TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 550-82219-1
TestAmerica Sample Delivery Group: Cholla
Client Project/Site: CCR
Revision: 1

For:
Arizona Public Service Company
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Joseph City, Arizona 86032

Attn: Doug Lavarnway

Authorized for release by:
6/13/2017 7:10:41 AM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D1	Sample required dilution due to matrix.
E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL) but above MDL.
H1	Sample analysis performed past holding time.
D5	Minimum Reporting Limit (MRL) adjusted due to sample dilution; analyte was non-detect in the sample.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

Metals

Qualifier	Qualifier Description
D1	Sample required dilution due to matrix.
M1	Matrix spike recovery was high, the associated blank spike recovery was acceptable.
B1	Target analyte detected in method blank at or above the method reporting limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 550-82219-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative
550-82219-1

Comments
This report contains thev results for fluoride analyzed by TA Phoenix.

Receipt
The samples were received on 5/4/2017 12:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.8º C, 1.4º C, 1.6º C, 1.7º C and 3.6º C.

HPLC/IC
Method(s) 300.0: Reanalysis of the following samples was performed outside of the 28 day analytical holding time for Fluoride by method EPA 300.0 due to the client requesting a lower dilution: FC-CCR-MW7-5317 (550-82219-1), FC-CCR-MW8-5317 (550-82219-2), FC-CCR-MW49A-5317 (550-82219-3), FC-CCR-MW60-5317 (550-82219-4), FC-CCR-MW61-5317 (550-82219-5), FC-CCR-MW62-5117 (550-82219-6), FC-CCR-MW63-5217 (550-82219-7), FC-CCR-MW64-5217 (550-82219-8), FC-CCR-FD02-5217 (550-82219-9), FC-CCR-MW65-5117 (550-82219-10), FC-CCR-FD01-5117 (550-82219-11), FC-CCR-MW66-5117 (550-82219-12), FC-CCR-MW67-5217 (550-82219-13), FC-CCR-MW68-5217 (550-82219-14), FC-CCR-MW69-5217 (550-82219-15), FC-CCR-MW70-5117 (550-82219-16), FC-CCR-MW71-5217 (550-82219-17), (550-82219-A-12 MS ^5) and (550-82219-A-12 MSD ^). As such, these data have been reported and qualified with H1 flags.

Method(s) 300.0: Reanalysis of the following samples was performed outside of the 28 day analytical holding time for Fluoride by method EPA 300.0 due to the client requesting a lower dilution: FC-CCR-MW72-5217 (550-82219-18), FC-CCR-MW73-5217 (550-82219-19), FC-CCR-MW74-5217 (550-82219-20), FC-CCR-MW75-5317 (550-82219-21), (550-82219-A-21 MS ^5) and (550-82219-A-21 MSD). As such, these data have been reported and qualified with H1 flags.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 200.8 LL: The method blank for preparation batch 550-116646 contained Lead above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 200.8 LL: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following samples: FC-CCR-MW66-5117 (550-82219-12), FC-CCR-MW67-5217 (550-82219-13), FC-CCR-MW68-5217 (550-82219-14), FC-CCR-MW69-5217 (550-82219-15), FC-CCR-MW70-5117 (550-82219-16), FC-CCR-MW71-5217 (550-82219-17), FC-CCR-MW72-5217 (550-82219-18), FC-CCR-MW73-5217 (550-82219-19), FC-CCR-MW74-5217 (550-82219-20) and FC-CCR-MW75-5317 (550-82219-21).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-82219-1	FC-CCR-MW7-5317	Water	05/03/17 11:52	05/04/17 12:30
550-82219-2	FC-CCR-MW8-5317	Water	05/03/17 10:50	05/04/17 12:30
550-82219-3	FC-CCR-MW49A-5317	Water	05/03/17 13:04	05/04/17 12:30
550-82219-4	FC-CCR-MW60-5317	Water	05/03/17 08:40	05/04/17 12:30
550-82219-5	FC-CCR-MW61-5317	Water	05/03/17 09:21	05/04/17 12:30
550-82219-6	FC-CCR-MW62-5117	Water	05/01/17 14:23	05/04/17 12:30
550-82219-7	FC-CCR-MW63-5217	Water	05/02/17 08:49	05/04/17 12:30
550-82219-8	FC-CCR-MW64-5217	Water	05/02/17 07:59	05/04/17 12:30
550-82219-9	FC-CCR-FD02-5217	Water	05/02/17 07:59	05/04/17 12:30
550-82219-10	FC-CCR-MW65-5117	Water	05/01/17 13:27	05/04/17 12:30
550-82219-11	FC-CCR-FD01-5117	Water	05/01/17 13:27	05/04/17 12:30
550-82219-12	FC-CCR-MW66-5117	Water	05/01/17 15:05	05/04/17 12:30
550-82219-13	FC-CCR-MW67-5217	Water	05/02/17 09:28	05/04/17 12:30
550-82219-14	FC-CCR-MW68-5217	Water	05/02/17 10:04	05/04/17 12:30
550-82219-15	FC-CCR-MW69-5217	Water	05/02/17 10:36	05/04/17 12:30
550-82219-16	FC-CCR-MW70-5117	Water	05/01/17 15:47	05/04/17 12:30
550-82219-17	FC-CCR-MW71-5217	Water	05/02/17 13:00	05/04/17 12:30
550-82219-18	FC-CCR-MW72-5217	Water	05/02/17 13:34	05/04/17 12:30
550-82219-19	FC-CCR-MW73-5217	Water	05/02/17 14:09	05/04/17 12:30
550-82219-20	FC-CCR-MW74-5217	Water	05/02/17 14:48	05/04/17 12:30
550-82219-21	FC-CCR-MW75-5317	Water	05/03/17 09:50	05/04/17 12:30

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW7-5317 — Lab Sample ID: 550-82219-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.35	D1 E4 H1	0.80	0.093	mg/L	2		300.0	Total/NA
Lithium	0.90		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.015		0.00050		mg/L	1		200.8 LL	Total/NA
Chromium	0.0024		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0035		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.011		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00010		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW8-5317 — Lab Sample ID: 550-82219-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.1	D1 E4 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	1.2		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.012		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00011		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.00060		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.014		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.0015	M1	0.00050		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW49A-5317 — Lab Sample ID: 550-82219-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.79	D1 E4 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	1.1		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00088		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.022		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00023		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.00065		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0037		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.025		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.0018		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.0014		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW60-5317 — Lab Sample ID: 550-82219-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	6.9	D1 H1	0.80	0.093	mg/L	2		300.0	Total/NA
Lithium	0.75		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00056		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.017		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00070		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.0025		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.27		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.17		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.00078		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00024		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW61-5317 — Lab Sample ID: 550-82219-5

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW61-5317 (Continued) — Lab Sample ID: 550-82219-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.2	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Lithium	0.38		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.014		0.00050		mg/L	1		200.8 LL	Total/NA
Cadmium	0.00094		0.00010		mg/L	1		200.8 LL	Total/NA
Chromium	0.00062		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.014		0.00050		mg/L	1		200.8 LL	Total/NA
Lead	0.00082		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.075		0.00050		mg/L	1		200.8 LL	Total/NA
Selenium	0.00067		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00015		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW62-5117 — Lab Sample ID: 550-82219-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.3	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Barium	0.021		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0066		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0032		0.00050		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW63-5217 — Lab Sample ID: 550-82219-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.7	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Barium	0.017		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0050		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0020		0.00050		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW64-5217 — Lab Sample ID: 550-82219-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.4	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Barium	0.026		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0011		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0045		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00011		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-FD02-5217 — Lab Sample ID: 550-82219-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.5	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Barium	0.026		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0011		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0044		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00011		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW65-5117 — Lab Sample ID: 550-82219-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.9	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Barium	0.017		0.00050		mg/L	1		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FC-CCR-MW65-5117 (Continued) — Lab Sample ID: 550-82219-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0011		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0083		0.00050		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-FD01-5117 — Lab Sample ID: 550-82219-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.8	H1	0.40	0.046	mg/L	1		300.0	Total/NA
Barium	0.017		0.00050		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0011		0.00050		mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0083		0.00050		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW66-5117 — Lab Sample ID: 550-82219-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	24	D1 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.32		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0018		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.020	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cobalt	0.0073	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.023	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.0022		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00033		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW67-5217 — Lab Sample ID: 550-82219-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	37	D1 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.43		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0027		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.019	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cadmium	0.00015		0.00010		mg/L	1		200.8 LL	Total/NA
Cobalt	0.0065	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.041	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.048		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00042		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW68-5217 — Lab Sample ID: 550-82219-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	10	D1 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.37		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0084		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.0068	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cobalt	0.0024	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.0073	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.28		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00068		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW69-5217 — Lab Sample ID: 550-82219-15

