



April 12, 2019

Johnny Pappas
Arizona Minerals Inc.
2210 E. Fort Lowell Rd
Tucson, AZ 85719

TEL (802) 235-5563
FAX

RE: Ground Water

Work Order No.: 19D0030
Order Name: POC-2 Quarterly
Suite

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 04/01/2019 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

Order: POC-2 Quarterly Suite

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
19D0030-01	POC#2-033119-1056	Ground Water	03/31/2019 1056

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

Case Narrative

The radiochemistry analysis was performed by Radiation Safety Engineering, Inc. in Chandler, AZ.

- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- L5 The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Lab Sample ID: 19D0030-01

Client Sample ID: POC#2-033119-1056
Collection Date/Time: 03/31/2019 1056
Matrix: Ground Water
Order Name: POC-2 Quarterly Suite

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	2000		110		mg/L	10	04/01/2019 1525	04/02/2019 1456	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	1900				mg/L	10	04/04/2019 0805	04/08/2019 1411	MH
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	04/01/2019 1505	04/01/2019 1508	EJ
ICP Dissolved Metals-E 200.7 (4.4)									
Calcium	470		40	M3	mg/L	10	04/01/2019 1525	04/02/2019 1456	MH
Iron	0.99		0.30		mg/L	1	04/01/2019 1525	04/02/2019 1443	MH
Magnesium	210		3.0	M3	mg/L	1	04/01/2019 1525	04/02/2019 1443	MH
Manganese	22		0.20	M3	mg/L	10	04/01/2019 1525	04/02/2019 1457	MH
Zinc	5.0		0.40	M3	mg/L	10	04/01/2019 1525	04/02/2019 1457	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Antimony	ND		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Arsenic	0.0075		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Barium	0.019		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Beryllium	0.00036		0.00025		mg/L	1	04/01/2019 1525	04/05/2019 1545	MH
Cadmium	0.0064		0.00025		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Chromium	0.00093		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Copper	0.0057		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Lead	ND		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1545	MH
Nickel	0.057		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Selenium	0.0021		0.0015		mg/L	1	04/01/2019 1525	04/05/2019 1250	MH
Thallium	ND		0.00050		mg/L	1	04/01/2019 1525	04/05/2019 1545	MH
CVAA Dissolved Mercury-E 245.1									
Mercury	ND		0.00050		mg/L	1	04/09/2019 1130	04/09/2019 1821	MH
ICP Total Metals-E200.7 (4.4)									

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Lab Sample ID: 19D0030-01

Client Sample ID: POC#2-033119-1056
Collection Date/Time: 03/31/2019 1056
Matrix: Ground Water
Order Name: POC-2 Quarterly Suite

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Calcium	460		40		mg/L	10	04/04/2019 0805	04/08/2019 1406	MH
Iron	1.4		0.30		mg/L	1	04/04/2019 0805	04/08/2019 1411	MH
Magnesium	190		3.0		mg/L	1	04/04/2019 0805	04/08/2019 1411	MH
Manganese	23		0.20		mg/L	10	04/04/2019 0805	04/08/2019 1407	MH
Zinc	5.1		0.40		mg/L	10	04/04/2019 0805	04/08/2019 1407	MH

ICP/MS Total Metals-E200.8 (5.4)

Antimony	ND		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Arsenic	0.0059		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Barium	0.022		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Beryllium	0.00057		0.00025		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Cadmium	0.0060		0.00025		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Chromium	ND		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1753	MH
Copper	0.0053		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Lead	0.0030		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Nickel	0.060		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Selenium	0.0014	0.00025	0.0015	E4	mg/L	1	04/03/2019 0910	04/04/2019 1337	MH
Thallium	ND		0.00050		mg/L	1	04/03/2019 0910	04/04/2019 1337	MH

CVAA Total Mercury-E245.1

Mercury	ND	0.000079	0.0010	E8, L5	mg/L	1	04/08/2019 1220	04/08/2019 1718	MH
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Anions by Ion Chromatography-E300.0 (2.1)

Fluoride	0.87		0.50		mg/L	1	04/01/2019 1505	04/01/2019 1508	EJ
Nitrogen, Nitrate (As N)	ND		0.50		mg/L	1	04/01/2019 1505	04/01/2019 1508	EJ
Nitrogen, Nitrite (As N)	ND		0.10		mg/L	1	04/01/2019 1505	04/01/2019 1508	EJ
Sulfate	2000		500		mg/L	100	04/01/2019 1530	04/01/2019 1539	EJ

Alkalinity-SM2320B

Alkalinity, Bicarbonate (As CaCO3)	200		2.0		mg/L	1	04/02/2019 1455	04/02/2019 1545	CR
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	04/02/2019 1455	04/02/2019 1545	CR
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	04/02/2019 1455	04/02/2019 1545	CR
Alkalinity, Total (As CaCO3)	200		2.0		mg/L	1	04/02/2019 1455	04/02/2019 1545	CR

Total Dissolved Solids (Residue, Filterable)-SM2540 C

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Lab Sample ID: 19D0030-01

Client Sample ID: POC#2-033119-1056
Collection Date/Time: 03/31/2019 1056
Matrix: Ground Water
Order Name: POC-2 Quarterly Suite

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Dissolved Solids (Residue, Filterable)	2900		20		mg/L	1	04/04/2019 0944	04/09/2019 1625	EJ
Cyanide-SM4500-CN BE									
Cyanide	ND		0.10		mg/L	1	04/09/2019 0930	04/09/2019 1530	EJ

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1904017 - E 200.7 (4.4)										
Blank (1904017-BLK1) Prepared & Analyzed: 04/02/2019										
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Manganese	ND	0.020	mg/L							
Zinc	ND	0.040	mg/L							
LCS (1904017-BS1) Prepared & Analyzed: 04/02/2019										
Calcium	10	4.0	mg/L	10.00		103	85-115			
Iron	1.0	0.30	mg/L	1.000		104	85-115			
Magnesium	10	3.0	mg/L	10.00		103	85-115			
Manganese	0.49	0.020	mg/L	0.5000		99	85-115			
Zinc	0.49	0.040	mg/L	0.5000		97	85-115			
LCS Dup (1904017-BSD1) Prepared & Analyzed: 04/02/2019										
Calcium	11	4.0	mg/L	10.00		106	85-115	2	20	
Iron	1.0	0.30	mg/L	1.000		104	85-115	0.09	20	
Magnesium	10	3.0	mg/L	10.00		103	85-115	0.03	20	
Manganese	0.49	0.020	mg/L	0.5000		98	85-115	0.5	20	
Zinc	0.48	0.040	mg/L	0.5000		97	85-115	0.4	20	
Matrix Spike (1904017-MS1) Source: 19D0030-01 Prepared & Analyzed: 04/02/2019										
Calcium	460	40	mg/L	10.00	470	NR	70-130			M3
Iron	1.9	0.30	mg/L	1.000	0.99	90	70-130			
Magnesium	190	3.0	mg/L	10.00	210	NR	70-130			M3
Manganese	21	0.20	mg/L	0.5000	22	NR	70-130			M3
Zinc	5.1	0.40	mg/L	0.5000	5.0	8	70-130			M3
Matrix Spike (1904017-MS2) Source: 19D0066-05 Prepared & Analyzed: 04/02/2019										
Calcium	560	40	mg/L	10.00	530	332	70-130			M3
Iron	1.1	0.30	mg/L	1.000	0.094	96	70-130			
Magnesium	120	3.0	mg/L	10.00	120	47	70-130			M3
Manganese	0.74	0.020	mg/L	0.5000	0.24	101	70-130			
Zinc	0.54	0.040	mg/L	0.5000	0.035	101	70-130			
Batch 1904018 - E 200.8 (5.4)										
Blank (1904018-BLK1) Prepared & Analyzed: 04/05/2019										
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0015	mg/L							
Thallium	ND	0.00050	mg/L							

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Date Received: 04/01/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 1904018 - E 200.8 (5.4)

LCS (1904018-BS1)

