information Sate CO Zip code 81004 '' attact to the antheticity and widtly of this smpter. Understand that isteedontly mibble is the fast/locat MAVSISE REQUISIED (citch Int or Bis quote ontil base) NCE 03/27/2019 Yes Yes Yes Image: State Image: St</td>	rande Inc. Telephone: .com E-mail: Telephone: Telephone: .address: 3. rande Inc. Address: .com E-mail: Telephone: Telephone: .address: 3. .ande Inc. Telephone: .com Telephone: .oddress: 3. .ande Inc. Telephone: .com Telephone: .oddress: 3. .ande Inc. Telephone: .oddress: 3. .ande Inc. Telephone: .oddress: 3. .andress: 3. .andress:	Address: 3372 L rande Inc. Telephone: .com E-mail: Telephone: Telephone: rande Inc. Address: com Telephone: rande Inc. Telephone: com Telephone: rande Inc. Telephone: com Telephone: rande Inc. Telephone: com Telephone: olding time (HT), or if insufficient HT remains to complete shall ACZ proceed with requested short HT analyses? rinstruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses? points: Results will be reported to PQL for Colorado. Tall Sampler's Site Information State_CO "I attest to the authenticity and validity of this sample. Jun tampering with the sample in anyway, is condecred fraud to tall the requested analyses? NNCE 03/27/2019 Tall table So DATE:TIME Matrix Tall to the authenticity and validity of this sample. Jun tampering with the sample in anyway, is condecred fraud to tall the requested analyses? So DATE:TIME Matrix Tall to the authenticity and validity of this sample. Jun tampering with the sample in anyway, is condecred fraud to tall to t	Address: 3372 Lime R .com Telephone: Telephone: Address: ande Inc. E-mail: Telephone: Telephone: ande Inc. Telephone: com Telephone: ande Inc. Telephone: com Telephone: ande Inc. Telephone: com Telephone: ander Inc. Telephone: com Telephone: ander Inc. Telephone: com Telephone: ander State Information State CO pliance Monitoring? Yes analyses, even if Indicated, AC2 will proceed with the requested analyses, even if analyses No forms. Results will be reported to PQL for Colorado. anal Sampler's Site Information State CO attest to the authenticity and validity of this sample. Lundenstand th tampering with the sample in anywy, is condered fraid and punishe NNCE 03/27/2019 Total atesting: Colorado NR Colorado NR Colorado	Address: 3372 Lime Road, .com Telephone: (719)647-6861 E-mail: Telephone: (719)647-6861 Image: State Inc. Address: 3372 Lime Road, F Com Telephone: (719)647-6861 Image: State Inc. No X Image: State Information State CO X Image: Colorado Y Y Y Image: Colorado Y Y Y Image: Colorado Y Y Y Y Image: State Information X Image: State Information Y Y Image: State Information Y Y Y Y Y Image: State Inform	Address: 3372 Lime Road, Pueble rande Inc. Telephone: Com E-mail: Telephone: Telephone: ande Inc. Address: Com Telephone: ande Inc. Telephone: Com Telephone: ande Inc. Telephone: Com Telephone: Telephone: (719)647-6861 olding time (HT), or if insufficient HT remains to complete shall ACZ proceed with requested short HT analyses? remarketon: No orms. Results will be reported to PQL for Colorado. Ian Sampler's Site Information State CO Zip code 81004 *1 attest to the adheriticity and validity of this ample. Understand theiterstronally middle Impedie with the adheriticity and validity of this ample. Understand theiterstand walidity of this ample. Understand theiterstand walidity of this ample. Understand theiterstand walidity of this ample. NCE 03/27/2019 grow grow grow Gilgiligi Go:qls GW SX Gilgiligi Go:qls GW SX Gilgiligi Go:qls GW SX Gilgiligi Go:qls GW SX	Address: 3372 Lime Road, Pueblo, CC rande Inc. Telephone: Image: Common Strate Comm	Address: 3372 Lime Road, Pueblo, CO 810 rande Inc. Telephone: .com E-mail: Telephone: Telephone: Address: 3372 Lime Road, Pueblo, CO 8100 rande Inc. Address: com E-mail: Telephone: YES Address: 3372 Lime Road, Pueblo, CO 8100 rande Inc. Telephone: com YES with Address: 3372 Lime Road, Pueblo, CO 8100 Telephone: YES ording time (HT), or if insufficient HT remains to complete YES with the represend analyse, own If HT is expleted, and data with equalited pliance Monitoring? Yes orms. Results will be reported to PQL for Colorado. Ian Sampler's Site Information Sate CO Zip code 81004 '' attact to the antheticity and widtly of this smpter. Understand that isteedontly mibble is the fast/locat MAVSISE REQUISIED (citch Int or Bis quote ontil base) NCE 03/27/2019 Yes Yes Yes Image: State Image: St

Page 13 of 15

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

																_											
														-													
			-			-							-	•		_											
						÷			-		 •			٤.	- 4		-			-							
				-				-	-							κ.	r	a									
						-			-									_									
						-			-																		
						-	_									1.1	-		-								
												-															
														-													
													•	-			_										
									•								-										
													. 1														
										-				-			_										
									•																		

Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Page 1 of 2 3/27/2019

Quote Number: GW-COMPLIANCE

Matrix: Groundwater

Quarterly Groundwater Compliance Monitoring: 2019 4 samples Qtr.

Parameter	Method	Detection Limit	Cost/Sample
Metals Analysis			
Dissolved Metals by ICP			\$85.00
Aluminum, dissolved	M200.7 ICP	0.03 ma/L	\$0.00
Arsenic, dissolved	M200.7 ICP	0.04 ma/L	\$0.00
Beryllium, dissolved	M200.7 ICP	0.01 ma/L	\$0.00
Boron, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Cadmium, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Chromium, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Cobalt, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Copper, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Iron, dissolved	M200.7 ICP	0.02 mg/L	\$0.00
Lead, dissolved	M200.7 ICP	0.03 mg/L	\$0.00
Lithium, dissolved	M200.7 ICP	0.008 mg/L	\$0.00
Manganese, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Mercury, dissolved	M245.1 CVAA	0.0002 mg/L	\$22.00
Nickel, dissolved	M200.7 ICP	0.008 mg/L	\$0.00
Selenium, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$30.00
Vanadium, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Zinc, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Misc.			
Electronic Data Deliverable			\$0.00
Quality Control Summary			\$0.00
Wet Chemistry			
Fluoride	SM4500F-C	0.05 mg/L	\$11.00
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	Calculation	\$0.00
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Redu	0.02 mg/L	\$11.00
Nitrite as N, dissolved	M353.2 - Automated Cadmium Redu	0.01 mg/L	\$11.00
pH-(lab)	SM4500H+ B	0.1-G	
Residue, Filterable (TDS) @180C	SM2540C	10 mg/L	\$14.00
		Cost/Sample:	\$184.00

This quote is based on a Standard Turn Around Time (TAT) of approximately 14 days (10 business days). TAT may vary with seasonal heavy workload. Please contact your PM if rush TAT is required. Rush TAT must 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 Invoice Charge. Please note that method detection limits are estimates and may be elevated depending on sample matrix that require dilution. Pricing includes coolers, bottles pre-preserved as needed, labels, COCs and ice-packs 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.

REPAD.09.06.05.01


Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004 Page 2 of 2 3/27/2019

Quote Number: GW-COMPLIANCE

CONTRACT DETAILS

Pricing includes coolers, bottles pre-preserved as needed, labels, COCs and ice-packs shipped to your site or office via UPS ground. Return shipping is the responsibility of the client. 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 requirements. 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)

REPAD.09.06.05.01

December 27, 2019

Report to: Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004 Bill to: Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Project ID: ACZ Project ID: L56347

Diana Furman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 10, 2019. This project has been assigned to ACZ s project number, L56347. 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 L56347. 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 is 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 January 26, 2020. 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 ACZs 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.