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW69-5217 (Continued) — Lab Sample ID: 550-82219-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	18	D1 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.45		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0087		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.015	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cobalt	0.0043	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.014	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.019		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00017		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW70-5117 — Lab Sample ID: 550-82219-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.7	D1 H1	0.80	0.093	mg/L	2		300.0	Total/NA
Lithium	0.32		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0070		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.0097	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cobalt	0.0053	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Molybdenum	0.0057	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.25		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00039		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW71-5217 — Lab Sample ID: 550-82219-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.44	D1 E4 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.34		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0072		0.00050		mg/L	1		200.8 LL	Total/NA
Barium	0.0087	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Selenium	0.27		0.00050		mg/L	1		200.8 LL	Total/NA
Thallium	0.00025		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW72-5217 — Lab Sample ID: 550-82219-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.32	D1 E4 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.38		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0030	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Barium	0.0079	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cobalt	0.0024	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.12	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Thallium	0.00091		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW73-5217 — Lab Sample ID: 550-82219-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.20	D1 E4 H1	0.80	0.093	mg/L	2		300.0	Total/NA
Lithium	0.24		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.026	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cadmium	0.00021		0.00020		mg/L	2		200.8 LL	Total/NA
Cobalt	0.0067	D1	0.0010		mg/L	2		200.8 LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW73-5217 (Continued) — Lab Sample ID: 550-82219-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.0037	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.015	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Thallium	0.00024		0.00010		mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW74-5217 — Lab Sample ID: 550-82219-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.9	D1 H1	0.80	0.093	mg/L	2		300.0	Total/NA
Lithium	0.38		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.0028	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Barium	0.018	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Molybdenum	0.019	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.067	D1	0.0010		mg/L	2		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW75-5317 — Lab Sample ID: 550-82219-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.4	D1 D5 E4 H1	2.0	0.23	mg/L	5		300.0	Total/NA
Lithium	0.43		0.20		mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.018	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Cadmium	0.0019		0.00010		mg/L	1		200.8 LL	Total/NA
Cobalt	0.042	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Lead	0.0031	D1	0.0020		mg/L	4		200.8 LL	Total/NA
Molybdenum	0.17	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Selenium	0.0022	D1	0.0010		mg/L	2		200.8 LL	Total/NA
Thallium	0.00018		0.00010		mg/L	1		200.8 LL	Total/NA
Hg	0.00028		0.00020		mg/L	1		245.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW7-5317

Lab Sample ID: 550-82219-1
Date Collected: 05/03/17 11:52
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.35**	**D1 E4 H1**	0.80	0.093	mg/L			06/07/17 07:21	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 01:55	1
Lithium	**0.90**		0.20		mg/L		05/05/17 07:16	05/10/17 01:55	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/15/17 18:58	05/16/17 20:26	1
Arsenic	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Barium	**0.015**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Cadmium	ND		0.00010		mg/L		05/15/17 18:58	05/16/17 20:26	1
Chromium	**0.0024**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Cobalt	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Lead	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Molybdenum	**0.0035**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Selenium	**0.011**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:26	1
Thallium	**0.00010**		0.00010		mg/L		05/15/17 18:58	05/16/17 20:26	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:25	1

Client Sample ID: FC-CCR-MW8-5317

Lab Sample ID: 550-82219-2
Date Collected: 05/03/17 10:50
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.1**	**D1 E4 H1**	2.0	0.23	mg/L			06/07/17 07:39	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:01	1
Lithium	**1.2**		0.20		mg/L		05/05/17 07:16	05/10/17 02:01	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:04	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:04	1
Barium	**0.012**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:33	1
Cadmium	**0.00011**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:04	1
Chromium	**0.00060**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:04	1
Cobalt	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:04	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:04	1
Molybdenum	**0.014**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:04	1
Selenium	**0.0015**	**M1**	0.00050		mg/L		05/05/17 09:39	05/13/17 16:04	1
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:04	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW8-5317

Lab Sample ID: 550-82219-2
Date Collected: 05/03/17 10:50
Matrix: Water
Date Received: 05/04/17 12:30

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:26	1

Client Sample ID: FC-CCR-MW49A-5317

Lab Sample ID: 550-82219-3
Date Collected: 05/03/17 13:04
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.79**	**D1 E4 H1**	2.0	0.23	mg/L			06/07/17 07:58	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:07	1
Lithium	**1.1**		0.20		mg/L		05/05/17 07:16	05/10/17 02:07	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:11	1
Arsenic	**0.00088**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:11	1
Barium	**0.022**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:36	1
Cadmium	**0.00023**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:11	1
Chromium	**0.00065**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:11	1
Cobalt	**0.0037**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:11	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:11	1
Molybdenum	**0.025**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:11	1
Selenium	**0.0018**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:11	1
Thallium	**0.0014**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:11	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:28	1

Client Sample ID: FC-CCR-MW60-5317

Lab Sample ID: 550-82219-4
Date Collected: 05/03/17 08:40
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**6.9**	**D1 H1**	0.80	0.093	mg/L			06/07/17 08:16	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:13	1
Lithium	**0.75**		0.20		mg/L		05/05/17 07:16	05/10/17 02:13	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:14	1
Arsenic	**0.00056**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:14	1
Barium	**0.017**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:38	1
Cadmium	**0.00070**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:14	1

Client Sample ID: FC-CCR-MW60-5317

Lab Sample ID: 550-82219-4
Date Collected: 05/03/17 08:40
Matrix: Water
Date Received: 05/04/17 12:30

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0025		0.00050		mg/L		05/05/17 09:39	05/13/17 16:14	1
Cobalt	0.27		0.00050		mg/L		05/05/17 09:39	05/13/17 16:14	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:14	1
Molybdenum	0.17		0.00050		mg/L		05/05/17 09:39	05/13/17 16:14	1
Selenium	0.00078		0.00050		mg/L		05/05/17 09:39	05/13/17 16:14	1
Thallium	0.00024		0.00010		mg/L		05/05/17 09:39	05/13/17 16:14	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:29	1

Client Sample ID: FC-CCR-MW61-5317

Lab Sample ID: 550-82219-5
Date Collected: 05/03/17 09:21
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.2	H1	0.40	0.046	mg/L			06/07/17 08:35	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:19	1
Lithium	0.38		0.20		mg/L		05/05/17 07:16	05/10/17 02:19	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:16	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:16	1
Barium	0.014		0.00050		mg/L		05/15/17 18:58	05/16/17 20:40	1
Cadmium	0.00094		0.00010		mg/L		05/05/17 09:39	05/13/17 16:16	1
Chromium	0.00062		0.00050		mg/L		05/05/17 09:39	05/13/17 16:16	1
Cobalt	0.014		0.00050		mg/L		05/05/17 09:39	05/13/17 16:16	1
Lead	0.00082		0.00050		mg/L		05/15/17 18:58	05/16/17 20:40	1
Molybdenum	0.075		0.00050		mg/L		05/05/17 09:39	05/13/17 16:16	1
Selenium	0.00067		0.00050		mg/L		05/05/17 09:39	05/13/17 16:16	1
Thallium	0.00015		0.00010		mg/L		05/05/17 09:39	05/13/17 16:16	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:31	1

Client Sample ID: FC-CCR-MW62-5117

Lab Sample ID: 550-82219-6
Date Collected: 05/01/17 14:23
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.3	H1	0.40	0.046	mg/L			06/07/17 08:53	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW62-5117

Lab Sample ID: 550-82219-6
Date Collected: 05/01/17 14:23
Matrix: Water
Date Received: 05/04/17 12:30

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:25	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 02:25	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:19	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:19	1
Barium	**0.021**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:43	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:19	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:19	1
Cobalt	**0.0066**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:19	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:19	1
Molybdenum	**0.0032**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:19	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:19	1
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:19	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:33	1