Prepared & Analyzed: 04/05/2019

Antimony	0.049	0.00050	mg/L	0.05000		97	85-115			
Arsenic	0.049	0.00050	mg/L	0.05000		99	85-115			
Barium	0.048	0.00050	mg/L	0.05000		96	85-115			
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		99	85-115			
Chromium	0.047	0.00050	mg/L	0.05000		95	85-115			
Copper	0.050	0.00050	mg/L	0.05000		101	85-115			
Lead	0.048	0.00050	mg/L	0.05000		96	85-115			
Nickel	0.050	0.00050	mg/L	0.05000		101	85-115			
Selenium	0.049	0.0015	mg/L	0.05000		97	85-115			
Thallium	0.049	0.00050	mg/L	0.05000		98	85-115			

LCS Dup (1904018-BSD1)

Prepared & Analyzed: 04/05/2019

Antimony	0.047	0.00050	mg/L	0.05000		95	85-115	3	20	
Arsenic	0.050	0.00050	mg/L	0.05000		100	85-115	1	20	
Barium	0.047	0.00050	mg/L	0.05000		95	85-115	2	20	
Beryllium	0.049	0.00025	mg/L	0.05000		99	85-115	0.8	20	
Cadmium	0.051	0.00025	mg/L	0.05000		102	85-115	3	20	
Chromium	0.048	0.00050	mg/L	0.05000		96	85-115	2	20	
Copper	0.050	0.00050	mg/L	0.05000		100	85-115	0.6	20	
Lead	0.048	0.00050	mg/L	0.05000		95	85-115	0.5	20	
Nickel	0.050	0.00050	mg/L	0.05000		100	85-115	0.4	20	
Selenium	0.049	0.0015	mg/L	0.05000		99	85-115	2	20	
Thallium	0.049	0.00050	mg/L	0.05000		97	85-115	0.09	20	

Matrix Spike (1904018-MS1)

Source: 19D0130-04

Prepared & Analyzed: 04/05/2019

Antimony	0.051	0.00050	mg/L	0.05000	0.0013	99	70-130			
Arsenic	0.056	0.00050	mg/L	0.05000	0.0018	109	70-130			
Barium	0.076	0.00050	mg/L	0.05000	0.025	101	70-130			
Beryllium	0.045	0.00025	mg/L	0.05000	ND	90	70-130			
Cadmium	0.049	0.00025	mg/L	0.05000	0.00043	97	70-130			
Chromium	0.050	0.00050	mg/L	0.05000	0.0014	98	70-130			
Copper	0.047	0.00050	mg/L	0.05000	0.0028	89	70-130			
Lead	0.049	0.00050	mg/L	0.05000	0.00043	97	70-130			
Nickel	0.056	0.00050	mg/L	0.05000	0.0087	95	70-130			
Selenium	0.065	0.0015	mg/L	0.05000	0.0062	117	70-130			
Thallium	0.048	0.00050	mg/L	0.05000	0.00011	96	70-130			

Batch 1904042 - E200.8 (5.4)

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Qual
Batch 1904042 - E200.8 (5.4)										
Blank (1904042-BLK1)										
					Prepared: 04/03/2019 Analyzed: 04/04/2019					
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0015	mg/L							
Thallium	ND	0.00050	mg/L							
LCS (1904042-BS1)										
					Prepared: 04/03/2019 Analyzed: 04/04/2019					
Antimony	0.049	0.00050	mg/L	0.05000		98	85-115			
Arsenic	0.051	0.00050	mg/L	0.05000		102	85-115			
Barium	0.050	0.00050	mg/L	0.05000		99	85-115			
Beryllium	0.048	0.00025	mg/L	0.05000		95	85-115			
Cadmium	0.048	0.00025	mg/L	0.05000		97	85-115			
Chromium	0.048	0.00050	mg/L	0.05000		97	85-115			
Copper	0.049	0.00050	mg/L	0.05000		98	85-115			
Lead	0.050	0.00050	mg/L	0.05000		101	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		99	85-115			
Selenium	0.053	0.0015	mg/L	0.05000		105	85-115			
Thallium	0.048	0.00050	mg/L	0.05000		96	85-115			
LCS Dup (1904042-BSD1)										
					Prepared: 04/03/2019 Analyzed: 04/04/2019					
Antimony	0.048	0.00050	mg/L	0.05000		97	85-115	0.8	20	
Arsenic	0.049	0.00050	mg/L	0.05000		98	85-115	3	20	
Barium	0.049	0.00050	mg/L	0.05000		97	85-115	2	20	
Beryllium	0.048	0.00025	mg/L	0.05000		95	85-115	0.4	20	
Cadmium	0.048	0.00025	mg/L	0.05000		95	85-115	1	20	
Chromium	0.048	0.00050	mg/L	0.05000		96	85-115	0.6	20	
Copper	0.048	0.00050	mg/L	0.05000		97	85-115	2	20	
Lead	0.049	0.00050	mg/L	0.05000		99	85-115	2	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	1	20	
Selenium	0.050	0.0015	mg/L	0.05000		101	85-115	4	20	
Thallium	0.047	0.00050	mg/L	0.05000		95	85-115	1	20	

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Qual
Batch 1904042 - E200.8 (5.4)										
Matrix Spike (1904042-MS1)		Source: 19C0607-02			Prepared: 04/03/2019 Analyzed: 04/04/2019					
Antimony	0.050	0.00050	mg/L	0.05000	0.00036	99	70-130			
Arsenic	0.058	0.00050	mg/L	0.05000	ND	117	70-130			
Barium	0.051	0.00050	mg/L	0.05000	0.00011	101	70-130			
Beryllium	0.040	0.00025	mg/L	0.05000	0.000016	81	70-130			
Cadmium	0.047	0.00025	mg/L	0.05000	ND	93	70-130			
Chromium	0.047	0.0025	mg/L	0.05000	0.0010	92	70-130			
Copper	0.048	0.00050	mg/L	0.05000	0.0039	88	70-130			
Lead	0.050	0.00050	mg/L	0.05000	0.00012	101	70-130			
Nickel	0.062	0.00050	mg/L	0.05000	0.018	89	70-130			
Selenium	0.086	0.0015	mg/L	0.05000	0.015	142	70-130			M6
Thallium	0.049	0.00050	mg/L	0.05000	0.00019	97	70-130			
Batch 1904054 - E200.7 (4.4)										
Blank (1904054-BLK1)		Prepared: 04/04/2019 Analyzed: 04/08/2019								
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Manganese	ND	0.020	mg/L							
Zinc	ND	0.040	mg/L							
LCS (1904054-BS1)		Prepared: 04/04/2019 Analyzed: 04/08/2019								
Calcium	9.6	4.0	mg/L	10.00		96	85-115			
Iron	0.92	0.30	mg/L	1.000		92	85-115			
Magnesium	9.5	3.0	mg/L	10.00		95	85-115			
Manganese	0.48	0.020	mg/L	0.5000		97	85-115			
Zinc	0.46	0.040	mg/L	0.5000		93	85-115			
LCS Dup (1904054-BSD1)		Prepared: 04/04/2019 Analyzed: 04/08/2019								
Calcium	9.7	4.0	mg/L	10.00		97	85-115	0.7	20	
Iron	0.95	0.30	mg/L	1.000		95	85-115	4	20	
Magnesium	9.6	3.0	mg/L	10.00		96	85-115	0.5	20	
Manganese	0.49	0.020	mg/L	0.5000		97	85-115	0.6	20	
Zinc	0.46	0.040	mg/L	0.5000		93	85-115	0.3	20	
Matrix Spike (1904054-MS1)		Source: 19C0630-01			Prepared: 04/04/2019 Analyzed: 04/08/2019					
Calcium	54	4.0	mg/L	10.00	46	85	70-130			
Iron	1.3	0.30	mg/L	1.000	0.28	101	70-130			
Magnesium	33	3.0	mg/L	10.00	24	93	70-130			
Manganese	0.54	0.020	mg/L	0.5000	0.062	96	70-130			
Zinc	0.64	0.040	mg/L	0.5000	0.19	90	70-130			
Matrix Spike (1904054-MS2)		Source: 19D0005-02			Prepared: 04/04/2019 Analyzed: 04/08/2019					
Calcium	160	4.0	mg/L	10.00	160	65	70-130			M3
Iron	1.9	0.30	mg/L	1.000	1.1	81	70-130			
Magnesium	42	3.0	mg/L	10.00	33	90	70-130			
Manganese	0.56	0.020	mg/L	0.5000	0.083	95	70-130			
Zinc	0.64	0.040	mg/L	0.5000	0.17	95	70-130			
Batch 1904083 - E245.1										