Chi

Bill Lane has reviewed and approved this report





L56347-1912271234

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

Inorganic Analytical Results

GCC Rio Gran	de	ACZ Sample ID:	L56347-01
Project ID:		Date Sampled:	11/09/19 14:15
Sample ID:	MW-6	Date Received:	12/10/19
		Sample Matrix:	Groundwater

Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5		U		mg/L	0.3	1	12/13/19 13:01	kja
Arsenic, dissolved	M200.8 ICP-MS	5		U		mg/L	0.001	0.005	12/17/19 14:18	mfm
Beryllium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:01	kja
Boron, dissolved	M200.7 ICP	5	0.3	В		mg/L	0.1	0.5	12/13/19 13:01	kja
Cadmium, dissolved	M200.8 ICP-MS	5		U		mg/L	0.0003	0.001	12/17/19 14:18	mfm
Chromium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:01	kja
Cobalt, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:01	kja
Copper, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:01	kja
Iron, dissolved	M200.7 ICP	5		U		mg/L	0.2	0.4	12/13/19 13:01	kja
Lead, dissolved	M200.8 ICP-MS	5		U		mg/L	0.0005	0.003	12/17/19 14:18	mfm
Lithium, dissolved	M200.7 ICP	5	0.49			mg/L	0.04	0.2	12/13/19 13:01	kja
Manganese, dissolved	M200.7 ICP	5	0.49			mg/L	0.05	0.3	12/13/19 13:01	kja
Mercury, dissolved	M245.1 CVAA	1		UH	*	mg/L	0.0002	0.001	12/11/19 16:20	slm
Nickel, dissolved	M200.7 ICP	5	0.11	В		mg/L	0.04	0.2	12/13/19 13:01	kja
Selenium, dissolved	M200.8 ICP-MS	5	0.088			mg/L	0.0005	0.001	12/17/19 14:18	mfm
Vanadium, dissolved	M200.7 ICP	5		U		mg/L	0.03	0.1	12/13/19 13:01	kja
Zinc, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:01	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.8	н	*	mg/L	0.1	0.4	12/11/19 18:40	emk
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		8.10	н		mg/L	0.08	0.4	12/27/19 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	4	8.12	Н	*	mg/L	0.08	0.4	12/10/19 23:02	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.02	BH	*	mg/L	0.01	0.05	12/10/19 22:55	pjb
pH (lab)	SM4500H+ B									
pН		1	8.1	н	*	units	0.1	0.1	12/11/19 0:00	nmc
pH measured at		1	24.8			С	0.1	0.1	12/11/19 0:00	nmc
Residue, Filterable (TDS) @180C	SM2540C	5	5460	Н	*	mg/L	100	200	12/19/19 11:27	jck

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

Inorganic Analytical Results

GCC Rio Gran	de	ACZ Sample ID:	L56347-02
Project ID:		Date Sampled:	11/09/19 12:47
Sample ID:	MW-7	Date Received:	12/10/19
		Sample Matrix:	Groundwater

Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5		U		mg/L	0.3	1	12/13/19 13:04	kja
Arsenic, dissolved	M200.8 ICP-MS	5		U		mg/L	0.001	0.005	12/17/19 14:20	mfm
Beryllium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:04	kja
Boron, dissolved	M200.7 ICP	5	0.2	В		mg/L	0.1	0.5	12/13/19 13:04	kja
Cadmium, dissolved	M200.8 ICP-MS	5		U		mg/L	0.0003	0.001	12/17/19 14:20	mfm
Chromium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:04	kja
Cobalt, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:04	kja
Copper, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:04	kja
Iron, dissolved	M200.7 ICP	5		U		mg/L	0.2	0.4	12/13/19 13:04	kja
Lead, dissolved	M200.8 ICP-MS	5		U		mg/L	0.0005	0.003	12/17/19 14:20	mfm
Lithium, dissolved	M200.7 ICP	5	0.44			mg/L	0.04	0.2	12/13/19 13:04	kja
Manganese, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:04	kja
Mercury, dissolved	M245.1 CVAA	1		UH	*	mg/L	0.0002	0.001	12/11/19 16:21	slm
Nickel, dissolved	M200.7 ICP	5		U		mg/L	0.04	0.2	12/13/19 13:04	kja
Selenium, dissolved	M200.8 ICP-MS	5	0.0903			mg/L	0.0005	0.001	12/17/19 14:20	mfm
Vanadium, dissolved	M200.7 ICP	5		U		mg/L	0.03	0.1	12/13/19 13:04	kja
Zinc, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:04	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.5	Н	*	mg/L	0.1	0.4	12/11/19 18:45	emk
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		14	Н		mg/L	0.1	0.5	12/27/19 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	5	14.3	Н	*	mg/L	0.1	0.5	12/10/19 23:07	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.08	Н	*	mg/L	0.01	0.05	12/10/19 22:56	pjb
pH (lab)	SM4500H+ B									
рН		1	8.1	н		units	0.1	0.1	12/11/19 0:00	nmc
pH measured at		1	24.7			С	0.1	0.1	12/11/19 0:00	nmc
Residue, Filterable (TDS) @180C	SM2540C	5	5320	н	*	mg/L	100	200	12/19/19 11:30	jck

* Please refer to Qualifier Reports for details.

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

Inorganic Analytical Results

GCC Rio Gran	ıde	ACZ Sample ID:	L56347-03
Project ID:		Date Sampled:	11/09/19 12:47
Sample ID:	MW-2B	Date Received:	12/10/19
		Sample Matrix:	Groundwater

Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5		U		mg/L	0.3	1	12/13/19 13:07	kja
Arsenic, dissolved	M200.8 ICP-MS	5		U		mg/L	0.001	0.005	12/17/19 14:25	mfm
Beryllium, dissol∨ed	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:07	kja
Boron, dissolved	M200.7 ICP	5	0.2	В		mg/L	0.1	0.5	12/13/19 13:07	kja
Cadmium, dissolved	M200.8 ICP-MS	5		U		mg/L	0.0003	0.001	12/17/19 14:25	mfm
Chromium, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:07	kja
Cobalt, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:07	kja
Copper, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:07	kja
Iron, dissolved	M200.7 ICP	5		U		mg/L	0.2	0.4	12/13/19 13:07	kja
Lead, dissolved	M200.8 ICP-MS	5		U		mg/L	0.0005	0.003	12/17/19 14:25	mfm
Lithium, dissolved	M200.7 ICP	5	0.44			mg/L	0.04	0.2	12/13/19 13:07	kja
Manganese, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:07	kja
Mercury, dissolved	M245.1 CVAA	1		UH	*	mg/L	0.0002	0.001	12/11/19 16:22	slm
Nickel, dissolved	M200.7 ICP	5		U		mg/L	0.04	0.2	12/13/19 13:07	kja
Selenium, dissolved	M200.8 ICP-MS	5	0.0903			mg/L	0.0005	0.001	12/17/19 14:25	mfm
Vanadium, dissolved	M200.7 ICP	5		U		mg/L	0.03	0.1	12/13/19 13:07	kja
Zinc, dissolved	M200.7 ICP	5		U		mg/L	0.05	0.3	12/13/19 13:07	kja
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Fluoride	SM4500F-C	1	0.5	н	*	mg/L	0.1	0.4	12/11/19 18:49	emk
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		15	н		mg/L	0.1	0.5	12/27/19 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	5	14.7	Н	*	mg/L	0.1	0.5	12/10/19 23:04	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.08	Н	*	mg/L	0.01	0.05	12/10/19 22:57	pjb
pH (lab)	SM4500H+ B									
pН		1	8.1	н		units	0.1	0.1	12/11/19 0:00	nmc
pH measured at		1	24.5			С	0.1	0.1	12/11/19 0:00	nmc
Residue, Filterable (TDS) @180C	SM2540C	2	5510	Н	*	mg/L	40	80	12/16/19 13:28	mlh