Client Sample ID: FC-CCR-MW63-5217

Lab Sample ID: 550-82219-7
Date Collected: 05/02/17 08:49
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.7**	**H1**	0.40	0.046	mg/L			06/07/17 09:11	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:31	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 02:31	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:23	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:23	1
Barium	**0.017**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:45	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:23	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:23	1
Cobalt	**0.0050**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:23	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:23	1
Molybdenum	**0.0020**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:23	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:23	1
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:23	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:34	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW64-5217

Lab Sample ID: 550-82219-8
Date Collected: 05/02/17 07:59
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**	**H1**	0.40	0.046	mg/L			06/07/17 10:07	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:37	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 02:37	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:26	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:26	1
Barium	**0.026**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:48	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:26	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:26	1
Cobalt	**0.0011**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:26	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:26	1
Molybdenum	**0.0045**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:26	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:26	1
Thallium	**0.00011**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:26	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:36	1

Client Sample ID: FC-CCR-FD02-5217

Lab Sample ID: 550-82219-9
Date Collected: 05/02/17 07:59
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.5**	**H1**	0.40	0.046	mg/L			06/07/17 10:25	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:40	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 02:40	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:28	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:28	1
Barium	**0.026**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:50	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:28	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:28	1
Cobalt	**0.0011**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:28	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:28	1
Molybdenum	**0.0044**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:28	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:28	1
Thallium	**0.00011**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:28	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-FD02-5217 — Lab Sample ID: 550-82219-9

Date Collected: 05/02/17 07:59
Date Received: 05/04/17 12:30
Matrix: Water

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:37	1

Client Sample ID: FC-CCR-MW65-5117 — Lab Sample ID: 550-82219-10

Date Collected: 05/01/17 13:27
Date Received: 05/04/17 12:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.9**	**H1**	0.40	0.046	mg/L			06/07/17 10:43	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:42	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 02:42	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:30	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:30	1
Barium	**0.017**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:52	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:30	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:30	1
Cobalt	**0.0011**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:30	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:30	1
Molybdenum	**0.0083**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:30	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:30	1
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:30	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:39	1

Client Sample ID: FC-CCR-FD01-5117 — Lab Sample ID: 550-82219-11

Date Collected: 05/01/17 13:27
Date Received: 05/04/17 12:30
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.8**	**H1**	0.40	0.046	mg/L			06/07/17 11:02	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:54	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 02:54	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:33	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:33	1
Barium	**0.017**		0.00050		mg/L		05/15/17 18:58	05/16/17 20:55	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:33	1

Client Sample ID: FC-CCR-FD01-5117

Lab Sample ID: 550-82219-11
Date Collected: 05/01/17 13:27
Matrix: Water
Date Received: 05/04/17 12:30

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:33	1
Cobalt	**0.0011**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:33	1
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:33	1
Molybdenum	**0.0083**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:33	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:33	1
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:33	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:44	1

Client Sample ID: FC-CCR-MW66-5117

Lab Sample ID: 550-82219-12
Date Collected: 05/01/17 15:05
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**24**	**D1 H1**	2.0	0.23	mg/L			06/07/17 11:20	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 02:56	1
Lithium	**0.32**		0.20		mg/L		05/05/17 07:16	05/10/17 02:56	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:40	1
Arsenic	**0.0018**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:40	1
Barium	**0.020**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:23	4
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:40	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 11:45	2
Cobalt	**0.0073**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:45	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:40	1
Molybdenum	**0.023**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:45	2
Selenium	**0.0022**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:40	1
Thallium	**0.00033**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:40	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:45	1

Client Sample ID: FC-CCR-MW67-5217

Lab Sample ID: 550-82219-13
Date Collected: 05/02/17 09:28
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**37**	**D1 H1**	2.0	0.23	mg/L			06/07/17 12:15	5

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW67-5217

Lab Sample ID: 550-82219-13
Date Collected: 05/02/17 09:28
Matrix: Water
Date Received: 05/04/17 12:30

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 19:35	1
Lithium	**0.43**		0.20		mg/L		05/09/17 11:07	05/10/17 19:35	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:42	1
Arsenic	**0.0027**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:42	1
Barium	**0.019**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:26	4
Cadmium	**0.00015**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:42	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 11:52	2
Cobalt	**0.0065**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:52	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:42	1
Molybdenum	**0.041**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:52	2
Selenium	**0.048**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:42	1
Thallium	**0.00042**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:42	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:47	1

Client Sample ID: FC-CCR-MW68-5217

Lab Sample ID: 550-82219-14
Date Collected: 05/02/17 10:04
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**10**	**D1 H1**	2.0	0.23	mg/L			06/07/17 12:34	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 19:41	1
Lithium	**0.37**		0.20		mg/L		05/09/17 11:07	05/10/17 19:41	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:45	1
Arsenic	**0.0084**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:45	1
Barium	**0.0068**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:28	4
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:45	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 11:55	2
Cobalt	**0.0024**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:55	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:45	1
Molybdenum	**0.0073**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:55	2
Selenium	**0.28**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:45	1
Thallium	**0.00068**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:45	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:48	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW69-5217

Lab Sample ID: 550-82219-15
Date Collected: 05/02/17 10:36
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**18**	**D1 H1**	2.0	0.23	mg/L			06/07/17 12:52	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 19:47	1
Lithium	**0.45**		0.20		mg/L		05/09/17 11:07	05/10/17 19:47	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:47	1
Arsenic	**0.0087**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:47	1
Barium	**0.015**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:30	4
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:47	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 11:57	2
Cobalt	**0.0043**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:57	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:47	1
Molybdenum	**0.014**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 11:57	2
Selenium	**0.019**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:47	1
Thallium	**0.00017**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:47	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:50	1

Client Sample ID: FC-CCR-MW70-5117

Lab Sample ID: 550-82219-16
Date Collected: 05/01/17 15:47
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.7**	**D1 H1**	0.80	0.093	mg/L			06/07/17 13:47	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 19:53	1
Lithium	**0.32**		0.20		mg/L		05/09/17 11:07	05/10/17 19:53	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:52	1
Arsenic	**0.0070**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:52	1
Barium	**0.0097**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:33	4
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:52	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:00	2
Cobalt	**0.0053**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:00	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:52	1
Molybdenum	**0.0057**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:00	2
Selenium	**0.25**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:52	1
Thallium	**0.00039**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:52	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW70-5117
Lab Sample ID: 550-82219-16
Date Collected: 05/01/17 15:47
Matrix: Water
Date Received: 05/04/17 12:30

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:51	1

Client Sample ID: FC-CCR-MW71-5217
Lab Sample ID: 550-82219-17
Date Collected: 05/02/17 13:00
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.44**	**D1 E4 H1**	2.0	0.23	mg/L			06/07/17 14:06	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 20:05	1
Lithium	**0.34**		0.20		mg/L		05/09/17 11:07	05/10/17 20:05	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:54	1
Arsenic	**0.0072**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:54	1
Barium	**0.0087**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:35	4
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:54	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:02	2
Cobalt	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:02	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:54	1
Molybdenum	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:02	2
Selenium	**0.27**		0.00050		mg/L		05/05/17 09:39	05/13/17 16:54	1
Thallium	**0.00025**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:54	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:53	1

Client Sample ID: FC-CCR-MW72-5217
Lab Sample ID: 550-82219-18
Date Collected: 05/02/17 13:34
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.32**	**D1 E4 H1**	2.0	0.23	mg/L			06/08/17 07:52	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 20:11	1
Lithium	**0.38**		0.20		mg/L		05/09/17 11:07	05/10/17 20:11	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 16:57	1
Arsenic	**0.0030**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:04	2
Barium	**0.0079**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:42	4
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 16:57	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW72-5217

Lab Sample ID: 550-82219-18
Date Collected: 05/02/17 13:34
Matrix: Water
Date Received: 05/04/17 12:30

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:04	2
Cobalt	**0.0024**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:04	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:57	1
Molybdenum	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:04	2
Selenium	**0.12**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:04	2
Thallium	**0.00091**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:57	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:54	1

Client Sample ID: FC-CCR-MW73-5217

Lab Sample ID: 550-82219-19
Date Collected: 05/02/17 14:09
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.20**	**D1 E4 H1**	0.80	0.093	mg/L			06/08/17 08:10	2