Client: Arizona Minerals Inc.
 Project: Ground Water
 Work Order: 19D0030
 Date Received: 04/01/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1904083 - E245.1										
Blank (1904083-BLK1)				Prepared & Analyzed: 04/08/2019						
Mercury	ND	0.00050	mg/L							
LCS (1904083-BS1)				Prepared & Analyzed: 04/08/2019						
Mercury	0.0062	0.00050	mg/L	0.005000		123	85-115			L5
LCS Dup (1904083-BSD1)				Prepared & Analyzed: 04/08/2019						
Mercury	0.0059	0.00050	mg/L	0.005000		119	85-115	4	20	L5
Matrix Spike (1904083-MS1)				Source: 19D0037-01		Prepared & Analyzed: 04/08/2019				
Mercury	0.0058	0.00050	mg/L	0.005000	ND	117	70-130			
Matrix Spike (1904083-MS2)				Source: 19D0236-01		Prepared & Analyzed: 04/08/2019				
Mercury	0.0062	0.00050	mg/L	0.005000	ND	123	70-130			
Matrix Spike Dup (1904083-MSD1)				Source: 19D0037-01		Prepared & Analyzed: 04/08/2019				
Mercury	0.0061	0.00050	mg/L	0.005000	ND	122	70-130	5	20	
Matrix Spike Dup (1904083-MSD2)				Source: 19D0236-01		Prepared & Analyzed: 04/08/2019				
Mercury	0.0051	0.00050	mg/L	0.005000	ND	101	70-130	20	20	
Batch 1904097 - E 245.1										
Blank (1904097-BLK1)				Prepared & Analyzed: 04/09/2019						
Mercury	ND	0.00050	mg/L							
LCS (1904097-BS1)				Prepared & Analyzed: 04/09/2019						
Mercury	0.0049	0.00050	mg/L	0.005000		98	85-115			
LCS Dup (1904097-BSD1)				Prepared & Analyzed: 04/09/2019						
Mercury	0.0048	0.00050	mg/L	0.005000		97	85-115	2	20	
Matrix Spike (1904097-MS1)				Source: 19D0130-01		Prepared & Analyzed: 04/09/2019				
Mercury	0.0050	0.00050	mg/L	0.005000	ND	100	85-115			
Matrix Spike Dup (1904097-MSD1)				Source: 19D0130-01		Prepared & Analyzed: 04/09/2019				
Mercury	0.0050	0.00050	mg/L	0.005000	ND	100	85-115	0.2	20	

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1904026 - SM2320B										
Blank (1904026-BLK1)				Prepared & Analyzed: 04/02/2019						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (1904026-BS1)				Prepared & Analyzed: 04/02/2019						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		97	90-110			
LCS Dup (1904026-BSD1)				Prepared & Analyzed: 04/02/2019						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		97	90-110	0	10	
Matrix Spike (1904026-MS1)				Source: 19D0037-01		Prepared & Analyzed: 04/02/2019				
Alkalinity, Total (As CaCO3)	340	2.0	mg/L	250.0	100	97	70-130			
Matrix Spike Dup (1904026-MSD1)				Source: 19D0037-01		Prepared & Analyzed: 04/02/2019				
Alkalinity, Total (As CaCO3)	340	2.0	mg/L	250.0	100	98	70-130	0.6	10	
Batch 1904050 - SM2540 C										
Duplicate (1904050-DUP1)				Source: 19D0005-01		Prepared: 04/04/2019 Analyzed: 04/05/2019				
Total Dissolved Solids (Residue, Filterable)	1100	20	mg/L		1100			2	5	
Batch 1904105 - SM4500-CN BE										
Blank (1904105-BLK1)				Prepared & Analyzed: 04/09/2019						
Cyanide	ND	0.10	mg/L							
LCS (1904105-BS1)				Prepared & Analyzed: 04/09/2019						
Cyanide	2.0	0.10	mg/L	2.000		101	85-115			
LCS Dup (1904105-BSD1)				Prepared & Analyzed: 04/09/2019						
Cyanide	2.0	0.10	mg/L	2.000		101	85-115	0.2	15	
Matrix Spike (1904105-MS1)				Source: 19D0037-01		Prepared & Analyzed: 04/09/2019				
Cyanide	2.2	0.10	mg/L	2.000	ND	109	80-120			
Matrix Spike Dup (1904105-MSD1)				Source: 19D0037-01		Prepared & Analyzed: 04/09/2019				
Cyanide	2.1	0.10	mg/L	2.000	ND	105	80-120	4	15	

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19D0030
Date Received: 04/01/2019

QC Summary

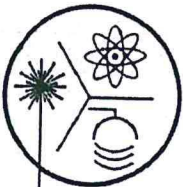
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1904006 - E300.0 (2.1)										
Blank (1904006-BLK1) Prepared & Analyzed: 04/01/2019										
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1904006-BS1) Prepared & Analyzed: 04/01/2019										
Fluoride	2.0	0.50	mg/L	2.000		101	90-110			
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000		98	90-110			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		100	90-110			
Sulfate	12	5.0	mg/L	12.50		100	90-110			
LCS Dup (1904006-BSD1) Prepared & Analyzed: 04/01/2019										
Fluoride	2.1	0.50	mg/L	2.000		103	90-110	2	10	
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000		99	90-110	1	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		102	90-110	1	10	
Sulfate	13	5.0	mg/L	12.50		101	90-110	2	10	
Matrix Spike (1904006-MS1) Source: 19D0033-02 Prepared & Analyzed: 04/01/2019										
Fluoride	2.3	0.50	mg/L	2.000	0.23	101	80-120			
Nitrogen, Nitrate (As N)	6.0	0.50	mg/L	5.000	1.2	95	80-120			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	ND	100	80-120			
Sulfate	14	5.0	mg/L	12.50	2.7	89	80-120			
Matrix Spike Dup (1904006-MSD1) Source: 19D0033-02 Prepared & Analyzed: 04/01/2019										
Fluoride	2.3	0.50	mg/L	2.000	0.23	103	80-120	1	10	
Nitrogen, Nitrate (As N)	6.1	0.50	mg/L	5.000	1.2	97	80-120	0.9	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500	ND	101	80-120	1	10	
Sulfate	14	5.0	mg/L	12.50	2.7	90	80-120	1	10	

POC-2 Quarterly Suite

LABORATORY			
Analyte	Total	Dissolved	Other
Metals			
Antimony	X	X	
Arsenic	X	X	
Barium	X	X	
Beryllium	X	X	
Cadmium	X	X	
Chromium	X	X	
Copper	X	X	
Iron	X	X	
Lead	X	X	
Manganese	X	X	
Mercury	X	X	
Nickel	X	X	
Selenium	X	X	
Thallium	X	X	
Zinc	X	X	
Major Cations			
Hardness	X	X	
Major Anions			
Total Alkalinity	X		
Acidity	X		
Fluoride	X	X	
Nitrate – Nitrite as N	X	X	
Nitrite - N	X	X	
Nitrate-Nitrite as N 1	X	X	
Sulfate	X	X	
Parameters			
Total Dissolved Solids		X	
RadChem			
Gross Alpha Particle Activity	X	X	
Radium 226 + 228	X	X	
Cyanide			
Free CN	X	X	Free

FIELD MEASUREMENTS

pH
Specific conductance
Temperature
Depth to water



Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121
Website: www.radsafe.com

(480) 897-9459
FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

Turner Laboratories
2445 N. Coyote Drive, Ste. 104
Tucson, AZ 85745

Sampling Date: March 31, 2019
Sample Received: April 04, 2019
Analysis Completed: April 12, 2019