ľ

Inorganic Reference

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

Laboratory Control Sample - Water

Report Header	• Explanations						
Batch	A distinct set of samples analyzed at a specific time						
Found	Value of the QC Type of interest						
Limit	Upper limit for RPD, in %.						
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)						
MDL	Method Detection Limit. Same as Minimum Reporting Limit u	nless omitted or ea	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 mar	ufacturer is certifica	ate of analysis				
PQL	Practical Quantitation Limit. Synonymous with the EPA term	"minimum le∨el".					
QC	True Value of the Control Sample or the amount added to the	Spike					
Rec	Recovered amount of the true value or spike added, in % (ex	cept for LCSS, mg	/Kg)				
RPD	Relative Percent Difference, calculation used for Duplicate QC	C Types					
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)						
Sample	Value of the Sample of interest						
OC Sample Tu	nae						
AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate				
ASD	Analytical Spike (Post Digestion) Duplicate	LEB	Laboratory Fortified Blank				
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix				
CCV	Continuing Calibration Verification standard	LEMD	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				

QC Sample Type Explanations Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure. Control Samples Verifies the accuracy of the method, including the prep procedure. Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any. Standard Verifies the validity of the calibration.

SDL

Serial Dilution

ACZ Qualifiers (Qual)

LCSW

в	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
н	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value.
	The associated value is either the sample quantitation limit or the sample detection limit.
Method Re	ferences
(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.

- (4)
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

 QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calcula Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis. Animal matrices for Inorganic analyses are reported on an "as received" basis. An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit. 		
 Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis. Animal matrices for Inorganic analyses are reported on an "as received" basis. An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit. 	(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
 Animal matrices for Inorganic analyses are reported on an "as received" basis. An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit. 	(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
 (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit. 	(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
associated with the result. (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.	(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.		associated with the result.
	(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZIS Extended Qualifiers, please click:

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

Page 5 of 17



2773 Downhill Drive

GCC Rio Grande

ACZ Project ID: L56347

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Aluminum, diss	olved		M200.7 IC	P									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	II191210-1	2		1.972	mg/L	99	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.15	0.15			
WG488068LFB	LFB	12/13/19 12:06	ll191204-3	1.0012		.993	mg/L	99	85	115			
L56307-11AS	AS	12/13/19 12:55	II191204-3	1.0012	U	1.081	mg/L	108	85	115			
L56307-11ASD	ASD	12/13/19 12:58	1191204-3	1.0012	U	1.048	mg/L	105	85	115	3	20	
Arsenic, dissolv	/ed		M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488318													
WG488318ICV	ICV	12/17/19 13:38	MS191014-8	.05		.04929	mg/L	99	90	110			
WG488318ICB	ICB	12/17/19 13:40				U	mg/L		-0.00044	0.00044			
WG488318LFB	LFB	12/17/19 13:42	MS191119-5	.05005		.04957	mg/L	99	85	115			
L56358-01AS	AS	12/17/19 14:29	MS191119-5	.05005	U	.05358	mg/L	107	70	130			
L56358-01ASD	ASD	12/17/19 14:31	MS191119-5	.05005	U	.0577	mg/L	115	70	130	7	20	
Beryllium, disso	olved		M200.7 IC	P									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	1191210-1	2		1.949	mg/L	97	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.03	0.03			
WG488068LFB	LFB	12/13/19 12:06	1191204-3	.5005		.5	mg/L	100	85	115			
L56307-11AS	AS	12/13/19 12:55	1191204-3	.5005	U	.52	mg/L	104	85	115			
L56307-11ASD	ASD	12/13/19 12:58	II191204-3	.5005	U	.504	mg/L	101	85	115	3	20	
Boron. dissolve	d		M200.7 IC	P									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
	ICV	12/13/10 11:47	11101210.1	2		1 00	ma/l	100	95	105			
WG488068IC8	ICR	12/13/19 11:47	1131210-1	2		1.55	ma/l	100	-0.06	0.06			
WG4880681 FB	I FB	12/13/19 12:06	1191204-3	5005		517	ma/l	103	-0.00	115			
156307-1145	AS	12/13/19 12:55	1191204-3	5005	03	575	ma/l	100	85	115			
L56307-11ASD	ASD	12/13/19 12:58	II191204-3	.5005	.03	.552	mg/L	104	85	115	4	20	
Cadmium diss	hove		M200.8.IC	D_MS									
	Type	Analyzed	PCN/SCN	00	Sample	Found	Unite	Dec%	Lower	Unner	PPD	Limit	Qual
	турс	Analyzeu	FONISCIA	wC	Gample	round	Units	NCC /0	Lower	opper	RFD	Ennic	acuai
WG488318													
VVG488318ICV	ICV	12/1//19 13:38	MS191014-8	.05		.048453	mg/L	97	90	110			
WG488318ICB	ICB	12/17/19 13:40				U	mg/∟		-0.00011	0.00011			
VVG488318LFB	LFB	12/17/19 13:42	MS191119-5	.05005		.049344	mg/L	99	85	115			
L56358-01AS	AS	12/17/19 14:29	MS191119-5	.05005	U 	.052973	mg/L	106	70	130			
L56358-01ASD	ASD	12/17/19 14:31	MS191119-5	.05005	U	.054658	mg/L	109	70	130	3	20	



Inorganic QC Summary

2773 Downhill Drive

GCC Rio Grande

ACZ Project ID: L56347

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, disso	olved		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	1191210-1	2		1.957	mg/L	98	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.03	0.03			
WG488068LFB	LFB	12/13/19 12:06	ll191204-3	.501		.497	mg/L	99	85	115			
L56307-11AS	AS	12/13/19 12:55	1191204-3	.501	U	.526	mg/L	105	85	115			
L56307-11ASD	ASD	12/13/19 12:58	1191204-3	.501	U	.501	mg/L	100	85	115	5	20	
Cobalt, dissolve	d		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	1191210-1	2.002		1.961	mg/L	98	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.03	0.03			
WG488068LFB	LFB	12/13/19 12:06	1191204-3	.5		.511	mg/L	102	85	115			
L56307-11AS	AS	12/13/19 12:55	ll191204-3	.5	U	.532	mg/L	106	85	115			
L56307-11ASD	ASD	12/13/19 12:58	1191204-3	.5	U	.498	mg/L	100	85	115	7	20	
Copper, dissolve	ed		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	1191210-1	2		1.911	mg/L	96	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.03	0.03			
WG488068LFB	LFB	12/13/19 12:06	ll191204-3	.5005		.488	mg/L	98	85	115			
L56307-11AS	AS	12/13/19 12:55	ll191204-3	.5005	U	.521	mg/L	104	85	115			
L56307-11ASD	ASD	12/13/19 12:58	1191204-3	.5005	U	.501	mg/L	100	85	115	4	20	
Fluoride			SM4500F	-C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG487911													
WG487911ICV	ICV	12/11/19 14:56	WC191204-2	2.004		2.06	mg/L	103	90	110			
WG487911ICB	ICB	12/11/19 15:02				U	mg/L		-0.3	0.3			
WG487911LFB1	LFB	12/11/19 15:09	WC191014-1	5.01		4.82	mg/L	96	90	110			
WG487911LFB2	LFB	12/11/19 17:43	WC191014-1	5.01		4.95	mg/L	99	90	110			
L56266-01AS	AS	12/11/19 18:07	WC191014-1	5.01	.2	5.12	mg/L	98	90	110			
L56266-01ASD	ASD	12/11/19 18:13	WC191014-1	5.01	.2	5.17	mg/L	99	90	110	1	20	
Iron, dissolved			M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	II191210-1	2		1.933	mg/L	97	95	105			
WG488068ICB	ICB	12/13/19 11:53		-		U	mg/L	2.	-0.09	0.09			
WG488068LFB	LFB	12/13/19 12:06	II191204-3	1.0018		.999	- mg/L	100	85	115			
L56307-11AS	AS	12/13/19 12:55	II191204-3	1.0018	1.66	2.684	mg/L	102	85	115			
L56307-11ASD	ASD	12/13/19 12:58	191204-3	1 0018	1 66	2 615	ma/L	95	85	115	3	20	



