

Quarterly Sample Results

Community Monitoring Program





Split sample with
Southwest Groundwater



Gallery Well at BTA



Take 5 with CWG



Group photos w/ CWG and SWG at BTA and Castleberry Well



Castleberry Well (002-02)





Martins well (DS-17-17)



RC uses 3 AZ certified labs based on hold time

- **SVL**
 - Gen Chem, Metals,
 - Sulfide, Nitrate/Nitrite and Total & Dissolved Mercury (New well @ Martins)
- **Test America**
 - Rad Chem, F & Nitrate dups, & Cyanide
 - Rad Chem is subcontracted by Test America to AZ Certified lab- Rad Safety
- **ACZ Laboratories, Inc**
 - Rad Chem & Uranium (New well @ Martins)

Martins Ranch Well (DS-17-17)

<RL A result is less than the reporting limit

MDL Method detection limit

Sample site	AWQS (mg/L)	Results
Martin well		DS-17-17
Field Parameters		
EC mS/cm		
pH		
Temp C		
Total Metals		
Antimony	0.006	<0.003
Aluminum		<0.08
Arsenic	0.05	<0.003
Barium	2	0.0224
Beryllium	0.004	<0.002
Cadmium	0.005	<0.0002
Calcium		82
Chromium	0.1	<0.006
Cobalt		<0.006
Copper		<0.1
Iron		
Lead	0.05	<0.003
Magnesium		21.9
Manganese		<0.008
Molybdenum		<0.008
Nickel	0.1	<0.01
Potassium		3.22
Selenium	0.05	<0.003
Silica (SiO2)		44.8
Silver		<0.0001
Sodium		49.7
Zinc		<0.01
Hardness (CaCO3)		295
Vanadium		0.0079
Thallium	0.002	<0.001

Dissolved Metals	AWQS (mg/L)	Results
Antimony	0.006	<0.03
Aluminum		<0.08
Arsenic	0.05	<0.003
Barium	2	0.0232
Beryllium	0.004	<0.002
Boron		0.07
Cadmium	0.005	<0.0002
Chromium	0.1	<0.006
Cobalt		<0.006
Copper		<0.1
Iron		
Lead	0.05	<0.003
Manganese		<0.008
Molybdenum		<0.008
Nickel	0.1	<0.01
Selenium	0.05	<0.003
Silver		<0.0001
Zinc		<0.01
Thallium		<0.001
Vanadium		0.0075
Classical Chemistry Parameters		
Cyanide, total	0.2	<0.01
pH		8.2
Specific Conductance		871
Total Alkalinity	10	288
Bicarbonate		288
Carbonate		<1.0
Nitrate/Nitrite as N		0.998
Total Dissolved Solids		489
Anions by Ion Chromatography		
Chloride		25.1
Bromide		0.2
Fluoride SVL/TA	4	0.549
Sulfate		120

BTA Results

Last Sampled November 30, 2017

Sample Site	AWQS	BTA-01	BTA-01	BTA-01
mg/L	(mg/L)	(GALLERY WELL)	(GALLERY WELL)	(GALLERY WELL)
Analyte		May-17	Aug-17	Nov-17
Field Parameters				
EC mS/cm		1138	1006	1182
pH		7.06	6.95	7.45
Temp C		19.9	23.9	21.4
Dissolved Metals				
Antimony	0.006	<0.003	<0.003	<0.003
Aluminum		<0.08	<0.08	<0.08
Arsenic	0.05	<0.025	0.0176	<0.025
Barium	2	0.0193	0.013	0.0115
Beryllium	0.004	<0.002	<0.002	<0.002
Cadmium	0.005	<0.002	<0.002	<0.002
Calcium		130	126	125
Chromium	0.1	<0.006	<0.006	<0.006
Copper		<0.01	<0.01	<0.01
Iron		<0.1	<0.1	<0.1
Lead	0.05	<0.0075	0.003	<0.0075
Magnesium		34.4	32.1	38.6
Manganese		<0.008	<0.008	<0.008
Molybdenum		<0.008	<0.008	<0.008
Mercury	0.002	<0.0002	<0.0002	<0.0002
Nickel	0.1	<0.01	<0.01	<0.01
Potassium		9.45	9.02	8.23
Selenium	0.05	<0.04	<0.04	<0.04
Sodium		75.4	71.6	68.5
Zinc		0.032	<0.01	<0.01
Thallium		<0.001	<0.001	<0.001
Hardness (CaCO3)		467	455	470
Classical Chemistry Parameters				
Cyanide, amenable		0.05	0.05	0.05
Nitrate as N		0.34	0.56	1.1
Nitrite as N		0.1	0.1	0.1
Total Alkalinity		326	342	319
Bicarbonate		326	342	319
Carbonate		1	1	1
Nitrate/Nitrite as N		0.372	0.653	1.1
Total Dissolved Solids		780	703	824
Anions by Ion Chromatography				
Chloride		93.4	69.9	85.2
Fluoride SVL/TA		0.352	0.313	0.306
Sulfate		227	185	244
Rad Chem				
Gross Alpha (including Radium 226)				
pCi/L		4.0+ -1.2	2.5+ -/0.7	5.9 + - / 1.5
Radium 226 pCi/L		0.4	0.5	0.5
Radium 228 pCi/L		0.6	0.8	0.7
Total Radium pCi/L		0.6	0.8	0.7