Sample ID	Gross Alpha Activity Method 600/00-02 (pCi/L)	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
19DD0030-01	2.2 ± 0.6	< 0.5	< 0.7	< 0.7
Date of Analysis	4/10/2019	4/5/2019	4/5/2019	4/5/2019


Robert L. Metzger, Ph.D., C.H.P. 4/12/2019
Laboratory License Number AZ0462 Date

Arizona Department of Environmental Quality
Drinking Water Radionuclides-Adjusted Gross Alpha, Radium 226 & 228, Uranium Analysis Report
 Samples To Be Taken At Entry Point Into Distribution System (EPDS) Only

PWS ID#: AZ04 _____

March 31, 2019 _____ 10:56 _____ (24 hour clock)

PWS Name: _____

Sample Date _____ Sample Time _____

Owner/Contact Person _____

Owner/Contact Fax Number _____

Owner/Contact Phone Number _____

Sample Collection Point _____

EPDS # _____

Compliance Sample Type:

- Reduced Monitoring
- Quarterly
- Composite of four quarterly samples

Date Q1 collected: _____
 Date Q2 collected: _____
 Date Q3 collected: _____
 Date Q4 collected: _____

RADIOCHEMICAL ANALYSIS

>>>To be filled out by laboratory personnel<<<

Combined Uranium must be reported in micrograms per liter

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analyses Run Date	Result	Exceed MCL
600/00-02	15 pCi/L	3 pCi/L	Adjusted Gross Alpha	4000			
7500 - Rn			Gross Alpha	4002	4/10/2019	2.2 ± 0.6	
			Radon	4004			
ASTM D6239	30 µg/L	1 µg/L	Combined Uranium	4006			
			Uranium 234	4007			
			Uranium 235	4008			
			Uranium 238	4009			
	5 pCi/L	1 pCi/L	Combined Radium (226,228)	4010	4/5/2019	< 0.7	
GammaRay HPGE		1 pCi/L	Radium 226	4020	4/5/2019	< 0.5	
GammaRay HPGE		1 pCi/L	Radium 228	4030	4/5/2019	< 0.7	

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

Specimen Number: RSE61966

Lab ID Number: AZ0462

Lab Name: Radiation Safety Engineering, Inc.

Printed Name and Phone Number of Laboratory Contact: Robert L. Metzger, Ph.D., C.H.P. (480) 897-9459

Comments: 19D0030-01

Authorized Signature: RL Metzger

Date Public Water System Notified: _____

SUBCONTRACT ORDER
Turner Laboratories, Inc.
19D0030

SENDING LABORATORY:

Turner Laboratories, Inc.
2445 N. Coyote Drive, Ste #104
Tucson, AZ 85745
Phone: 520.882.5880
Fax: 520.882.9788
Project Manager: Elizabeth Kasik

RECEIVING LABORATORY:

Radiation Safety Engineering, Inc.
3245 N. Washington St.
Chandler, AZ 85225-1121
Phone : (480) 897-9459
Fax: (480) 892-5446
Please CC Kevin Brim Kbrim@turnerlabs.com

Analysis

Expires	Laboratory ID	Comments
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Sample ID: 19D0030-01 Drinking Water Sampled: 03/31/2019 10:56



Radiochemistry, Radium 226/228

04/30/2019 10:56

Radiochemistry, Gross Alpha

09/27/2019 10:56

Containers Supplied:

DWAR-6

~~#CF~~ soc
6619169

Released By	Date	Received By	Date
_____	4/3/19	ups	4/3/19
_____	16:00	Soulet D. Carter	4/11/19
Released By	Date	Received By	Date
_____	_____	_____	11:00



October 29, 2019

Sarah Richman
Arizona Minerals Inc.
2210 E. Fort Lowell Rd
Tucson, AZ 85719

TEL (805) 617-9300
FAX

Work Order No.: 19J0374

RE: Ground Water

Dear Sarah Richman,

Turner Laboratories, Inc. received 1 sample(s) on 10/10/2019 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19J0374
Date Received: 10/10/2019

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
19J0374-01	POC#2-033119-1056	Ground Water	10/10/2019 1013

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19J0374
Date Received: 10/10/2019

Case Narrative

The radiochemistry analysis was performed by Radiation Safety Engineering, Inc. in Chandler, AZ.

- B1 Target analyte detected in the method blank at or above the method reporting limit.
 - B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
 - B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
 - D5 Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
 - E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
 - E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
 - M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
 - M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.
- ND Not Detected at or above the PQL
 - PQL Practical Quantitation Limit
 - DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19J0374
Lab Sample ID: 19J0374-01

Client Sample ID: POC#2-033119-1056
Collection Date/Time: 10/10/2019 1013
Matrix: Ground Water

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness, Dissolved-[CALC]									
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	1900		22		mg/L	1	10/14/2019 1040	10/19/2019 1052	MH
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	2100				mg/L	1	10/14/2019 1120	10/21/2019 1339	MH
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND		0.10		mg/L	1	10/10/2019 1611	10/10/2019 1653	EJ
ICP Dissolved Metals-E 200.7 (4.4)									
Calcium	460		4.0	M3	mg/L	1	10/14/2019 1040	10/19/2019 1052	MH
Iron	0.83		0.30		mg/L	1	10/14/2019 1040	10/19/2019 1053	MH
Magnesium	190		3.0		mg/L	1	10/14/2019 1040	10/19/2019 1052	MH
Manganese	23		0.20	M3	mg/L	10	10/14/2019 1040	10/19/2019 1101	MH
Zinc	4.6		0.040	M3	mg/L	1	10/14/2019 1040	10/19/2019 1053	MH
ICP/MS Dissolved Metals-E 200.8 (5.4)									
Antimony	ND		0.00050		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
Arsenic	0.0071		0.00050		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
Barium	0.019		0.00050		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
Beryllium	ND		0.0013	D5	mg/L	5	10/14/2019 1040	10/15/2019 1116	MH
Cadmium	0.0055		0.00025		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
Chromium	ND		0.0025	D5	mg/L	5	10/14/2019 1040	10/15/2019 1116	MH
Copper	0.0030		0.00050		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
Lead	ND		0.00050		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
Nickel	0.055		0.0025		mg/L	5	10/14/2019 1040	10/15/2019 1116	MH
Selenium	0.0027	0.0012	0.0075	E4	mg/L	5	10/14/2019 1040	10/15/2019 1116	MH
Thallium	ND		0.00050		mg/L	1	10/14/2019 1040	10/15/2019 1246	MH
CVAA Dissolved Mercury-E 245.1									
Mercury	0.00010	0.0000041	0.00050	E4	mg/L	1	10/22/2019 1408	10/22/2019 1502	AR
ICP Total Metals-E200.7 (4.4)									

Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19J0374
Lab Sample ID: 19J0374-01

Client Sample ID: POC#2-033119-1056
Collection Date/Time: 10/10/2019 1013
Matrix: Ground Water

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Calcium	480		4.0		mg/L	1	10/14/2019 1120	10/21/2019 1339	MH
Iron	2.0		0.30		mg/L	1	10/14/2019 1120	10/21/2019 1339	MH
Magnesium	210		3.0		mg/L	1	10/14/2019 1120	10/21/2019 1339	MH
Manganese	22		0.20		mg/L	10	10/14/2019 1120	10/21/2019 1345	MH
Zinc	4.4		0.040		mg/L	1	10/14/2019 1120	10/21/2019 1339	MH

ICP/MS Total Metals-E200.8 (5.4)

Antimony	ND		0.0025	D5	mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Arsenic	0.0048		0.0025		mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Barium	0.027		0.0025		mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Beryllium	0.00060		0.00025		mg/L	1	10/16/2019 1015	10/17/2019 1333	MH
Cadmium	0.0076		0.0013		mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Chromium	ND		0.0025	D5	mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Copper	0.0078		0.0025	B5	mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Lead	0.0062		0.00050		mg/L	1	10/16/2019 1015	10/17/2019 1333	MH
Nickel	0.066		0.0025	B7	mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Selenium	ND	0.0012	0.0075	E8	mg/L	5	10/16/2019 1015	10/17/2019 1250	MH
Thallium	ND		0.00050		mg/L	1	10/16/2019 1015	10/17/2019 1333	MH