Inorganic QC Summary

GCC Rio Grande

ACZ Project ID: L56347

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, dissolved			M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488318													
WG488318ICV	ICV	12/17/19 13:38	MS191014-8	.05		.05001	mg/L	100	90	110			
WG488318ICB	ICB	12/17/19 13:40				U	mg/L		-0.00022	0.00022			
WG488318LFB	LFB	12/17/19 13:42	MS191119-5	.05005		.04978	mg/L	99	85	115			
L56358-01AS	AS	12/17/19 14:29	MS191119-5	.05005	U	.05187	mg/L	104	70	130			
L56358-01ASD	ASD	12/17/19 14:31	MS191119-5	.05005	U	.05323	mg/L	106	70	130	3	20	
Lithium, dissolve	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	II191210-1	2		2.0102	mg/L	101	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.024	0.024			
WG488068LFB	LFB	12/13/19 12:06	II191204-3	1.002		.9998	mg/L	100	85	115			
L56307-11AS	AS	12/13/19 12:55	II191204-3	1.002	.037	1.116	mg/L	108	85	115			
L56307-11ASD	ASD	12/13/19 12:58	II191204-3	1.002	.037	1.055	mg/L	102	85	115	6	20	
Manganese, diss	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
MC488068ICV		10/12/10 11:47	1101210-1	2		1 025	mail	07	05	105			
		12/13/19 11.47	11191210-1	2		1.935	mg/L	97	90	0.03			
MG48800810B	I ER	12/13/19 12:06	1191204-3	5015		198	ma/l	99	-0.05	115			
156307-114S		12/13/19 12:55	II191204-3	5015	02	548	ma/l	105	85	115			
L56307-11ASD	ASD	12/13/19 12:58	II191204-3	.5015	.02	.532	mg/L	102	85	115	3	20	
Moroupy dissolu	vad		M245.1.0										
	Timo	Apolygod	BCN/SCN	00	Sampla	Found	Unito	Pac ⁹	Lowor	Uppor	PPD	Limit	Qual
NC497925	туре	Anaryzeu	PONJON	40	Sample	round	Units	Rec /0	Lower	opper	KFU	Emm	auai
W0407025		10/11/10/11/10	110 404 044 0	004005		00400		100	05	405			
WG487825ICV		12/11/19 14:49	HG191211-3	.004995		.00498	mg/L	100	95	105			
WG487825ICB	ICB	12/11/19 14:50				U	III Y/L		-0.0002	0.0002			
WG487824													
WG487824LRB	LRB	12/11/19 15:37				U	mg/L		-0.00044	0.00044			
WG487824LFB	LFB	12/11/19 15:38	HG191206-3	.002002		.00202	mg/L	101	85	115			
L56307-07LFM	LFM	12/11/19 15:53	HG191206-3	.002002	U	.00189	mg/L	94	85	115			
L56307-07LFMD	LFMD	12/11/19 15:54	HG191206-3	.002002	U	.00189	mg/L	94	85	115	0	20	
Nickel, dissolved	1		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	II191210-1	2		1.9508	mg/L	98	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.024	0.024			
WG488068LFB	LFB	12/13/19 12:06	II191204-3	.501		.4976	mg/L	99	85	115			
L56307-11AS	AS	12/13/19 12:55	II191204-3	.501	U	.5129	mg/L	102	85	115			
L56307-11ASD	ASD	12/13/19 12:58	II191204-3	.501	U	.4999	mg/L	100	85	115	3	20	



Inorganic QC Summary

GCC Rio Grande

ACZ Project ID: L56347

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrate/Nitrite as	olved	M353.2 - A	Automate	d Cadmiun	n Reduc	tion							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG487853													
WG487853ICV	ICV	12/10/19 22:36	WI191112-1	2.416		2.411	mg/L	100	90	110			
WG487853ICB	ICB	12/10/19 22:37				U	mg/L		-0.02	0.02			
WG487853LFB	LFB	12/10/19 22:41	VVI191004-3	2		2.041	mg/L	102	90	110			
L56240-01AS	AS	12/10/19 22:43	VVI191004-3	2	U	1.997	mg/L	100	90	110			
L56319-01DUP	DUP	12/10/19 22:46			U	U	mg/L				0	20	RA
Nitrite as N, diss	olved		M353.2 - A	Automate	d Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG487853													
WG487853ICV	ICV	12/10/19 22:36	WI191112-1	.609		.586	mg/L	96	90	110			
WG487853ICB	ICB	12/10/19 22:37				U	mg/L		-0.01	0.01			
WG487853LFB	LFB	12/10/19 22:41	VVI191004-3	1		1.01	mg/L	101	90	110			
L56240-01AS	AS	12/10/19 22:43	W1191004-3	1	U	.973	mg/L	97	90	110			
L56319-01DUP	DUP	12/10/19 22:46			U	U	mg/L				0	20	RA
pH (lab)			SM4500H	+ B									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG487844													
WG487844LCSW1	LCSW	12/10/19 17:32	PCN58053	6		6	units	100	5.9	6.1			
WG487844LCSW4	LCSW	12/10/19 21:44	PCN58053	6		6.1	units	102	5.9	6.1			
WG487844LCSW7	LCSW	12/11/19 1:34	PCN58053	6		6.1	units	102	5.9	6.1			
WG487844LCSW10	LCSW	12/11/19 5:25	PCN58053	6		6.1	units	102	5.9	6.1			
L56347-03DUP	DUP	12/11/19 7:30			8.1	8.1	units				0	20	
WG487844LCSW13	LCSW	12/11/19 9:04	PCN58053	6		6.1	units	102	5.9	6.1			
Residue, Filterab	le (TDS	i) @180C	SM2540C										
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488214													
WG488214PBW	PBW	12/16/19 12:59				U	mg/L		-40	40			
WG488214LCSW	LCSW	12/16/19 13:01	PCN59814	1000		992	mg/L	99	80	120			
L56405-01DUP	DUP	12/16/19 13:34			1390	1380	mg/L				1	10	
WG488533													
WG488533PBW	PBW	12/19/19 11:20				U	mg/L		-40	40			
WG488533LCSW	LCSW	12/19/19 11:22	PCN59813	1000		996	mg/L	100	80	120			
L56499-34DUP	DUP	12/19/19 11:54			206	204	mg/L				1	10	
Selenium, dissol	ved		M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488318													
WG488318ICV	ICV	12/17/19 13:38	MS191014-8	.05		.04952	mg/L	99	90	110			
WG488318ICB	ICB	12/17/19 13:40				U	mg/L		-0.00022	0.00022			
WG488318LFB	LFB	12/17/19 13:42	MS191119-5	.05005		.05126	mg/L	102	85	115			
L56358-01AS	AS	12/17/19 14:29	MS191119-5	.05005	.0002	.05464	mg/L	109	70	130			
L56358-01ASD	ASD	12/17/19 14:31	MS191119-5	.05005	.0002	.05772	mg/L	115	70	130	5	20	