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 20:16	1
Lithium	**0.24**		0.20		mg/L		05/09/17 11:07	05/10/17 20:16	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0020		mg/L		05/05/17 09:39	05/14/17 12:07	2
Arsenic	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:07	2
Barium	**0.026**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:45	4
Cadmium	**0.00021**		0.00020		mg/L		05/05/17 09:39	05/14/17 12:07	2
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:07	2
Cobalt	**0.0067**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:07	2
Lead	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 16:59	1
Molybdenum	**0.0037**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:07	2
Selenium	**0.015**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:07	2
Thallium	**0.00024**		0.00010		mg/L		05/05/17 09:39	05/13/17 16:59	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:56	1

Client Sample ID: FC-CCR-MW74-5217

Lab Sample ID: 550-82219-20
Date Collected: 05/02/17 14:48
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.9**	**D1 H1**	0.80	0.093	mg/L			06/08/17 08:29	2

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW74-5217

Lab Sample ID: 550-82219-20
Date Collected: 05/02/17 14:48
Matrix: Water
Date Received: 05/04/17 12:30

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 20:22	1
Lithium	**0.38**		0.20		mg/L		05/09/17 11:07	05/10/17 20:22	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	D1	0.0020		mg/L		05/05/17 09:39	05/14/17 12:09	2
Arsenic	**0.0028**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:09	2
Barium	**0.018**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:47	4
Cadmium	ND	D1	0.00020		mg/L		05/05/17 09:39	05/14/17 12:09	2
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:09	2
Cobalt	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:09	2
Lead	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:09	2
Molybdenum	**0.019**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:09	2
Selenium	**0.067**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:09	2
Thallium	ND	D1	0.00020		mg/L		05/05/17 09:39	05/14/17 12:09	2

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:58	1

Client Sample ID: FC-CCR-MW75-5317

Lab Sample ID: 550-82219-21
Date Collected: 05/03/17 09:50
Matrix: Water
Date Received: 05/04/17 12:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**	**D1 D5 E4 H1**	2.0	0.23	mg/L			06/08/17 08:47	5

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 20:28	1
Lithium	**0.43**		0.20		mg/L		05/09/17 11:07	05/10/17 20:28	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 17:04	1
Arsenic	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:12	2
Barium	**0.018**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:49	4
Cadmium	**0.0019**		0.00010		mg/L		05/05/17 09:39	05/13/17 17:04	1
Chromium	ND	D1	0.0010		mg/L		05/05/17 09:39	05/14/17 12:12	2
Cobalt	**0.042**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:12	2
Lead	**0.0031**	**D1**	0.0020		mg/L		05/15/17 19:02	05/17/17 11:49	4
Molybdenum	**0.17**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:12	2
Selenium	**0.0022**	**D1**	0.0010		mg/L		05/05/17 09:39	05/14/17 12:12	2
Thallium	**0.00018**		0.00010		mg/L		05/05/17 09:39	05/13/17 17:04	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**0.00028**		0.00020		mg/L		05/11/17 11:17	05/12/17 13:14	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-119353/34 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.046	mg/L			06/07/17 04:54	1

Lab Sample ID: LCS 550-119353/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.23		mg/L		106	90 - 110

Lab Sample ID: LCSD 550-119353/38 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119353

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	4.00	4.25		mg/L		106	90 - 110	0	20

Lab Sample ID: 550-82219-12 MS — **Client Sample ID: FC-CCR-MW66-5117**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	24	H1 D1	20.0	46.3	D1 H1	mg/L		110	80 - 120

Lab Sample ID: 550-82219-12 MSD — **Client Sample ID: FC-CCR-MW66-5117**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	24	H1 D1	20.0	45.6	D1 H1	mg/L		106	80 - 120	1	20

Lab Sample ID: MB 550-119494/37 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND	E8	0.40	0.046	mg/L			06/08/17 04:29	1

Lab Sample ID: LCS 550-119494/40 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.26		mg/L		107	90 - 110

Lab Sample ID: LCSD 550-119494/41 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	4.00	4.27		mg/L		107	90 - 110	0	20

Lab Sample ID: 550-82219-21 MS — **Client Sample ID: FC-CCR-MW75-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.4	E4 H1 D1 D5	20.0	21.1	D1 H1	mg/L		99	80 - 120

Lab Sample ID: 550-82219-21 MSD — **Client Sample ID: FC-CCR-MW75-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 119494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.4	E4 H1 D1 D5	20.0	21.6	D1 H1	mg/L		101	80 - 120	2	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-116630/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116976 — **Prep Batch: 116630**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/05/17 07:16	05/10/17 00:36	1
Lithium	ND		0.20		mg/L		05/05/17 07:16	05/10/17 00:36	1

Lab Sample ID: LCS 550-116630/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116976 — **Prep Batch: 116630**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	1.01		mg/L		101	85 - 115
Lithium	1.00	0.982		mg/L		98	85 - 115

Lab Sample ID: LCSD 550-116630/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116976 — **Prep Batch: 116630**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	0.995		mg/L		99	85 - 115	2	20
Lithium	1.00	0.963		mg/L		96	85 - 115	2	20

Lab Sample ID: 550-82216-B-14-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116976 — **Prep Batch: 116630**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		1.00	0.921		mg/L		92	70 - 130
Lithium	0.36		1.00	1.29		mg/L		94	70 - 130

Lab Sample ID: 550-82216-B-14-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 116976 — **Prep Batch: 116630**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	0.931		mg/L		93	70 - 130	1	20
Lithium	0.36		1.00	1.35		mg/L		99	70 - 130	4	20

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Lab Sample ID: MB 550-116875/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117082 — **Prep Batch: 116875**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		05/09/17 11:07	05/10/17 19:08	1
Lithium	ND		0.20		mg/L		05/09/17 11:07	05/10/17 19:08	1

Lab Sample ID: LCS 550-116875/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117082 — **Prep Batch: 116875**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	1.03		mg/L		103	85 - 115
Lithium	1.00	1.05		mg/L		105	85 - 115

Lab Sample ID: LCSD 550-116875/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117082 — **Prep Batch: 116875**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	1.02		mg/L		102	85 - 115	1	20
Lithium	1.00	1.06		mg/L		106	85 - 115	1	20

Lab Sample ID: 550-82217-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117082 — **Prep Batch: 116875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	ND		1.00	1.03		mg/L		103	70 - 130
Lithium	ND		1.00	1.12		mg/L		107	70 - 130

Lab Sample ID: 550-82217-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117082 — **Prep Batch: 116875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	1.03		mg/L		103	70 - 130	0	20
Lithium	ND		1.00	1.13		mg/L		107	70 - 130	0	20

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-116646/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117317 — **Prep Batch: 116646**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/13/17 15:57	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1
Barium	0.00539	B1	0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 15:57	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1
Cobalt	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1
Lead	0.000569	B1	0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1
Molybdenum	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/13/17 15:57	1

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 550-116646/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117317 — **Prep Batch: 116646**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/13/17 15:57	1

Lab Sample ID: MB 550-116646/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117325 — **Prep Batch: 116646**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/05/17 09:39	05/14/17 11:02	1
Arsenic	ND		0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Barium	0.00528	B1	0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Cadmium	ND		0.00010		mg/L		05/05/17 09:39	05/14/17 11:02	1
Chromium	ND		0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Cobalt	ND		0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Lead	0.000572	B1	0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Molybdenum	ND		0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Selenium	ND		0.00050		mg/L		05/05/17 09:39	05/14/17 11:02	1
Thallium	ND		0.00010		mg/L		05/05/17 09:39	05/14/17 11:02	1

Lab Sample ID: LCS 550-116646/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117317 — **Prep Batch: 116646**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0975		mg/L		98	85 - 115
Arsenic	0.100	0.0975		mg/L		98	85 - 115
Barium	0.100	0.0998		mg/L		100	85 - 115
Cadmium	0.100	0.0952		mg/L		95	85 - 115
Chromium	0.100	0.0938		mg/L		94	85 - 115
Cobalt	0.100	0.0961		mg/L		96	85 - 115
Lead	0.100	0.0973		mg/L		97	85 - 115
Molybdenum	0.100	0.0920		mg/L		92	85 - 115
Selenium	0.100	0.101		mg/L		101	85 - 115
Thallium	0.100	0.0961		mg/L		96	85 - 115