CVAA Total Mercury-E245.1

Mercury	0.0000660.000041		0.0010	E4	mg/L	1	10/17/2019 1101	10/17/2019 1605	AR
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Anions by Ion Chromatography-E300.0 (2.1)

Fluoride	0.77		0.50		mg/L	1	10/10/2019 1611	10/18/2019 1117	EJ
Nitrogen, Nitrate (As N)	ND		0.50		mg/L	1	10/10/2019 1611	10/10/2019 1653	EJ
Nitrogen, Nitrite (As N)	ND		0.10		mg/L	1	10/10/2019 1611	10/10/2019 1653	EJ
Sulfate	2200		500		mg/L	100	10/10/2019 1611	10/11/2019 2209	EJ

Alkalinity-SM2320B

Alkalinity, Bicarbonate (As CaCO3)	190		2.0		mg/L	1	10/14/2019 1400	10/14/2019 1606	CR
Alkalinity, Carbonate (As CaCO3)	ND		2.0		mg/L	1	10/14/2019 1400	10/14/2019 1606	CR
Alkalinity, Hydroxide (As CaCO3)	ND		2.0		mg/L	1	10/14/2019 1400	10/14/2019 1606	CR
Alkalinity, Total (As CaCO3)	190		2.0		mg/L	1	10/14/2019 1400	10/14/2019 1606	CR

Total Dissolved Solids (Residue, Filterable)-SM2540 C

Total Dissolved Solids (Residue, Filterable)	3000		20		mg/L	1	10/13/2019 1023	10/15/2019 1710	CR
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Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19J0374
Lab Sample ID: 19J0374-01

Client Sample ID: POC#2-033119-1056
Collection Date/Time: 10/10/2019 1013
Matrix: Ground Water

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
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Cyanide-SM4500-CN BE

Cyanide	ND		0.10		mg/L	1	10/16/2019 0930	10/16/2019 1610	EJ
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Client: Arizona Minerals Inc.
Project: Ground Water
Work Order: 19J0374
Date Received: 10/10/2019

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Qual
Batch 1910169 - E 200.8 (5.4)										
Blank (1910169-BLK1)										
Prepared & Analyzed: 10/15/2019										
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0015	mg/L							
Thallium	ND	0.00050	mg/L							
LCS (1910169-BS1)										
Prepared & Analyzed: 10/15/2019										
Antimony	0.047	0.00050	mg/L	0.05000		94	85-115			
Arsenic	0.047	0.00050	mg/L	0.05000		94	85-115			
Barium	0.048	0.00050	mg/L	0.05000		96	85-115			
Beryllium	0.048	0.00025	mg/L	0.05000		95	85-115			
Cadmium	0.047	0.00025	mg/L	0.05000		94	85-115			
Chromium	0.047	0.00050	mg/L	0.05000		93	85-115			
Copper	0.047	0.00050	mg/L	0.05000		93	85-115			
Lead	0.047	0.00050	mg/L	0.05000		95	85-115			
Nickel	0.046	0.00050	mg/L	0.05000		92	85-115			
Selenium	0.050	0.0015	mg/L	0.05000		100	85-115			
Thallium	0.048	0.00050	mg/L	0.05000		96	85-115			
LCS Dup (1910169-BSD1)										
Prepared & Analyzed: 10/15/2019										
Antimony	0.047	0.00050	mg/L	0.05000		95	85-115	0.7	20	
Arsenic	0.048	0.00050	mg/L	0.05000		96	85-115	2	20	
Barium	0.048	0.00050	mg/L	0.05000		96	85-115	0.2	20	
Beryllium	0.048	0.00025	mg/L	0.05000		96	85-115	0.6	20	
Cadmium	0.048	0.00025	mg/L	0.05000		96	85-115	2	20	
Chromium	0.047	0.00050	mg/L	0.05000		95	85-115	2	20	
Copper	0.046	0.00050	mg/L	0.05000		92	85-115	1	20	
Lead	0.048	0.00050	mg/L	0.05000		96	85-115	0.7	20	
Nickel	0.047	0.00050	mg/L	0.05000		94	85-115	1	20	
Selenium	0.050	0.0015	mg/L	0.05000		100	85-115	0.3	20	
Thallium	0.048	0.00050	mg/L	0.05000		96	85-115	0.2	20	

Client: Arizona Minerals Inc.
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1910169 - E 200.8 (5.4)										
Matrix Spike (1910169-MS1)		Source: 19J0382-01			Prepared & Analyzed: 10/15/2019					
Antimony	0.052	0.00050	mg/L	0.05000	0.000048	104	70-130			
Arsenic	0.054	0.00050	mg/L	0.05000	0.0016	105	70-130			
Barium	0.077	0.00050	mg/L	0.05000	0.028	97	70-130			
Beryllium	0.039	0.00025	mg/L	0.05000	0.000020	79	70-130			
Cadmium	0.046	0.00025	mg/L	0.05000	ND	92	70-130			
Chromium	0.052	0.00050	mg/L	0.05000	0.0027	99	70-130			
Copper	0.042	0.00050	mg/L	0.05000	0.0027	79	70-130			
Lead	0.046	0.00050	mg/L	0.05000	0.000073	92	70-130			
Nickel	0.053	0.00050	mg/L	0.05000	0.0074	92	70-130			
Selenium	0.055	0.0015	mg/L	0.05000	0.0020	107	70-130			
Thallium	0.047	0.00050	mg/L	0.05000	0.000062	94	70-130			
Batch 1910192 - E200.7 (4.4)										
Blank (1910192-BLK1)				Prepared: 10/14/2019 Analyzed: 10/21/2019						
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Manganese	ND	0.020	mg/L							
Zinc	ND	0.040	mg/L							
LCS (1910192-BS1)				Prepared: 10/14/2019 Analyzed: 10/21/2019						
Calcium	9.9	4.0	mg/L	10.00		99	85-115			
Iron	1.0	0.30	mg/L	1.000		100	85-115			
Magnesium	9.9	3.0	mg/L	10.00		99	85-115			
Manganese	0.50	0.020	mg/L	0.5000		100	85-115			
Zinc	0.48	0.040	mg/L	0.5000		97	85-115			
LCS Dup (1910192-BSD1)				Prepared: 10/14/2019 Analyzed: 10/21/2019						
Calcium	9.8	4.0	mg/L	10.00		98	85-115	0.2	20	
Iron	1.0	0.30	mg/L	1.000		101	85-115	0.7	20	
Magnesium	9.9	3.0	mg/L	10.00		99	85-115	0.2	20	
Manganese	0.50	0.020	mg/L	0.5000		100	85-115	0.4	20	
Zinc	0.48	0.040	mg/L	0.5000		96	85-115	0.5	20	
Matrix Spike (1910192-MS1)		Source: 19J0206-01			Prepared: 10/14/2019 Analyzed: 10/21/2019					
Calcium	210	4.0	mg/L	10.00	200	64	70-130			M3
Iron	2.0	0.30	mg/L	1.000	1.1	97	70-130			
Magnesium	52	3.0	mg/L	10.00	43	88	70-130			
Manganese	0.55	0.020	mg/L	0.5000	0.073	95	70-130			
Zinc	0.67	0.040	mg/L	0.5000	0.20	94	70-130			
Matrix Spike (1910192-MS2)		Source: 19J0390-01			Prepared: 10/14/2019 Analyzed: 10/22/2019					
Calcium	120	4.0	mg/L	10.00	120	50	70-130			M3
Iron	0.96	0.30	mg/L	1.000	0.028	93	70-130			
Magnesium	17	3.0	mg/L	10.00	8.4	90	70-130			
Manganese	0.46	0.020	mg/L	0.5000	0.015	89	70-130			
Zinc	0.45	0.040	mg/L	0.5000	0.016	87	70-130			
Batch 1910228 - E200.8 (5.4)										