GCC Rio Grande

ACZ Project ID: L56347

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

vanaulum, uisso	olved		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG488068													
WG488068ICV	ICV	12/13/19 11:47	II191210-1	2		1.964	mg/L	98	95	105			
WG488068ICB	ICB	12/13/19 11:53				U	mg/L		-0.015	0.015			
WG488068LFB	LFB	12/13/19 12:06	II191204-3	.4995		.4964	mg/L	99	85	115			
L56307-11AS	AS	12/13/19 12:55	II191204-3	.4995	U	.5211	mg/L	104	85	115			
L56307-11ASD	ASD	12/13/19 12:58	II191204-3	.4995	U	.5062	mg/L	101	85	115	3	20	
7 1			M200.7.1										
zinc, aissoivea			WIZ00.7 1	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
ACZ ID WG488068	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
ACZ ID WG488068 WG488068ICV	Туре	Analyzed 12/13/19 11:47	III191210-1	QC QC 2	Sample	Found 1.961	Units mg/L	Rec% 98	Lower 95	Upper 105	RPD	Limit	Qual
Acz ID WG488068 WG488068ICV WG488068ICB	Type ICV ICB	Analyzed 12/13/19 11:47 12/13/19 11:53	PCN/SCN	QC 2	Sample	Found 1.961 U	Units mg/L mg/L	Rec% 98	Lower 95 -0.03	Upper 105 0.03	RPD	Limit	Qual
AC2 ID WG488068 WG488068ICV WG488068ICV WG488068ICB WG488068LFB	Type ICV ICB LFB	Analyzed 12/13/19 11:47 12/13/19 11:53 12/13/19 12:06	III200.7 T PCN/SCN III91210-1 III91204-3	2 .50075	Sample	Found 1.961 U .544	Units mg/L mg/L mg/L	Rec% 98 109	Lower 95 -0.03 85	Upper 105 0.03 115	RPD	Limit	Qual
AC2 ID WG488068 WG488068ICV WG488068ICV WG488068ICB WG488068LFB L56307-11AS	Type ICV ICB LFB AS	Analyzed 12/13/19 11:47 12/13/19 11:53 12/13/19 12:06 12/13/19 12:55	III91200-7 III9100-7 III9100-7 III9100-7 III9100-7 III9	QC 2 .50075 .50075	Sample	Found 1.961 U .544 .666	Units mg/L mg/L mg/L mg/L	Rec% 98 109 107	Lower 95 -0.03 85 85	Upper 105 0.03 115 115	RPD	Limit	Qual

AGZZ Laboratories, Inc. 773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

2773 Downhill Drive

Inorganic Extended Qualifier Report

GCC Rio Grande

ACZ Project ID: L56347

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	
L56347-01	NG487911	Fluoride	SM4500F-C	H3	Sample was received and analyzed past holding time.
	WG487824	Mercury, dissolved	M245.1 CVAA	H3	Sample was received and analyzed past holding time.
	WG487853	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			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, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
			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).
	WG487844	рН	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG488533	Residue, Filterable (TDS) @180C	SM2540C	НЗ	Sample was received and analyzed past holding time.
L56347-02	WG487911	Fluoride	SM4500F-C	H3	Sample was received and analyzed past holding time.
	WG487824	Mercury, dissolved	M245.1 CVAA	H3	Sample was received and analyzed past holding time.
	WG487853	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			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, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
			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).
	WG488533	Residue, Filterable (TDS) @180C	SM2540C	НЗ	Sample was received and analyzed past holding time.
L56347-03	WG487911	Fluoride	SM4500F-C	НЗ	Sample was received and analyzed past holding time.
	WG487824	Mercury, dissolved	M245.1 CVAA	H3	Sample was received and analyzed past holding time.
	WG487853	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			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, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
			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).
	WG488214	Residue, Filterable (TDS) @180C	SM2540C	НЗ	Sample was received and analyzed past holding time.



GCC Rio Grande

Certification Qualifiers

ACZ Project ID: L56347

No certification qualifiers associated with this analysis

2773 Downhill Drive Steamboat S	atories, atories, co 80	Inc. 487 (800) 334-5493		- 1	Sa Re	ample eceipt	
GCC Rio Grande				ACZ Proje Date Rec Receive	ect ID: eived: 12 ed By:	2/10/201	L56347 9 12:33
				Date P	rinted:	12/	12/2019
Receipt Verification							
					YES	NO	NA
1) Is a foreign soil permit inclu	ided for appli	cable samples?					X
2) Is the Chain of Custody for	m or other dir	ective shipping pap	ers present?		X		
3) Does this project require sp		Х					
4) Are any samples NRC licer			Х				
5) If samples are received pas	Х						
6) Is the Chain of Custody for	Х						
7) Were any changes made to		Х					
Samples/Containers							
					YES	NO	NA
8) Are all containers intact and	d with no leak	s?			Х		
9) Are all labels on containers	and are they	intact and legible?			Х		
10) Do the sample labels and	Chain of Cus	tody form match fo	r Sample ID, Dat	e, and Time?	Х		
11) For preserved bottle types	s, was the pH	checked and within	ı limits? ¹		X		
12) Is there sufficient sample	volume to per	form all requested	work?		X		
13) Is the custody seal intact of	on all contain	ers?					Х
14) Are samples that require a	zero headspa	ce acceptable?					X
15) Are all sample containers	appropriate f	or analytical require	ments?		X		
16) Is there an Hg-1631 trip b	lank present?						X
17) Is there a VOA trip blank	oresent?						X
18) Were all samples receive	d within hold t	ime?					
					NA indica	tes Not Ap	plicable
Chain of Custody Related Re	emarks						
Client Contact Remarks							
Shipping Containers							
Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?			
4556	1.3	<=6.0	 15	Yes			
Was ice present in the shipm Yes - Wet ice was p Client must c	nent container resent in contact an ACZ	(s)? the shipment c Project Manager if an	ontainer(s). alysis should not p	proceed for samples	received		

outside of their thermal preservation acceptance criteria.

AGZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800)) <i>334-5493</i> F	Sample Receipt
GCC Rio Grande	ACZ Project ID:	L56347
	Date Received:	12/10/2019 12:33
	Received By:	
	Date Printed:	12/12/2019
¹ The preservation of the following bot	tle types is not checked at sample receipt: Orange (oil and	

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), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

me: Diana Furman mpany: GCC Rio Grande Inc. nail: dfurman@gcc.com									_		
mpany: GCC Rio Grande Inc. nail: dfurman@gcc.com			Addres	ss: 33	372 Li	me R	oad, F	Pueblo	o, CO	8100)4
nail: dfurman@gcc.com											
py of Report to:			Telepl	none: ((719)6	\$47-68	861				
											ليري
me:			E-mail	:							
mpany:			Telept	none:							
me: Diana Furman			Addre	ss: 33	72 Lir	ne Ro	bad. P	ueblo	, CO	8100	4
mpany: GCC Rio Grande Inc.								_			
nail: dfurman@gcc.com			Telept	none:	(719)6	547-6	861				
ample(s) received past holding time (HT), or	if insufficient	HT rer	nains t	o comp	lete				YES	×	
alysis before expiration, shall ACZ proceed v	with requested	d short	HT ana	IYSES?	sted analys	es, even if l	IT is expire	d, and data	NO will be qual	lified	
samples for SDWA Compliance Monitoring	?	.,	Yes			No	×				
es, please include state forms. Results will i	be reported to	PQL fo	or Colo	rado.							
mpler's Name: <u>Scoll he s</u> Sampler's	Site Informat	ion	State_	CO		Zip coo	de <u>81(</u>)04 (ly mislabel)	Time Z	one_M	
ampler's Signature:	*I attest to th tampering wi	ne authentic ith the samp	ncy and vali ple in anywa	nty of this si ry, is conside	red fraud a	nd punishab	le by State I		sie unie,	-microlati	
OJECT INFORMATION				ANAL	YSES RE	QUESTED) (attach i	ist or use	quote nur	nber)	
ote #: GW-COMPLIANCE 03/27/20	19		lers	prt							
#: N/A			Itain	quote							
porting state for compliance testing: Colorac		Press of	Col I	sched							
eck box if samples include NRC licensed mater	rial?		‡ of	eratta >pH							
		C)A/	2		1 1					П	П
	17.15	GW	3				H				H
MW-2R ulalia	12:42	GW	3	X							
	· / F	<u> </u>	Ť								
Matrix SW (Surface Water) - GW (Ground Water)	· WW (Waste W	/ater) · D	W (Drink	ing Wate	r) · SL (S	Sludge) ·	SO (Soil) · OL (O	il) · Othe	r (Specify	()
EMARKS											
Field C that a partie		2.0			_	L.f. A. 34	(7 、	L (1)	hile		
nera finanon paton	nearon	205	50	ottic	S	are	in.		do	+	
						J. v	dot				
Please refer to ACZ's f	terms & cond	itions l	ocated	on the	revers	e side	of this	coc.			
RELINQUISHED BY:	DATE:TI	ME			RECEI	VED B	Y:		D	ATE:TI	МE
A and I a	Nalie	ITAL	DE	um	an				nh	9/19	15:
DEuman	12 log li	<u>10</u> 9	1	UPS	#4	871	i				
		+-7	N)7	$\frac{1}{1}$	<u>"</u> 5'	ದ	Int	19	L N	.25	3