Lab Sample ID: LCS 550-116646/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117325 — **Prep Batch: 116646**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0948		mg/L		95	85 - 115
Arsenic	0.100	0.0938		mg/L		94	85 - 115
Barium	0.100	0.0947		mg/L		95	85 - 115
Cadmium	0.100	0.0956		mg/L		96	85 - 115
Chromium	0.100	0.0940		mg/L		94	85 - 115
Cobalt	0.100	0.0937		mg/L		94	85 - 115
Lead	0.100	0.0955		mg/L		95	85 - 115
Molybdenum	0.100	0.0961		mg/L		96	85 - 115
Selenium	0.100	0.0929		mg/L		93	85 - 115
Thallium	0.100	0.0944		mg/L		94	85 - 115

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Lab Sample ID: LCSD 550-116646/3-A
Matrix: Water
Analysis Batch: 117317

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116646

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0960		mg/L		96	85 - 115	2	20
Arsenic	0.100	0.0954		mg/L		95	85 - 115	2	20
Barium	0.100	0.0996		mg/L		100	85 - 115	0	20
Cadmium	0.100	0.0937		mg/L		94	85 - 115	2	20
Chromium	0.100	0.0921		mg/L		92	85 - 115	2	20
Cobalt	0.100	0.0941		mg/L		94	85 - 115	2	20
Lead	0.100	0.0971		mg/L		97	85 - 115	0	20
Molybdenum	0.100	0.0910		mg/L		91	85 - 115	1	20
Selenium	0.100	0.0989		mg/L		99	85 - 115	2	20
Thallium	0.100	0.0968		mg/L		97	85 - 115	1	20

Lab Sample ID: LCSD 550-116646/3-A
Matrix: Water
Analysis Batch: 117325

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116646

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0949		mg/L		95	85 - 115	0	20
Arsenic	0.100	0.0943		mg/L		94	85 - 115	0	20
Barium	0.100	0.0966		mg/L		97	85 - 115	2	20
Cadmium	0.100	0.0960		mg/L		96	85 - 115	0	20
Chromium	0.100	0.0956		mg/L		96	85 - 115	2	20
Cobalt	0.100	0.0950		mg/L		95	85 - 115	1	20
Lead	0.100	0.0958		mg/L		96	85 - 115	0	20
Molybdenum	0.100	0.0962		mg/L		96	85 - 115	0	20
Selenium	0.100	0.0924		mg/L		92	85 - 115	1	20
Thallium	0.100	0.0952		mg/L		95	85 - 115	1	20

Lab Sample ID: 550-82219-2 MS
Matrix: Water
Analysis Batch: 117317

Client Sample ID: FC-CCR-MW8-5317
Prep Type: Total/NA
Prep Batch: 116646

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.0943		mg/L		94	70 - 130
Arsenic	ND		0.100	0.111		mg/L		110	70 - 130
Barium	0.013	B1	0.100	0.106		mg/L		93	70 - 130
Cadmium	0.00011		0.100	0.0845		mg/L		84	70 - 130
Chromium	0.00060		0.100	0.0955		mg/L		95	70 - 130
Cobalt	ND		0.100	0.0879		mg/L		87	70 - 130
Lead	ND		0.100	0.0793		mg/L		79	70 - 130
Molybdenum	0.014		0.100	0.109		mg/L		95	70 - 130
Selenium	0.0015	M1	0.100	0.152	M1	mg/L		150	70 - 130
Thallium	ND		0.100	0.0800		mg/L		80	70 - 130

Lab Sample ID: 550-82219-2 MS
Matrix: Water
Analysis Batch: 117325

Client Sample ID: FC-CCR-MW8-5317
Prep Type: Total/NA
Prep Batch: 116646

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		0.100	0.0949		mg/L		95	70 - 130
Arsenic	ND		0.100	0.109		mg/L		109	70 - 130
Barium	0.012	B1	0.100	0.104		mg/L		92	70 - 130

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: 550-82219-2 MS — **Client Sample ID: FC-CCR-MW8-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117325 — **Prep Batch: 116646**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.00012		0.100	0.0892		mg/L		89	70 - 130
Chromium	0.00060		0.100	0.100		mg/L		100	70 - 130
Cobalt	ND		0.100	0.0920		mg/L		92	70 - 130
Lead	ND		0.100	0.0820		mg/L		82	70 - 130
Molybdenum	0.014		0.100	0.118		mg/L		103	70 - 130
Selenium	0.0011	M1	0.100	0.136	M1	mg/L		135	70 - 130
Thallium	ND		0.100	0.0829		mg/L		83	70 - 130

Lab Sample ID: 550-82219-2 MSD — **Client Sample ID: FC-CCR-MW8-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117317 — **Prep Batch: 116646**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.0947		mg/L		94	70 - 130	0	20
Arsenic	ND		0.100	0.111		mg/L		110	70 - 130	0	20
Barium	0.013	B1	0.100	0.106		mg/L		93	70 - 130	0	20
Cadmium	0.00011		0.100	0.0850		mg/L		85	70 - 130	1	20
Chromium	0.00060		0.100	0.0961		mg/L		96	70 - 130	1	20
Cobalt	ND		0.100	0.0887		mg/L		88	70 - 130	1	20
Lead	ND		0.100	0.0786		mg/L		78	70 - 130	1	20
Molybdenum	0.014		0.100	0.110		mg/L		96	70 - 130	1	20
Selenium	0.0015	M1	0.100	0.153	M1	mg/L		151	70 - 130	1	20
Thallium	ND		0.100	0.0797		mg/L		80	70 - 130	0	20

Lab Sample ID: 550-82219-2 MSD — **Client Sample ID: FC-CCR-MW8-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117325 — **Prep Batch: 116646**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		0.100	0.0952		mg/L		95	70 - 130	0	20
Arsenic	ND		0.100	0.109		mg/L		109	70 - 130	1	20
Barium	0.012	B1	0.100	0.106		mg/L		93	70 - 130	1	20
Cadmium	0.00012		0.100	0.0898		mg/L		90	70 - 130	1	20
Chromium	0.00060		0.100	0.102		mg/L		101	70 - 130	2	20
Cobalt	ND		0.100	0.0931		mg/L		93	70 - 130	1	20
Lead	ND		0.100	0.0813		mg/L		81	70 - 130	1	20
Molybdenum	0.014		0.100	0.118		mg/L		103	70 - 130	0	20
Selenium	0.0011	M1	0.100	0.137	M1	mg/L		135	70 - 130	0	20
Thallium	ND		0.100	0.0825		mg/L		82	70 - 130	1	20

Lab Sample ID: MB 550-117429/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117578 — **Prep Batch: 117429**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.0010		mg/L		05/15/17 18:58	05/16/17 19:53	1
Arsenic	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Barium	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Cadmium	ND		0.00010		mg/L		05/15/17 18:58	05/16/17 19:53	1

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 550-117429/1-A
Matrix: Water
Analysis Batch: 117578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Cobalt	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Lead	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Molybdenum	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Selenium	ND		0.00050		mg/L		05/15/17 18:58	05/16/17 19:53	1
Thallium	ND		0.00010		mg/L		05/15/17 18:58	05/16/17 19:53	1

Lab Sample ID: LCS 550-117429/2-A
Matrix: Water
Analysis Batch: 117578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0986		mg/L		99	85 - 115
Arsenic	0.100	0.0978		mg/L		98	85 - 115
Barium	0.100	0.0999		mg/L		100	85 - 115
Cadmium	0.100	0.0990		mg/L		99	85 - 115
Chromium	0.100	0.0993		mg/L		99	85 - 115
Cobalt	0.100	0.0993		mg/L		99	85 - 115
Lead	0.100	0.0980		mg/L		98	85 - 115
Molybdenum	0.100	0.0991		mg/L		99	85 - 115
Selenium	0.100	0.0977		mg/L		98	85 - 115
Thallium	0.100	0.0979		mg/L		98	85 - 115

Lab Sample ID: LCSD 550-117429/3-A
Matrix: Water
Analysis Batch: 117578

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0991		mg/L		99	85 - 115	0	20
Arsenic	0.100	0.0965		mg/L		96	85 - 115	1	20
Barium	0.100	0.101		mg/L		101	85 - 115	1	20
Cadmium	0.100	0.0991		mg/L		99	85 - 115	0	20
Chromium	0.100	0.0986		mg/L		99	85 - 115	1	20
Cobalt	0.100	0.0984		mg/L		98	85 - 115	1	20
Lead	0.100	0.0982		mg/L		98	85 - 115	0	20
Molybdenum	0.100	0.0994		mg/L		99	85 - 115	0	20
Selenium	0.100	0.0970		mg/L		97	85 - 115	1	20
Thallium	0.100	0.0979		mg/L		98	85 - 115	0	20