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1910228 - E200.8 (5.4)										
Blank (1910228-BLK1)										
				Prepared: 10/16/2019 Analyzed: 10/17/2019						
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Copper	0.0035	0.00050	mg/L							B1
Lead	ND	0.00050	mg/L							
Nickel	0.0048	0.00050	mg/L							B1
Selenium	ND	0.0015	mg/L							
Thallium	ND	0.00050	mg/L							
LCS (1910228-BS1)										
				Prepared: 10/16/2019 Analyzed: 10/17/2019						
Antimony	0.052	0.00050	mg/L	0.05000		104	85-115			
Arsenic	0.051	0.00050	mg/L	0.05000		101	85-115			
Barium	0.051	0.00050	mg/L	0.05000		101	85-115			
Beryllium	0.052	0.00025	mg/L	0.05000		105	85-115			
Cadmium	0.052	0.00025	mg/L	0.05000		104	85-115			
Chromium	0.050	0.00050	mg/L	0.05000		99	85-115			
Copper	0.050	0.00050	mg/L	0.05000		100	85-115			
Lead	0.050	0.00050	mg/L	0.05000		100	85-115			
Nickel	0.050	0.00050	mg/L	0.05000		101	85-115			
Selenium	0.048	0.0015	mg/L	0.05000		97	85-115			
Thallium	0.047	0.00050	mg/L	0.05000		94	85-115			
LCS Dup (1910228-BSD1)										
				Prepared: 10/16/2019 Analyzed: 10/17/2019						
Antimony	0.052	0.00050	mg/L	0.05000		105	85-115	1	20	
Arsenic	0.051	0.00050	mg/L	0.05000		101	85-115	0.01	20	
Barium	0.052	0.00050	mg/L	0.05000		104	85-115	2	20	
Beryllium	0.052	0.00025	mg/L	0.05000		103	85-115	1	20	
Cadmium	0.051	0.00025	mg/L	0.05000		103	85-115	1	20	
Chromium	0.051	0.00050	mg/L	0.05000		102	85-115	2	20	
Copper	0.051	0.00050	mg/L	0.05000		101	85-115	1	20	
Lead	0.050	0.00050	mg/L	0.05000		100	85-115	0.5	20	
Nickel	0.052	0.00050	mg/L	0.05000		104	85-115	3	20	
Selenium	0.048	0.0015	mg/L	0.05000		96	85-115	0.7	20	
Thallium	0.047	0.00050	mg/L	0.05000		95	85-115	0.1	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1910228 - E200.8 (5.4)										
Matrix Spike (1910228-MS1)		Source: 19J0320-01			Prepared: 10/16/2019 Analyzed: 10/17/2019					
Antimony	0.050	0.00050	mg/L	0.05000	0.00019	99	70-130			
Arsenic	0.050	0.00050	mg/L	0.05000	0.0044	92	70-130			
Barium	0.12	0.00050	mg/L	0.05000	0.070	95	70-130			
Beryllium	0.048	0.00025	mg/L	0.05000	ND	95	70-130			
Cadmium	0.049	0.00025	mg/L	0.05000	ND	97	70-130			
Chromium	0.050	0.00050	mg/L	0.05000	ND	101	70-130			
Copper	0.051	0.00050	mg/L	0.05000	0.0088	84	70-130			
Lead	0.050	0.00050	mg/L	0.05000	0.00053	99	70-130			
Nickel	0.051	0.00050	mg/L	0.05000	0.0059	91	70-130			
Selenium	0.045	0.0015	mg/L	0.05000	0.00085	88	70-130			
Thallium	0.049	0.00050	mg/L	0.05000	0.00011	97	70-130			
Matrix Spike (1910228-MS2)		Source: 19J0320-02			Prepared: 10/16/2019 Analyzed: 10/17/2019					
Antimony	0.051	0.00050	mg/L	0.05000	0.00021	102	70-130			
Arsenic	0.057	0.00050	mg/L	0.05000	0.0045	106	70-130			
Barium	0.12	0.00050	mg/L	0.05000	0.071	93	70-130			
Beryllium	0.051	0.00025	mg/L	0.05000	0.000039	102	70-130			
Cadmium	0.051	0.00025	mg/L	0.05000	ND	102	70-130			
Chromium	0.045	0.00050	mg/L	0.05000	0.000050	90	70-130			
Copper	0.053	0.00050	mg/L	0.05000	0.0045	96	70-130			
Lead	0.052	0.00050	mg/L	0.05000	0.00011	103	70-130			
Nickel	0.047	0.00050	mg/L	0.05000	0.0051	83	70-130			
Selenium	0.051	0.0015	mg/L	0.05000	0.00074	101	70-130			
Thallium	0.050	0.00050	mg/L	0.05000	0.00012	100	70-130			
Batch 1910245 - E245.1										
Blank (1910245-BLK1)					Prepared & Analyzed: 10/17/2019					
Mercury	ND	0.0010	mg/L							
LCS (1910245-BS1)					Prepared & Analyzed: 10/17/2019					
Mercury	0.0050	0.0010	mg/L	0.005000		101	85-115			
LCS Dup (1910245-BSD1)					Prepared & Analyzed: 10/17/2019					
Mercury	0.0048	0.0010	mg/L	0.005000		95	85-115	6	20	
Matrix Spike (1910245-MS1)		Source: 19J0219-01			Prepared & Analyzed: 10/17/2019					
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130			
Matrix Spike (1910245-MS2)		Source: 19J0347-01			Prepared & Analyzed: 10/17/2019					
Mercury	0.0051	0.0010	mg/L	0.005000	ND	101	70-130			
Matrix Spike Dup (1910245-MSD1)		Source: 19J0219-01			Prepared & Analyzed: 10/17/2019					
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130	0.2	20	
Matrix Spike Dup (1910245-MSD2)		Source: 19J0347-01			Prepared & Analyzed: 10/17/2019					
Mercury	0.0051	0.0010	mg/L	0.005000	ND	102	70-130	0.9	20	
Batch 1910266 - E 200.7 (4.4)										