L56347-1912271234

Chain of

Custod

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

CONTRACTOR OF TAXABLE PARTY OF TAXABLE PARTY.		No. of Concession, Name	
and the second se			
Contraction of the local division of the loc	And the second se	Contraction of the second	
Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	Concerning of the second se	all a state of the second	

Second States and States and			
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a frank a start of the start of		
		5	
		100 100	
	and the second second second	the second second second	

Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004 Page 1 of 2 3/27/2019

Quote Number: GW-COMPLIANCE

Matrix: Groundwater

Quarterly Groundwater Compliance Monitoring: 2019 4 samples Qtr.

Parameter	Method	Detection Limit	Cost/Sample
Metals Analysis			
Dissolved Metals by ICP			\$85.00
Aluminum, dissolved	M200.7 ICP	0.03 mg/L	\$0.00
Arsenic, dissolved	M200.7 ICP	0.04 mg/L	\$0.00
Beryllium, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Boron, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Cadmium, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Chromium, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Cobalt, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Copper, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Iron, dissolved	M200.7 ICP	0.02 mg/L	\$0.00
Lead, dissolved	M200.7 ICP	0.03 mg/L	\$0.00
Lithium, dissolved	M200.7 ICP	0.008 mg/L	\$0.00
Manganese, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Mercury, dissolved	M245.1 CVAA	0.0002 mg/L	\$22.00
Nickel, dissolved	M200.7 ICP	0.008 mg/L	\$0.00
Selenium, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$30.00
Vanadium, dissolved	M200.7 ICP	0.005 mg/L	\$0.00
Zinc, dissolved	M200.7 ICP	0.01 mg/L	\$0.00
Misc.			
Electronic Data Deliverable			\$0.00
Quality Control Summary			\$0.00
Wet Chemistry			
Fluoride	SM4500F-C	0.05 mg/L	\$11.00
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	Calculation	\$0.00
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Redu	0.02 mg/L	\$11.00
Nitrite as N, dissolved	M353.2 - Automated Cadmium Redu	0.01 mg/L	\$11.00
pH (lab)	SM4500H+ B	0.1-6	\$0.00
Residue, Filterable (TDS) @180C	SM2540C	10 mg/L	\$14.00
		Cost/Sample:	\$184.00

This quote is based on a Standard Turn Around Time (TAT) of approximately 14 days (10 business days). TAT may vary with seasonal heavy workload. Please contact your PM if rush TAT is required. Rush TAT must 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 Invoice Charge. Please note that method detection limits are estimates and may be elevated depending on sample matrix that require dilution. Pricing includes coolers, bottles pre-preserved as needed, labels, COCs and ice-packs 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.

REPAD.09.06.05.01

S/ tjv D/ ## P/

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



Diana Furman GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Page 2 of 2 3/27/2019

Quote Number: GW-COMPLIANCE

CONTRACT DETAILS

Pricing includes coolers, bottles pre-preserved as needed, labels, COCs and ice-packs shipped to your site or office via UPS ground. Return shipping is the responsibility of the client. 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 requirements. 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)

REPAD.09.06.05.01

L56347-1912271234

D	l	47	2040
Decem	per	17,	2019

GCC Pueblo)		December 17, 2019
David Bemis	5		
3372 Lime R	load		
Pueblo	со	81004	

Project Name - Groundwater Monitoring

ORY. INC

Project Number - [none]

Attached are your analytical results for Groundwater Monitoring received by Origins Laboratory, Inc. December 10, 2019. This project is associated with Origins project number Y912138-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data gualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc. 303.433.1322 o-squad@oelabinc.com

ORIGI



GCC Pueblo

3372 Lime Road

Pueblo (

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
MW-6	Y912138-01	Water	December 9, 2019 14:15	12/10/2019 09:05	
MW-7	Y912138-02	Water	December 9, 2019 12:47	12/10/2019 09:05	

Origins Laboratory, Inc.

e Pellepi

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 2 of 19

GCC Pueblo

3372 Lime Road

Pueblo

81004

CO

David Bemis Project Number: [none] Project: Groundwater Monitoring



Origins Laboratory, Inc.

Jefe Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 3 of 19

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Origins Laboratory				F-012207-01-R1
Sample Rece	ipt Che	cklist		Effective Date: 01/00/12
Origins Work Order: <u>4912138</u>	Clie	nt: <u>60</u> nt Project	10: <u>61</u>	w Monitoring
Checklist Completed by: JP	Ship	oped Via: (UPS,	H FedEx, Ha	nd Delivered, Pick-up, etc.)
Date/time completed: 12 10 19	Airb	oill #:		
Matrix(s) Received: (Check all that apply):Soil/Solid	d _ 🗸	_Water _	Oth	er: (Describe)
Cooler Number/Temperature:/_2.2_° c	/	° C	/	° C/ ° C
Thermometer ID:				
Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between $0^{\circ}C$ to $\leq 6^{\circ}C^{(1)}$?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		¥		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		×		
Were all samples received intact ⁽¹⁾ ?	Y			
Was adequate sample volume provided ⁽¹⁾ ?	×			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	К			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	Y			•
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	×			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	x			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in			×	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NsOH, ZAAc+NaOH)	¥			42504
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis action to in the additional comm	s and note ents (abo	date/time a ve) and the	pd person case narra	contacted as well as the corrective tive. 12-11-69
Reviewed by	(Projec	Manager	r)	Date/Time Reviewed

Origins Laboratory, Inc.

efe Pellepi

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 4 of 19

ORIGINS LABORATORY, IN	IC
---------------------------	----

GCC Pueblo		David Bemis
3372 Lime Road		Project Number: [none]
		Project: Croundwater Manitaring
Pueblo CO	81004	Frojeci. Groundwater Monitoring

			MW-6						
		12/9	/2019 2:1	5:00PM					
Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
		GEL L	aborato	ries, LL	_C				
		Y91	12138-01 (Water)					
Anions by EPA 300.0									
Fluoride	ND	1.65	5.00	mg/L	50	1949080	12/09/2019	12/11/2019	U
Nitrite	ND	1.65	5.00	"	н		и	н	HU
Dissolved Metals by 60 ⁴	10C								
Aluminum	302	68.0	200	ug/L	1	1949876	12/13/2019	12/13/2019	
Arsenic	ND	5.00	30.0	"		U			U
Beryllium	ND	1.00	5.00	"	и		u	н	U
Boron	300	15.0	50.0		в		n	u	
Cadmium	ND	1.00	5.00		"		u	II	U
Chromium	2.66	1.00	10.0					u	J
Cobalt	22.0	1.00	5.00	"	"		U	12/16/2019	
Copper	ND	3.00	20.0	"		U		12/13/2019	U
Iron	229	30.0	100	"	U		u	u	
Lead	ND	3.30	20.0	"				"	U
Manganese	459	2.00	10.0	"	и		U	u	
Nickel	87.7	1.50	5.00	"			u	u	
Selenium	106	6.00	30.0	"	"		U	u	
Vanadium	ND	1.00	5.00		и		u	"	U
Zinc	17.6	3.30	20.0		"		u	u	J

Dissolved Metals by 6020A

Origins Laboratory, Inc.