Lab Sample ID: 550-81013-D-3-E MS
Matrix: Water
Analysis Batch: 117578

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 117429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0039		0.100	0.106		mg/L		102	70 - 130
Arsenic	0.0021		0.100	0.103		mg/L		101	70 - 130
Barium	0.018		0.100	0.120		mg/L		102	70 - 130
Cadmium	ND		0.100	0.0994		mg/L		99	70 - 130
Chromium	0.0022		0.100	0.101		mg/L		98	70 - 130

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: 550-81013-D-3-E MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117578 — **Prep Batch: 117429**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.00056		0.100	0.0971		mg/L		97	70 - 130
Lead	0.0030		0.100	0.0989		mg/L		96	70 - 130
Molybdenum	0.0010		0.100	0.104		mg/L		103	70 - 130
Selenium	ND		0.100	0.0994		mg/L		99	70 - 130
Thallium	ND		0.100	0.0963		mg/L		96	70 - 130

Lab Sample ID: 550-81013-D-3-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117578 — **Prep Batch: 117429**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.0039		0.100	0.107		mg/L		104	70 - 130	1	20
Arsenic	0.0021		0.100	0.103		mg/L		101	70 - 130	0	20
Barium	0.018		0.100	0.121		mg/L		103	70 - 130	1	20
Cadmium	ND		0.100	0.101		mg/L		101	70 - 130	1	20
Chromium	0.0022		0.100	0.101		mg/L		98	70 - 130	0	20
Cobalt	0.00056		0.100	0.0970		mg/L		96	70 - 130	0	20
Lead	0.0030		0.100	0.0993		mg/L		96	70 - 130	0	20
Molybdenum	0.0010		0.100	0.105		mg/L		104	70 - 130	1	20
Selenium	ND		0.100	0.0988		mg/L		99	70 - 130	1	20
Thallium	ND		0.100	0.0967		mg/L		97	70 - 130	0	20

Lab Sample ID: MB 550-117430/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117628 — **Prep Batch: 117430**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.00050		mg/L		05/15/17 19:02	05/17/17 11:09	1

Lab Sample ID: LCS 550-117430/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117628 — **Prep Batch: 117430**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.100	0.0979		mg/L		98	85 - 115

Lab Sample ID: LCSD 550-117430/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117628 — **Prep Batch: 117430**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.100	0.0985		mg/L		98	85 - 115	1	20

Lab Sample ID: 550-82503-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117628 — **Prep Batch: 117430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	0.0039		0.100	0.101		mg/L		97	70 - 130

Method: 200.8 LL - Metals (ICP/MS) (Continued)

Lab Sample ID: 550-82503-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117628 — **Prep Batch: 117430**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.0039		0.100	0.100		mg/L		96	70 - 130	0	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-116938/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117299 — **Prep Batch: 116938**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/09/17 17:25	05/12/17 16:17	1

Lab Sample ID: LCS 550-116938/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117299 — **Prep Batch: 116938**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.0100	0.00940		mg/L		94	85 - 115		

Lab Sample ID: LCSD 550-116938/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117299 — **Prep Batch: 116938**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			0.0100	0.00997		mg/L		100	85 - 115	6	20

Lab Sample ID: 550-82219-1 MS — **Client Sample ID: FC-CCR-MW7-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117299 — **Prep Batch: 116938**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	ND		0.0100	0.00980		mg/L		98	70 - 130		

Lab Sample ID: 550-82219-1 MSD — **Client Sample ID: FC-CCR-MW7-5317**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117299 — **Prep Batch: 116938**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		0.0100	0.00977		mg/L		98	70 - 130	0	20

Lab Sample ID: MB 550-117104/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117278 — **Prep Batch: 117104**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		05/11/17 11:17	05/12/17 12:30	1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 550-117104/2-A
Matrix: Water
Analysis Batch: 117278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117104

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.0100	0.0114		mg/L		114	85 - 115		

Lab Sample ID: LCSD 550-117104/3-A
Matrix: Water
Analysis Batch: 117278

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117104

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			0.0100	0.0103		mg/L		103	85 - 115	11	20

Lab Sample ID: 550-82217-A-1-H MS
Matrix: Water
Analysis Batch: 117278

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 117104

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	ND		0.0100	0.00824		mg/L		82	70 - 130		

Lab Sample ID: 550-82217-A-1-I MSD
Matrix: Water
Analysis Batch: 117278

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 117104

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		0.0100	0.00768		mg/L		77	70 - 130	7	20

QC Association Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

HPLC/IC

Analysis Batch: 119353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	300.0	
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	300.0	
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	300.0	
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	300.0	
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	300.0	
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	300.0	
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	300.0	
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	300.0	
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	300.0	
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	300.0	
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	300.0	
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	300.0	
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	300.0	
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	300.0	
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	300.0	
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	300.0	
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	300.0	
MB 550-119353/34	Method Blank	Total/NA	Water	300.0	
LCS 550-119353/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-119353/38	Lab Control Sample Dup	Total/NA	Water	300.0	
550-82219-12 MS	FC-CCR-MW66-5117	Total/NA	Water	300.0	
550-82219-12 MSD	FC-CCR-MW66-5117	Total/NA	Water	300.0	

Analysis Batch: 119494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	300.0	
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	300.0	
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	300.0	
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	300.0	
MB 550-119494/37	Method Blank	Total/NA	Water	300.0	
LCS 550-119494/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-119494/41	Lab Control Sample Dup	Total/NA	Water	300.0	
550-82219-21 MS	FC-CCR-MW75-5317	Total/NA	Water	300.0	
550-82219-21 MSD	FC-CCR-MW75-5317	Total/NA	Water	300.0	

Metals

Prep Batch: 116630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	200.7	
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	200.7	
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	200.7	
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	200.7	
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	200.7	
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	200.7	
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	200.7	
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	200.7	
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	200.7	
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	200.7	
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	200.7	

Metals (Continued)

Prep Batch: 116630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.7	
MB 550-116630/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-116630/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-116630/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-82216-B-14-A MS	Matrix Spike	Total/NA	Water	200.7	
550-82216-B-14-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 116646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	200.8	
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	200.8	
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	200.8	
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	200.8	
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	200.8	
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	200.8	
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	200.8	
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	200.8	
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	200.8	
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	200.8	
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.8	
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.8	
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.8	
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.8	
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.8	
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.8	
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.8	
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.8	
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	200.8	
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.8	
MB 550-116646/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-116646/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-116646/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-82219-2 MS	FC-CCR-MW8-5317	Total/NA	Water	200.8	
550-82219-2 MSD	FC-CCR-MW8-5317	Total/NA	Water	200.8	

Prep Batch: 116875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.7	
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.7	
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.7	
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.7	
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.7	
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.7	
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.7	
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	200.7	
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.7	
MB 550-116875/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-116875/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-116875/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-82217-A-1-E MS	Matrix Spike	Total/NA	Water	200.7	
550-82217-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

QC Association Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Prep Batch: 116938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	245.1	
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	245.1	
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	245.1	
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	245.1	
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	245.1	
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	245.1	
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	245.1	
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	245.1	
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	245.1	
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	245.1	
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	245.1	
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	245.1	
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	245.1	
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	245.1	
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	245.1	
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	245.1	
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	245.1	
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	245.1	
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	245.1	
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	245.1	
MB 550-116938/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-116938/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-116938/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-82219-1 MS	FC-CCR-MW7-5317	Total/NA	Water	245.1	
550-82219-1 MSD	FC-CCR-MW7-5317	Total/NA	Water	245.1	

Analysis Batch: 116976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	200.7 Rev 4.4	116630
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.7 Rev 4.4	116630
MB 550-116630/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	116630
LCS 550-116630/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	116630
LCSD 550-116630/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	116630
550-82216-B-14-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	116630
550-82216-B-14-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	116630

Analysis Batch: 117082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.7 Rev 4.4	116875

Metals (Continued)

Analysis Batch: 117082 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	200.7 Rev 4.4	116875
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.7 Rev 4.4	116875
MB 550-116875/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	116875
LCS 550-116875/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	116875
LCSD 550-116875/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	116875
550-82217-A-1-E MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	116875
550-82217-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	116875