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Qual
Batch 1910266 - E 200.7 (4.4)										
Blank (1910266-BLK1) Prepared & Analyzed: 10/19/2019										
Calcium	ND	4.0	mg/L							
Iron	ND	0.30	mg/L							
Magnesium	ND	3.0	mg/L							
Manganese	ND	0.020	mg/L							
Zinc	ND	0.040	mg/L							
LCS (1910266-BS1) Prepared & Analyzed: 10/19/2019										
Calcium	9.6	4.0	mg/L	10.00		96	85-115			
Iron	0.95	0.30	mg/L	1.000		95	85-115			
Magnesium	9.7	3.0	mg/L	10.00		97	85-115			
Manganese	0.51	0.020	mg/L	0.5000		101	85-115			
Zinc	0.48	0.040	mg/L	0.5000		96	85-115			
LCS Dup (1910266-BSD1) Prepared & Analyzed: 10/19/2019										
Calcium	9.5	4.0	mg/L	10.00		95	85-115	0.8	20	
Iron	0.95	0.30	mg/L	1.000		95	85-115	0.02	20	
Magnesium	9.7	3.0	mg/L	10.00		97	85-115	0.01	20	
Manganese	0.50	0.020	mg/L	0.5000		100	85-115	1	20	
Zinc	0.46	0.040	mg/L	0.5000		92	85-115	4	20	
Matrix Spike (1910266-MS1) Source: 19J0374-01 Prepared & Analyzed: 10/19/2019										
Calcium	460	4.0	mg/L	10.00	460	34	70-130			M3
Iron	1.8	0.30	mg/L	1.000	0.83	94	70-130			
Magnesium	200	3.0	mg/L	10.00	190	84	70-130			
Manganese	23	0.20	mg/L	0.5000	23	NR	70-130			M3
Zinc	4.9	0.040	mg/L	0.5000	4.6	52	70-130			M3
Batch 1910289 - E 245.1										
Blank (1910289-BLK1) Prepared & Analyzed: 10/22/2019										
Mercury	0.000094	0.00050	mg/L							
LCS (1910289-BS1) Prepared & Analyzed: 10/22/2019										
Mercury	0.0052	0.00050	mg/L	0.005000		105	85-115			
LCS Dup (1910289-BSD1) Prepared & Analyzed: 10/22/2019										
Mercury	0.0052	0.00050	mg/L	0.005000		104	85-115	1	20	
Matrix Spike (1910289-MS1) Source: 19J0374-01 Prepared & Analyzed: 10/22/2019										
Mercury	0.0050	0.00050	mg/L	0.005000	0.00010	99	70-130			
Matrix Spike (1910289-MS2) Source: 19J0381-01 Prepared & Analyzed: 10/22/2019										
Mercury	0.0054	0.00050	mg/L	0.005000	0.00014	106	70-130			
Matrix Spike Dup (1910289-MSD1) Source: 19J0374-01 Prepared & Analyzed: 10/22/2019										
Mercury	0.0053	0.00050	mg/L	0.005000	0.00010	104	70-130	5	20	
Matrix Spike Dup (1910289-MSD2) Source: 19J0381-01 Prepared & Analyzed: 10/22/2019										
Mercury	0.0053	0.00050	mg/L	0.005000	0.00014	103	70-130	3	20	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1910173 - SM2540 C										
Duplicate (1910173-DUP1) Source: 19J0347-01 Prepared: 10/13/2019 Analyzed: 10/14/2019										
Total Dissolved Solids (Residue, Filterable)	250	20	mg/L		240			2	5	
Duplicate (1910173-DUP2) Source: 19J0362-01 Prepared: 10/13/2019 Analyzed: 10/14/2019										
Total Dissolved Solids (Residue, Filterable)	520	20	mg/L		520			0.2	5	
Batch 1910198 - SM2320B										
Blank (1910198-BLK1) Prepared & Analyzed: 10/14/2019										
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
LCS (1910198-BS1) Prepared & Analyzed: 10/14/2019										
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		97	90-110			
LCS Dup (1910198-BSD1) Prepared & Analyzed: 10/14/2019										
Alkalinity, Total (As CaCO3)	250	2.0	mg/L	250.0		98	90-110	2	10	
Matrix Spike (1910198-MS1) Source: 19J0377-01 Prepared & Analyzed: 10/14/2019										
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	98	94	70-130			
Matrix Spike Dup (1910198-MSD1) Source: 19J0377-01 Prepared & Analyzed: 10/14/2019										
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	98	93	70-130	0.6	10	
Batch 1910219 - SM4500-CN BE										
Blank (1910219-BLK1) Prepared & Analyzed: 10/16/2019										
Cyanide	ND	0.10	mg/L							
LCS (1910219-BS1) Prepared & Analyzed: 10/16/2019										
Cyanide	2.0	0.10	mg/L	2.000		100	85-115			
LCS Dup (1910219-BSD1) Prepared & Analyzed: 10/16/2019										
Cyanide	2.1	0.10	mg/L	2.000		105	85-115	5	15	
Matrix Spike (1910219-MS1) Source: 19J0009-02 Prepared & Analyzed: 10/16/2019										
Cyanide	2.0	0.10	mg/L	2.000	ND	102	80-120			
Matrix Spike Dup (1910219-MSD1) Source: 19J0009-02 Prepared & Analyzed: 10/16/2019										
Cyanide	2.1	0.10	mg/L	2.000	ND	104	80-120	2	15	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Qual
Batch 1910132 - E300.0 (2.1)										
Blank (1910132-BLK1) Prepared & Analyzed: 10/10/2019										
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1910132-BS1) Prepared & Analyzed: 10/10/2019										
Fluoride	2.2	0.50	mg/L	2.000		110	90-110			
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000		101	90-110			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500		95	90-110			
Sulfate	12	5.0	mg/L	12.50		99	90-110			
LCS Dup (1910132-BSD1) Prepared & Analyzed: 10/10/2019										
Fluoride	2.2	0.50	mg/L	2.000		110	90-110	0.3	10	
Nitrogen, Nitrate (As N)	5.0	0.50	mg/L	5.000		101	90-110	0.5	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500		94	90-110	0.5	10	
Sulfate	12	5.0	mg/L	12.50		99	90-110	0.4	10	
Matrix Spike (1910132-MS1) Source: 19J0369-01 Prepared & Analyzed: 10/10/2019										
Nitrogen, Nitrate (As N)	6.7	0.50	mg/L	5.000	1.5	104	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	94	80-120			
Sulfate	45	5.0	mg/L	12.50	34	91	80-120			
Matrix Spike (1910132-MS2) Source: 19J0374-01 Prepared: 10/10/2019 Analyzed: 10/11/2019										
Nitrogen, Nitrate (As N)	5.1	0.50	mg/L	5.000	ND	102	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	95	80-120			
Matrix Spike (1910132-MS3) Source: 19J0377-02 Prepared: 10/10/2019 Analyzed: 10/21/2019										
Fluoride	2.0	0.50	mg/L	2.000	ND	98	80-120			
Nitrogen, Nitrate (As N)	5.3	0.50	mg/L	5.000	ND	106	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	0.044	93	80-120			
Sulfate	14	5.0	mg/L	12.50	1.9	94	80-120			
Matrix Spike (1910132-MS4) Source: 19J0364-05 Prepared: 10/10/2019 Analyzed: 10/12/2019										
Sulfate	8500	2500	mg/L	6250	5000	56	80-120			M2
Matrix Spike (1910132-MS5) Source: 19J0364-01 Prepared: 10/10/2019 Analyzed: 10/12/2019										
Sulfate	2900	500	mg/L	1250	1800	94	80-120			
Matrix Spike (1910132-MS6) Source: 19J0369-01 Prepared: 10/10/2019 Analyzed: 10/21/2019										
Fluoride	2.4	0.50	mg/L	2.000	0.34	103	80-120			
Nitrogen, Nitrate (As N)	6.3	0.50	mg/L	5.000	1.5	95	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	96	80-120			
Sulfate	44	5.0	mg/L	12.50	34	80	80-120			M2
Matrix Spike (1910132-MS7) Source: 19J0377-01 Prepared: 10/10/2019 Analyzed: 10/21/2019										
Fluoride	2.2	0.50	mg/L	2.000	0.48	88	80-120			
Matrix Spike Dup (1910132-MSD1) Source: 19J0369-01 Prepared: 10/10/2019 Analyzed: 10/11/2019										
Nitrogen, Nitrate (As N)	6.7	0.50	mg/L	5.000	1.5	104	80-120	0.1	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	95	80-120	0.4	10	
Sulfate	45	5.0	mg/L	12.50	34	91	80-120	0.1	10	

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1910132 - E300.0 (2.1)										
Matrix Spike Dup (1910132-MSD2)		Source: 19J0374-01			Prepared: 10/10/2019 Analyzed: 10/11/2019					
Nitrogen, Nitrate (As N)	5.2	0.50	mg/L	5.000	ND	105	80-120	3	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	96	80-120	0.9	10	
Matrix Spike Dup (1910132-MSD3)		Source: 19J0377-02			Prepared: 10/10/2019 Analyzed: 10/21/2019					
Fluoride	1.9	0.50	mg/L	2.000	ND	97	80-120	1	10	
Nitrogen, Nitrate (As N)	5.3	0.50	mg/L	5.000	ND	106	80-120	0.1	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	0.044	93	80-120	0.4	10	
Sulfate	14	5.0	mg/L	12.50	1.9	94	80-120	0.2	10	
Matrix Spike Dup (1910132-MSD4)		Source: 19J0364-05			Prepared: 10/10/2019 Analyzed: 10/12/2019					
Sulfate	8500	2500	mg/L	6250	5000	56	80-120	0.1	10	M2
Matrix Spike Dup (1910132-MSD5)		Source: 19J0364-01			Prepared: 10/10/2019 Analyzed: 10/12/2019					
Sulfate	2900	500	mg/L	1250	1800	94	80-120	0.2	10	
Matrix Spike Dup (1910132-MSD6)		Source: 19J0369-01			Prepared: 10/10/2019 Analyzed: 10/21/2019					
Fluoride	2.2	0.50	mg/L	2.000	0.34	95	80-120	7	10	
Nitrogen, Nitrate (As N)	6.3	0.50	mg/L	5.000	1.5	95	80-120	0.4	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	96	80-120	0.08	10	
Sulfate	44	5.0	mg/L	12.50	34	78	80-120	0.5	10	M2
Matrix Spike Dup (1910132-MSD7)		Source: 19J0377-01			Prepared: 10/10/2019 Analyzed: 10/21/2019					
Fluoride	2.3	0.50	mg/L	2.000	0.48	91	80-120	2	10	