Jefe Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 5 of 19

ORIGINS LABORATORY, INC

GCC Pueblo			David Bemis
3372 Lime Road			Project Number: [none]
Pueblo	00	81004	Project: Groundwater Monitoring
1 debio	00	01004	

MW-6									
		12/9	/2019_2:	15:00PM					
Analyte Re	esult	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
		GEL L	aborato	ries, LL	С				
		Y9 1	2138-01	(Water)					
Dissolved Metals by 6020A									
Lithium	466	30.0	100	ug/L	10	1949873	12/13/2019	12/15/2019	
Dissolved Metals by 7470A									
Mercury	ND	0.067	0.200	ug/L	1	1950258		12/16/2019	U
Nitrate/Nitrite by EPA 353.2									
Nitrogen, Nitrate/Nitrite	8.83	0.070	0.200	mg/L	10	1949601	12/09/2019	12/16/2019	
nH in Water by EPA 9040C									
	7 40			pH Units	1	RQI 1001	12/10/2019	12/10/2019	
Ч				P.1. 01110	I	D3E1001	12/10/2013	.2.02010	
TDS by EPA 160.1									
Total Dissolved Solids	5690	3.40	14.3	mg/L	1	1950845	12/09/2019	12/16/2019	

Origins Laboratory, Inc.

Jefe Pellyni.

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 6 of 19

GCC Pueblo			David Bemis
3372 Lime Road			Project Number: [none]
COVE Enno Road			Project: Groundwater Monitoring
Pueblo CC	0	81004	Tojeci. Groundwater Monitoring

MW-7										
		12/9	/2019 12:4	17:00PM						
Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes	
GEL Laboratories, LLC										
		Y9 [,]	12138-02 (Water)						
Anions by EPA 300.0										
Fluoride	ND	1.65	5.00	mg/L	50	1949080	12/09/2019	12/11/2019	U	
Nitrite	ND	1.65	5.00	"		u	н	"	HU	
Dissolved Metals by 601	0C									
Aluminum	ND	68.0	200	ug/L	1	1949876	12/13/2019	12/13/2019	U	
Arsenic	ND	5.00	30.0	U		U	P		U	
Beryllium	ND	1.00	5.00			"	U		U	
Boron	167	15.0	50.0			u	u	"		
Cadmium	ND	1.00	5.00	"		u	u		U	
Chromium	3.22	1.00	10.0	"	"	U	P		J	
Cobalt	1.74	1.00	5.00			"	u	12/16/2019	J	
Copper	ND	3.00	20.0	U			U	12/13/2019	U	
Iron	ND	30.0	100	"	н	u	u	W	U	
Lead	ND	3.30	20.0		u		u	u	U	
Manganese	21.2	2.00	10.0	"		"	U			
Nickel	20.1	1.50	5.00	"	"	"	u	u		
Selenium	99.3	6.00	30.0	"	"		u	"		
Vanadium	ND	1.00	5.00		u	u	U		U	
Zinc	9.11	3.30	20.0	"		u	n	n	J	

Dissolved Metals by 6020A

Origins Laboratory, Inc.

Jefe Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 7 of 19

EADONATOTT, INO

GCC Pueblo			David Bemis
3372 Lime Road			Project Number: [none]
			Project: Groundwater Monitoring
Pueblo	CO	81004	Froject. Groundwater Monitoring
Puedio	00	81004	

MW-7												
		12/9	/2019 12:	47:00PM								
Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes			
GEL Laboratories, LLC												
Y912138-02 (Water)												
Dissolved Metals by 60 Lithium	20A 404	30.0	100	ug/L	10	1949873	12/13/2019	12/15/2019				
Dissolved Metals by 74 Mercury	70A ND	0.067	0.200	ug/L	1	1950258	u	12/16/2019	U			
Nitrate/Nitrite by EPA 3 Nitrogen, Nitrate/Nitrite	53.2 16.2	0.175	0.500	mg/L	25	1949601	12/09/2019	12/16/2019				
pH in Water by EPA 904 pH	IOC 7.40			pH Units	1	B9L1001	12/10/2019	12/10/2019				
TDS by EPA 160.1 Total Dissolved Solids	5230	3.40	14.3	mg/L	1	1950845	12/09/2019	12/16/2019				

Origins Laboratory, Inc.

Jefe Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 8 of 19

ORIGI	NS BORATORY, INC
-------	---------------------

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Classical Che	emistry Parameters - Quality Control							
Origins Laboratory, Inc.								
_								

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9L1001 - NO PREP										
Duplicate (B9L1001-DUP1)		Source: Y912	2138-01		Prepared	: 12/10/2019	Analvzed: 12/	/10/2019		

рН	7.37	pH Units	7.40	0.406	200

Origins Laboratory, Inc.

a Pellopii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 9 of 19

٦

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Anions by EPA 300.0 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949080 -										
BLANK (1204452984-BLK)					Prepared	: Analyzed:	12/11/2019			
Nitrite	ND	0.100	mg/L				-			U
Fluoride	ND	0.100					-			U
LCS (1204452985-BKS)					Prepared	: Analyzed:	12/11/2019			
Nitrite	2.37	0.100	mg/L	2.50		94.6	90-110			
Fluoride	2.39	0.100		2.50		95.5	90-110			
DUP (1204452986 D)		Source: 498	648001		Prepared: Analyzed: 12/11/2019					
Nitrite	ND	5.00	mg/L		<1.65		0-20	0	20	HU
Fluoride	ND	5.00			<1.65		0-20	0	20	U
PS (1204452987 S)	Source: 498648001				Prepared: Analyzed: 12/11/2019					
Fluoride	120	5.00	mg/L	2.50		95.8	90-110			
Nitrite	118	5.00		2.50		94.3	90-110			Н

Origins Laboratory, Inc.

r Pellepi

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 10 of 19

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Dissolved Metals by 6010C - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949876 -										
FLTB (1204452970-BLK)					Prepared	: 12/13/2019	Analyzed: 12	/13/2019		
Boron	ND	50.0	ug/L				-			U
Copper	ND	20.0	H				-			U
Arsenic	ND	30.0	н				-			U
Beryllium	ND	5.00	H				-			U
Cadmium	ND	5.00	n				-			U
Chromium	ND	10.0	n				-			U
Cobalt	ND	5.00	n				-			U
Lead	ND	20.0	H				-			U
Vanadium	ND	5.00	H				-			U
Selenium	ND	30.0	H				-			U
Nickel	ND	5.00	"				-			U
Manganese	ND	10.0	I				-			U
Zinc	ND	20.0	н				-			U
Aluminum	ND	200	n				-			U
Iron	ND	100	н				-			U
BLANK (1204454700-BLK)					Prepared	: 12/13/2019	Analyzed: 12	/13/2019		
Lead	ND	20.0	ug/L				-			U
Manganese	ND	10.0					-			U
Nickel	ND	5.00					-			U
Selenium	ND	30.0	H				-			U
Zinc	ND	20.0	H				-			U
Iron	ND	100	н				-			U
Arsenic	ND	30.0	H				-			U
Vanadium	ND	5.00					-			U
Copper	ND	20.0	H				-			U
Cobalt	ND	5.00					-			U

Origins Laboratory, Inc.

e Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Dissolved Metals by 6010C - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949876 - SW846 3005A										
BLANK (1204454700-BLK)					Prepared	: 12/13/2019	Analyzed: 12	/13/2019		
Chromium	ND	10.0	ug/L				-			U
Cadmium	ND	5.00					-			U
Beryllium	ND	5.00	H				-			U
Aluminum	ND	200					-			U
Boron	ND	50.0	"				-			U
LCS (1204454701-BKS)					Prepared: 12/13/2019 Analyzed: 12/16/2019					
Cobalt	542	5.00	ua/L	500	·	108	80-120			
Bervllium	513	5.00	" "	500		103	80-120			
Arsenic	497	30.0	ı	500		99.4	80-120			
Boron	503	50.0	u	500		101	80-120			
Cadmium	505	5.00	u	500		101	80-120			
Chromium	514	10.0		500		103	80-120			
Vanadium	517	5.00		500		103	80-120			
Copper	514	20.0		500		103	80-120			
Zinc	492	20.0		500		98.4	80-120			
Selenium	505	30.0	n	500		101	80-120			
Nickel	493	5 00	n	500		98.6	80-120			
Manganese	511	10.0	II	500		102	80-120			
Lead	519	20.0	H	500		104	80-120			
Iron	5070	100	H	5000		101	80-120			
Aluminum	4850	200	"	5000		96.9	80-120			
DUP (1204454702 D)		Source: Y912	2138-01		Prepared	: 12/13/2019	Analyzed: 12	/13/2019		
Zinc	16.9	20.0	ua/L		17.6		0-20	4.17	20	J
Manganese	467	20.0	- 37 -		459		0-20	1.56	20	
Copper	ND	20.0			<3.00		0-20	40.4	20	U

Origins Laboratory, Inc.

a Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 12 of 19

ORIGINS ORY. INC

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Dissolved Metals by 6010C - Quality Control GEL Laboratories, LLC Reporting %REC RPD Spike Source Analyte Result Limit Units %REC Level Result Limits RPD Limit Notes Batch 1949876 - SW846 3005A DUP (1204454702 D) Source: Y912138-01 Prepared: 12/13/2019 Analyzed: 12/13/2019 <1.00 0-20 U Vanadium ND ug/L 200 20 5.00 Nickel н 87.7 0-20 86.5 1.38 20 5.00 Lead ND <3.30 0-20 1.41 20 U 20.0 229 0-20 Iron 262 13.7 20 100 Arsenic ND <5.00 0-20 NR 20 U 30.0 Selenium 103 106 0-20 3.1 20 30.0 Aluminum 302 367 0-20 19.4 20 200 Cobalt 22.0 0-20 4.22 20 22.9 5.00 Beryllium ND <1.00 0-20 53.6 20 U 5.00 300 0-20 Boron 309 2.96 20 50.0 Cadmium <1.00 0-20 88.7 20 U ND 5.00 J Chromium 3.04 2.66 0-20 13.4 20 10.0 MS (1204454703 S) Source: Y912138-01 Prepared: 12/13/2019 Analyzed: 12/13/2019 5000 Iron 5310 100 ug/L 229 102 75-125 500 <3.00 104 75-125 Copper 520 20.0 Cobalt н 500 22.0 91.8 75-125 481 5.00 Chromium 480 500 2.66 95.4 75-125 10.0 Cadmium 500 <1.00 89.7 75-125 449 5.00 105 Boron 824 500 300 75-125 50.0 99.7 Beryllium 498 500 <1.00 75-125 5.00 103 Arsenic 500 <5.00 75-125 514 30.0 Lead 500 <3.30 86.8 75-125 434 20.0 500 97.2 Zinc 17.6 75-125 503 20.0 н 500 459 102 75-125 Manganese 972 10.0 Nickel 500 87.7 102 75-125 595 5.00 u 500 103

Origins Laboratory, Inc.

Selenium

Jefe Pellepii

622

30.0

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

75-125

106

Page 13 of 19

Jen Pellegrini, Project Manager

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Dissolved Metals by 6010C - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949876 - SW846 3005A										

MS (1204454/03 S)	Source: Y912138-01 Prepared: 12/13/2019 Analyzed: 12/13/2019						
Vanadium513Aluminum5570	5.00	ug/L	500	<1.00	103	75-125	
	200	"	5000	302	105	75-125	

Origins Laboratory, Inc.

efe Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 14 of 19

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Dissolved Metals by 6020A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949873 -										
FLTB (1204452970-BLK)					Prepared	: 12/13/2019	Analyzed: 12	/15/2019		
Lithium	ND	10.0	ug/L				-			U
BLANK (1204454683-BLK)					Prepared	: 12/13/2019	Analyzed: 12	/15/2019		
Lithium	ND	10.0	ug/L				-			U
LCS (1204454684-BKS)					Prepared	: 12/13/2019	Analyzed: 12	/15/2019		
Lithium	49.4	10.0	ug/L	50.0		98.9	80-120			
DUP (1204454685 D)			Prepared: 12/13/2019 Analyzed: 12/15/2019							
Lithium	458	100	ug/L		466		0-20	1.66	20	
MS (1204454686 S)		Prepared: 12/13/2019 Analyzed: 12/15/2019								
Lithium	472	100	ug/L	50.0	466	0	75-125			

Origins Laboratory, Inc.

r Pellopi

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 15 of 19

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Dissolved Metals by 7470A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1950258 -										
FLTB (1204452970-BLK)					Prepared	: 12/13/2019	Analyzed: 12/	16/2019		
Mercury	ND	0.200	ug/L				-			U
BLANK (1204455272-BLK)					Prepared	: 12/13/2019	Analyzed: 12/	16/2019		
Mercury	ND	0.200	ug/L				-			U
LCS (1204455273-BKS)					Prepared	: 12/13/2019	Analyzed: 12/	16/2019		
Mercury	2.16	0.200	ug/L	2.00		108	80-120			
DUP (1204455274 D)	Source: 498778003				Prepared: 12/13/2019 Analyzed: 12/16/2019					
Mercury	ND	0.200	ug/L		<0.067		0-20	NR	20	U
MS (1204455275 S)	Source: 498778003				Prepared: 12/13/2019 Analyzed: 12/16/2019					
Mercury	2.21	0.200	ug/L	2.00	<0.067	110	75-125			

Origins Laboratory, Inc.

a Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 16 of 19

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Nitrate/Nitrite by EPA 353.2 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949601 -										
BLANK (1204453978-BLK)					Prepared	: Analyzed:	12/16/2019			
Nitrogen, Nitrate/Nitrite	ND	0.020	mg/L				-			U
LCS (1204453979-BKS)					Prepared	: Analyzed:	12/16/2019			
Nitrogen, Nitrate/Nitrite	1.05	0.020	mg/L	1.00		105	90-110			
DUP (1204453980 D)		Source: 498	647001		Prepared	: Analyzed:	12/16/2019			
Nitrogen, Nitrate/Nitrite	0.870	0.100	mg/L		0.855		0-20	1.74	20	
PS (1204453981 S)		Source: 498	647001		Prepared	: Analyzed:	12/16/2019			
Nitrogen, Nitrate/Nitrite	6.10	0.100	mg/L	1.00		105	90-110			

Origins Laboratory, Inc.

eje Pellepi

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 17 of 19

GCC Pueblo

3372 Lime Road

Pueblo

CO 81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

TDS by EPA 160.1 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1950845 -										
BLANK (1204456742-BLK)					Prepared	: Analyzed:	12/16/2019			
Total Dissolved Solids	ND	14.3	mg/L				-			U
LCS (1204456743-BKS)					Prepared	: Analyzed:	12/16/2019			
Total Dissolved Solids	301	14.3	mg/L	300		100	95-105			
LCSD (1204456744-BKSD)					Prepared	: Analyzed:	12/16/2019			
Total Dissolved Solids	304	14.3	mg/L	300		101	95-105	0.943	5	
DUP (1204456745 D)	Source: 498654002				Prepared	: Analyzed:	12/16/2019			
Total Dissolved Solids	2070	14.3	mg/L		2070		0-5	0.069	5	

Origins Laboratory, Inc.

e Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 18 of 19
ORIGINS	IGINS
LABORATORY, INC	LABORATORY, INC

|--|

3372 Lime Road

Pueblo CO

81004

David Bemis Project Number: [none] Project: Groundwater Monitoring

Notes and Definitions

- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- HU Holding time exceeded. Non detect.
- H Holding time exceeded
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.

e Pellepii

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 19 of 19