Prep Batch: 117104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	245.1	
MB 550-117104/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-117104/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-117104/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-82217-A-1-H MS	Matrix Spike	Total/NA	Water	245.1	
550-82217-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 117278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	245.1	117104
MB 550-117104/1-A	Method Blank	Total/NA	Water	245.1	117104
LCS 550-117104/2-A	Lab Control Sample	Total/NA	Water	245.1	117104
LCSD 550-117104/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	117104
550-82217-A-1-H MS	Matrix Spike	Total/NA	Water	245.1	117104
550-82217-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	117104

Analysis Batch: 117299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	245.1	116938
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	245.1	116938
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	245.1	116938
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	245.1	116938
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	245.1	116938
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	245.1	116938
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	245.1	116938
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	245.1	116938
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	245.1	116938
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	245.1	116938
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	245.1	116938
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	245.1	116938
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	245.1	116938
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	245.1	116938
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	245.1	116938
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	245.1	116938
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	245.1	116938
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	245.1	116938
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	245.1	116938
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	245.1	116938
MB 550-116938/1-A	Method Blank	Total/NA	Water	245.1	116938

Metals (Continued)

Analysis Batch: 117299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 550-116938/2-A	Lab Control Sample	Total/NA	Water	245.1	116938
LCSD 550-116938/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	116938
550-82219-1 MS	FC-CCR-MW7-5317	Total/NA	Water	245.1	116938
550-82219-1 MSD	FC-CCR-MW7-5317	Total/NA	Water	245.1	116938

Analysis Batch: 117317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	200.8 LL	116646
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	200.8 LL	116646
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	200.8 LL	116646
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	200.8 LL	116646
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	200.8 LL	116646
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	200.8 LL	116646
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	200.8 LL	116646
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	200.8 LL	116646
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	200.8 LL	116646
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	200.8 LL	116646
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.8 LL	116646
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.8 LL	116646
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.8 LL	116646
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.8 LL	116646
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.8 LL	116646
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.8 LL	116646
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.8 LL	116646
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.8 LL	116646
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.8 LL	116646
MB 550-116646/1-A	Method Blank	Total/NA	Water	200.8 LL	116646
LCS 550-116646/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	116646
LCSD 550-116646/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	116646
550-82219-2 MS	FC-CCR-MW8-5317	Total/NA	Water	200.8 LL	116646
550-82219-2 MSD	FC-CCR-MW8-5317	Total/NA	Water	200.8 LL	116646

Analysis Batch: 117325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.8 LL	116646
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.8 LL	116646
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.8 LL	116646
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.8 LL	116646
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.8 LL	116646
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.8 LL	116646
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.8 LL	116646
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.8 LL	116646
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	200.8 LL	116646
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.8 LL	116646
MB 550-116646/1-A	Method Blank	Total/NA	Water	200.8 LL	116646
LCS 550-116646/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	116646
LCSD 550-116646/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	116646
550-82219-2 MS	FC-CCR-MW8-5317	Total/NA	Water	200.8 LL	116646
550-82219-2 MSD	FC-CCR-MW8-5317	Total/NA	Water	200.8 LL	116646

Metals (Continued)

Prep Batch: 117429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	200.8	
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	200.8	
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	200.8	
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	200.8	
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	200.8	
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	200.8	
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	200.8	
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	200.8	
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	200.8	
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	200.8	
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	200.8	
MB 550-117429/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-117429/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-117429/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-81013-D-3-E MS	Matrix Spike	Total/NA	Water	200.8	
550-81013-D-3-F MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 117430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.8	
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.8	
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.8	
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.8	
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.8	
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.8	
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.8	
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.8	
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	200.8	
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.8	
MB 550-117430/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-117430/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-117430/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-82503-A-1-C MS	Matrix Spike	Total/NA	Water	200.8	
550-82503-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 117578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-1	FC-CCR-MW7-5317	Total/NA	Water	200.8 LL	117429
550-82219-2	FC-CCR-MW8-5317	Total/NA	Water	200.8 LL	117429
550-82219-3	FC-CCR-MW49A-5317	Total/NA	Water	200.8 LL	117429
550-82219-4	FC-CCR-MW60-5317	Total/NA	Water	200.8 LL	117429
550-82219-5	FC-CCR-MW61-5317	Total/NA	Water	200.8 LL	117429
550-82219-6	FC-CCR-MW62-5117	Total/NA	Water	200.8 LL	117429
550-82219-7	FC-CCR-MW63-5217	Total/NA	Water	200.8 LL	117429
550-82219-8	FC-CCR-MW64-5217	Total/NA	Water	200.8 LL	117429
550-82219-9	FC-CCR-FD02-5217	Total/NA	Water	200.8 LL	117429
550-82219-10	FC-CCR-MW65-5117	Total/NA	Water	200.8 LL	117429
550-82219-11	FC-CCR-FD01-5117	Total/NA	Water	200.8 LL	117429
MB 550-117429/1-A	Method Blank	Total/NA	Water	200.8 LL	117429
LCS 550-117429/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	117429
LCSD 550-117429/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	117429

Metals (Continued)

Analysis Batch: 117578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-81013-D-3-E MS	Matrix Spike	Total/NA	Water	200.8 LL	117429
550-81013-D-3-F MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	117429

Analysis Batch: 117628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-82219-12	FC-CCR-MW66-5117	Total/NA	Water	200.8 LL	117430
550-82219-13	FC-CCR-MW67-5217	Total/NA	Water	200.8 LL	117430
550-82219-14	FC-CCR-MW68-5217	Total/NA	Water	200.8 LL	117430
550-82219-15	FC-CCR-MW69-5217	Total/NA	Water	200.8 LL	117430
550-82219-16	FC-CCR-MW70-5117	Total/NA	Water	200.8 LL	117430
550-82219-17	FC-CCR-MW71-5217	Total/NA	Water	200.8 LL	117430
550-82219-18	FC-CCR-MW72-5217	Total/NA	Water	200.8 LL	117430
550-82219-19	FC-CCR-MW73-5217	Total/NA	Water	200.8 LL	117430
550-82219-20	FC-CCR-MW74-5217	Total/NA	Water	200.8 LL	117430
550-82219-21	FC-CCR-MW75-5317	Total/NA	Water	200.8 LL	117430
MB 550-117430/1-A	Method Blank	Total/NA	Water	200.8 LL	117430
LCS 550-117430/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	117430
LCSD 550-117430/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	117430
550-82503-A-1-C MS	Matrix Spike	Total/NA	Water	200.8 LL	117430
550-82503-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	117430

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW7-5317 — Lab Sample ID: 550-82219-1

Date Collected: 05/03/17 11:52 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	119353	06/07/17 07:21	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 01:55	CJM	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:26	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:25	JTG	TAL PHX

Client Sample ID: FC-CCR-MW8-5317 — Lab Sample ID: 550-82219-2

Date Collected: 05/03/17 10:50 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 07:39	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:01	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:04	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:33	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:26	JTG	TAL PHX

Client Sample ID: FC-CCR-MW49A-5317 — Lab Sample ID: 550-82219-3

Date Collected: 05/03/17 13:04 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 07:58	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:07	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:11	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:36	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:28	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW60-5317 — Lab Sample ID: 550-82219-4

Date Collected: 05/03/17 08:40
Date Received: 05/04/17 12:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	119353	06/07/17 08:16	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:13	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:14	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:38	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:29	JTG	TAL PHX

Client Sample ID: FC-CCR-MW61-5317 — Lab Sample ID: 550-82219-5

Date Collected: 05/03/17 09:21
Date Received: 05/04/17 12:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 08:35	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:19	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:16	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:40	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:31	JTG	TAL PHX

Client Sample ID: FC-CCR-MW62-5117 — Lab Sample ID: 550-82219-6

Date Collected: 05/01/17 14:23
Date Received: 05/04/17 12:30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 08:53	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:25	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:19	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:43	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:33	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW63-5217 — Lab Sample ID: 550-82219-7

Date Collected: 05/02/17 08:49 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 09:11	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:31	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:23	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:45	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:34	JTG	TAL PHX

Client Sample ID: FC-CCR-MW64-5217 — Lab Sample ID: 550-82219-8

Date Collected: 05/02/17 07:59 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 10:07	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:37	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:26	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:48	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:36	JTG	TAL PHX