Castleberry Well Results Sampled November 30, 2017

Sample Site	APP 002	002-02	002-02	002-02
	AWQS	002-02	002-02	002-02
mg/L		(Castleberry)	(Castleberry)	(Castleberry)
Analyte	(mg/L)	5/25/2017	8/31/2017	11/30/2017
Field Parameters				
EC mS/cm		1092	1050	931
pH		7.15	7.14	7.32
Temp C		20.5	25.8	20.6
DTW		7.25	9.95	7.08
Dissolved Metals				
Antimony	0.006	<0.003	<0.003	<0.003
Aluminum		<0.08	<0.08	<0.08
Arsenic	0.05	0.038	0.034	0.032
Barium	2	0.0229	0.024	0.0228
Beryllium	0.004	<0.002	<0.001	<0.002
Cadmium	0.005	<0.002	<0.002	<0.002
Calcium		100	91	86.8
Chromium	0.1	<0.006	<0.006	<0.006
Copper		<0.01	<0.01	<0.01
Iron		<0.1	<0.1	<0.1
Lead	0.05	<0.0075	<0.0005	<0.0075
Magnesium		21.1	17.5	18.2
Manganese		<0.008	<0.008	<0.008
Molybdenum		<0.008	<0.008	<0.008
Mercury	0.002	<0.0002	<0.0002	<0.0002
Nickel	0.1	<0.01	<0.01	<0.01
Potassium		11.8	11.7	11.3
Selenium	0.05	<0.04	<0.0005	<0.04
Sodium		98.6	88.4	82.6
Zinc		<0.01	<0.01	<0.01
Thallium	0.002	<0.001	<0.0001	<0.001
Hardness (CaCO3)		337	335	292
Classical Chemistry Parameters				
Cyanide, amenable	0.2	<0.05	<0.05	<0.05
Nitrate as N	10	0.41	0.35	0.6
Nitrite as N		<0.1	<0.1	<0.1
Nitrate/Nitrite as N		0.467	0.274	0.6
Total Alkalinity		276	272	291
Bicarbonate		276	272	291
Carbonate		<1	<1	<1
Total Dissolved Solids		706	680	624
Anions by Ion Chromatography				
Chloride		107	92	93
Fluoride SVL/TA	4	0.4	0.352	0.4
Sulfate		175	140	110
Rad Chem				
Gross Alpha (including Radium 226) pCi/L		2	2.1	3.4 +/- 1.1
Radium 226 pCi/L		0.4	0.5	0.5
Radium 228 pCi/L		0.6	0.8	0.8
Total Radium pCi/L		0.6	0.8	0.8



FOR SVL USE ONLY
SVL JOB #

TEMP on Receipt: -0.4°C

1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Rinsate, 5 = Oil
6 = Waste, 7 = Other

misc

Sampler's Signature

J. Mancha / F. Martinez
Montgomery

Indicate State of sample origination: **AZ**

* Sample Reject: ☐ Return ☐ Dispose ☐ Store (30 Days)

White: LAB COPY Yellow: CUSTOMER COPY

SVL-COC 9/05

* unfiltered HCL VOA arrived w/ Headroom. ~~AK~~ 12/8/17

Questions/ Comments??

- Dates in mind for Feb sampling event