2445 N. Coyote Drive, Suite 104
 Tucson, Arizona 85745
 (520) 882-5880
 Fax: (520) 882-9788
 www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1950374 DATE 10/10 PAGE 1 OF 1

PROJECT NAME _____ # _____
 CONTACT NAME Sarah Richman, Sheena Leon
 COMPANY NAME South 32
 ADDRESS 2210 East Fort Lowell Road
 CITY Tucson STATE AZ ZIP CODE 85719
 PHONE _____ FAX _____
 SAMPLER'S SIGNATURE [Signature]

NUMBER OF CONTAINERS

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

5
See Attached

SAMPLE I.D.	DATE	TIME	LAB I.D.	AMPLE MAT
<u>PIC #12-101019-1013</u>	<u>10/10/19</u>	<u>10:13</u>	<u>GW</u>	<u>5</u>

1. RELINQUISHED BY:
 Signature [Signature]
 Printed Name Luis Lagunas
 Firm South 32
 Date/Time 10/10/19 10:58

2. RECEIVED BY:
 Signature [Signature]
 Printed Name Jessica Wrigm
 Firm WWC
 Date/Time 10/10/19 10:58

TURNAROUND REQUIREMENTS:
 _____ Standard (approx. 10 days)*
 _____ Next day _____ 2 Day
 _____ 5 Day*
 _____ Email Preliminary Results

REPORT REQUIREMENTS:
 _____ I. Routine Report
 _____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
 _____ III. Date Validation Report (Includes All Raw Data)
 Add 10% to invoice

INVOICE INFORMATION:
 Account _____ Y _____ N
 P.O. # _____
 Bill to: _____

SAMPLE RECEIPT:
 Total Containers 5
 Temperature 5.0
 Wet Ice Blue Ice

3. RELINQUISHED BY:
 Signature [Signature]
 Printed Name Jessica Wrigm
 Firm WWC
 Date/Time 10-10-19 1:54p

4. RECEIVED BY:
 Signature [Signature]
 Printed Name COOPER JALC
 Firm TURNER LABORATORIES, INC.
 Date/Time 10/10 1354

*LEGEND
 DW = DRINKING WATER
 GW = GROUNDWATER
 SD = SOLID
 SG = SLUDGE
 SL = SOIL

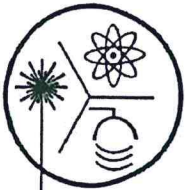
SPECIAL INSTRUCTIONS/COMMENTS:
 Compliance Analysis: Yes No
 ADEQ Forms: Yes No
 Mail ADEQ Forms: Yes No
 Custody Seals
 Container Intact
 COC/Labels Agree
 Preservation Confirmation
 Appropriate Head Space
 Received Within Hold Time

POC-2 Semi-Annual Suite

Analyte	LABORATORY		
	Total	Dissolved	Other
Metals			
Antimony	X	X	
Arsenic	X	X	
Barium	X	X	
Beryllium	X	X	
Cadmium	X	X	
Chromium	X	X	
Copper	X	X	
Iron	X	X	
Lead	X	X	
Manganese	X	X	
Mercury	X	X	
Nickel	X	X	
Selenium	X	X	
Thallium	X	X	
Zinc	X	X	
Major Cations			
Hardness	X		
Major Anions			
Total Alkalinity	X		
Acidity	X		
Fluoride	X	X	
Nitrate – Nitrite as N	X	X	
Nitrite - N	X	X	
Nitrate-Nitrite as N 1	X	X	
Sulfate	X	X	
Parameters			
Total Dissolved Solids		X	
pH			X
Specific Conductivity			X
RadChem			
Gross Alpha Particle Activity	X	X	
Radium 226 + 228	X	X	
Cyanide			
Free CN	X	X	Free

FIELD MEASUREMENTS	
pH	
Specific conductance	

Temperature
Depth to water



Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. • CHANDLER, ARIZONA 85225-1121
Website: www.radsafe.com

(480) 897-9459
FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

Turner Laboratories
2445 N. Coyote Drive, Ste. 104
Tucson, AZ 85745

Sampling Date: October 10, 2019
Sample Received: October 15, 2019
Analysis Completed: October 28, 2019

Sample ID	Gross Alpha Activity Method 600/00-02 (pCi/L)	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
19J0374-01	< 2.0	< 0.4	< 0.7	< 0.7

Date of Analysis	10/23/2019	10/18/2019	10/18/2019	10/18/2019
------------------	------------	------------	------------	------------


Robert L. Metzger, Ph.D., C.H.P. 10/28/2019
Laboratory License Number AZ0462 Date

Arizona Department of Environmental Quality
Drinking Water Radionuclides-Adjusted Gross Alpha, Radium 226 & 228, Uranium Analysis Report
 Samples To Be Taken At Entry Point Into Distribution System (EPDS) Only

PWS ID#: AZ04 _____

PWS Name: _____

October 10, 2019 10:13 (24 hour clock)
 Sample Date Sample Time

Owner/Contact Person _____

Owner/Contact Fax Number _____

Owner/Contact Phone Number _____

Sample Collection Point _____
 EPDS # _____

Compliance Sample Type:

- Reduced Monitoring Date Q1 collected: _____
- Quarterly Date Q2 collected: _____
- Composite of four quarterly samples Date Q3 collected: _____
- Date Q4 collected: _____

RADIOCHEMICAL ANALYSIS

>>>To be filled out by laboratory personnel<<<

Combined Uranium must be reported in micrograms per liter

Analysis Method	MCL	Reporting Limit	Contaminant Name	Cont. Code	Analyses Run Date	Result	Exceed MCL
600/00-02	15 pCi/L	3 pCi/L	Adjusted Gross Alpha	4000			
7500 - Rn			Gross Alpha	4002	10/23/2019	< 2.0	
ASTM D6239	30 µg/L	1 µg/L	Radon	4004			
			Combined Uranium	4006			µg/L
			Uranium 234	4007			
			Uranium 235	4008			
			Uranium 238	4009			
	5 pCi/L	1 pCi/L	Combined Radium (226,228)	4010	10/18/2019	< 0.7	
GammaRay HPGE		1 pCi/L	Radium 226	4020	10/18/2019	< 0.4	
GammaRay HPGE		1 pCi/L	Radium 228	4030	10/18/2019	< 0.7	

LABORATORY INFORMATION

>>>To be filled out by laboratory personnel<<<

Specimen Number: RSE63030
 Lab ID Number: AZ0462
 Lab Name: Radiation Safety Engineering, Inc.
 Printed Name and Phone Number of Laboratory Contact: Robert L. Metzger, Ph.D., C.H.P. (480) 897-9459
 Comments: 1910374-01
 Authorized Signature: *Robert L. Metzger*
 Date Public Water System Notified: _____
 DWAR 6: 11/2007

SUBCONTRACT ORDER
Turner Laboratories, Inc.
19J0374

SENDING LABORATORY:

Turner Laboratories, Inc.
2445 N. Coyote Drive, Ste #104
Tucson, AZ 85745
Phone: 520.882.5880
Fax: 520.882.9788
Project Manager: Elizabeth Kasik

RECEIVING LABORATORY:

Radiation Safety Engineering, Inc.
3245 N. Washington St.
Chandler, AZ 85225-1121
Phone: (480) 897-9459
Fax: (480) 892-5446
Please CC Kevin Brim Kbrim@turnerlabs.com

Analysis

Expires

Laboratory ID

Comments

Sample ID: 19J0374-01 Drinking Water Sampled: 10/10/2019 10:13



Radiochemistry, Radium 226/228

11/09/2019 10:13

Radiochemistry, Gross Alpha

04/07/2020 10:13

Containers Supplied:

63030

Released By: EB Cooper Date: 10/14/2019 Received By: ORS Date: 10/14/2019

Released By: _____ Date: _____ Received By: Rob Fleming Date: 10/15/19