Client Sample ID: FC-CCR-FD02-5217 — Lab Sample ID: 550-82219-9

Date Collected: 05/02/17 07:59 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 10:25	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:40	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:28	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:50	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:37	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW65-5117 — Lab Sample ID: 550-82219-10

Date Collected: 05/01/17 13:27 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 10:43	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:42	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:30	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:52	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:39	JTG	TAL PHX

Client Sample ID: FC-CCR-FD01-5117 — Lab Sample ID: 550-82219-11

Date Collected: 05/01/17 13:27 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	119353	06/07/17 11:02	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:54	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:33	TEK	TAL PHX
Total/NA	Prep	200.8			117429	05/15/17 18:58	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		1	117578	05/16/17 20:55	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:44	JTG	TAL PHX

Client Sample ID: FC-CCR-MW66-5117 — Lab Sample ID: 550-82219-12

Date Collected: 05/01/17 15:05 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 11:20	JAE	TAL PHX
Total/NA	Prep	200.7			116630	05/05/17 07:16	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	116976	05/10/17 02:56	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:40	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 11:45	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:23	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:45	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW67-5217 — Lab Sample ID: 550-82219-13

Date Collected: 05/02/17 09:28 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 12:15	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 19:35	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:42	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 11:52	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:26	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:47	JTG	TAL PHX

Client Sample ID: FC-CCR-MW68-5217 — Lab Sample ID: 550-82219-14

Date Collected: 05/02/17 10:04 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 12:34	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 19:41	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:45	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 11:55	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:28	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:48	JTG	TAL PHX

Client Sample ID: FC-CCR-MW69-5217 — Lab Sample ID: 550-82219-15

Date Collected: 05/02/17 10:36 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 12:52	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 19:47	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:47	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 11:57	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:30	TEK	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW69-5217 — Lab Sample ID: 550-82219-15

Date Collected: 05/02/17 10:36 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:50	JTG	TAL PHX

Client Sample ID: FC-CCR-MW70-5117 — Lab Sample ID: 550-82219-16

Date Collected: 05/01/17 15:47 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	119353	06/07/17 13:47	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 19:53	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:52	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 12:00	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:33	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:51	JTG	TAL PHX

Client Sample ID: FC-CCR-MW71-5217 — Lab Sample ID: 550-82219-17

Date Collected: 05/02/17 13:00 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119353	06/07/17 14:06	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 20:05	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:54	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 12:02	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:35	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:53	JTG	TAL PHX

Client Sample ID: FC-CCR-MW72-5217 — Lab Sample ID: 550-82219-18

Date Collected: 05/02/17 13:34 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119494	06/08/17 07:52	JAE	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW72-5217 — Lab Sample ID: 550-82219-18

Date Collected: 05/02/17 13:34 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 20:11	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:57	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 12:04	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:42	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:54	JTG	TAL PHX

Client Sample ID: FC-CCR-MW73-5217 — Lab Sample ID: 550-82219-19

Date Collected: 05/02/17 14:09 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	119494	06/08/17 08:10	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 20:16	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 16:59	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 12:07	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:45	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:56	JTG	TAL PHX

Client Sample ID: FC-CCR-MW74-5217 — Lab Sample ID: 550-82219-20

Date Collected: 05/02/17 14:48 — **Matrix: Water**
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		2	119494	06/08/17 08:29	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 20:22	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 12:09	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:47	TEK	TAL PHX
Total/NA	Prep	245.1			116938	05/09/17 17:25	EXZ	TAL PHX
Total/NA	Analysis	245.1		1	117299	05/12/17 16:58	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Client Sample ID: FC-CCR-MW75-5317

Lab Sample ID: 550-82219-21

Date Collected: 05/03/17 09:50
Matrix: Water
Date Received: 05/04/17 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	119494	06/08/17 08:47	JAE	TAL PHX
Total/NA	Prep	200.7			116875	05/09/17 11:07	EXZ	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	117082	05/10/17 20:28	CJM	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	117317	05/13/17 17:04	TEK	TAL PHX
Total/NA	Prep	200.8			116646	05/05/17 09:39	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	117325	05/14/17 12:12	TEK	TAL PHX
Total/NA	Prep	200.8			117430	05/15/17 19:02	EXZ	TAL PHX
Total/NA	Analysis	200.8 LL		4	117628	05/17/17 11:49	TEK	TAL PHX
Total/NA	Prep	245.1			117104	05/11/17 11:17	JTG	TAL PHX
Total/NA	Analysis	245.1		1	117278	05/12/17 13:14	JTG	TAL PHX

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Accreditation/Certification Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Laboratory: TestAmerica Phoenix

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0728	06-09-18

Method Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-82219-1
SDG: Cholla

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL PHX
200.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL PHX
200.8 LL	Metals (ICP/MS)	EPA	TAL PHX
245.1	Mercury (CVAA)	EPA	TAL PHX

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

TestAmerica Phoenix
4625 E Cotton Center Blvd
Suite 189
Phoenix, AZ 85040
phone 602.437.3340 fax 602.454.9303

Chain of Custody Record

82219

Regulatory Program: CCR

TestAmerica Laboratories, Inc.

6/13/2017

Client Contact	Doug Lavarnway	Doug Lavarnway	5/4/2017
APS Four Corners	928-587-0319	Lab Contact:	Carrier:
End of County Road 6675	**Analysis Turnaround Time**		
Fruitland, New Mexico 87416			
(928) 587-0319 Phone	TAT if different from Below _____		
(xxx) xxx-xxxx FAX			
Project Name: CCR			
Site: Cholla			
P O #			

COC No: 3 of 6 COCs

Sampler:

For Lab Use Only:
Walk-in Client:
Lab Sampling:

Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	EPA 200.7 (Be, Li)	200.8 (Sb, As, Ba, Cd, Cr, Co, Pb, Mo, Se, Tl)	EPA 245.1 (Hg)	EPA 300.0 (F)	Sample Specific Notes:
FC-CCR-MW7-5317 -01	5/3/2017	1152	G	W	2	N	x	x	x	x	x	
FC-CCR-MW8-5317 -02	5/3/2017	1050	G	W	2	N	x	x	x	x	x	
FC-CCR-MW49A-5317 -03	5/3/2017	1304	G	W	2	N	x	x	x	x	x	
FC-CCR-MW60-5317 -04	5/3/2017	840	G	W	2	N	x	x	x	x	x	
FC-CCR-MW61-5317 -05	5/3/2017	921	G	W	2	N	x	x	x	x	x	
FC-CCR-MW62-5117 -06	5/1/2017	1423	G	W	2	N	x	x	x	x	x	
FC-CCR-MW63-5217 -07	5/2/2017	849	G	W	2	N	x	x	x	x	x	
FC-CCR-MW64-5217 -08	5/2/2017	759	G	W	2	N	x	x	x	x	x	
FC-CCR-FD02-5217 -09	5/2/2017	759	G	W	2	N	x	x	x	x	x	
FC-CCR-MW65-5117 -10	5/1/2017	1327	G	W	2	N	x	x	x	x	x	
FC-CCR-FD01-5117 -11	5/1/2017	1327	G	W	2	N	x	x	x	x	x	

550-82219 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

(0.8°C, 3.6°C, 1.7°C, 1.6°C, 1.4°C)

Custody Seals Intact:	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by: Doug Lavarnway	Company: APS	Date/Time: 5/4 800	Received by: K Rogers	Company: Red J	Date/Time: 5/4/17 8:00a
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 5-4-17 1230

Form No. CA-C-WI-002, Rev. 4.2, dated 04/02/2013

TestAmerica Phoenix
4625 E Cotton Center Blvd
Suite 189
Phoenix, AZ 85040
phone 602.437.3340 fax 602.454.9303

Chain of Custody Record

82219

Regulatory Program: CCR

TestAmerica Laboratories, Inc.

Client Contact	Doug Lavarnway	Doug Lavarnway	5/4/2017
APS Four Corners	928-587-0319	Lab Contact:	Carrier:
End of County Road 6675	**Analysis Turnaround Time**		
Fruitland, New Mexico 87416			
(928) 587-0319 Phone	TAT if different from Below _____		
(xxx) xxx-xxxx FAX			
Project Name: CCR			
Site: Cholla			
P O #			

COC No: 4 of 6 COCs
Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 200.7 (Be, Li)	200.8 (Sb, As, Ba, Cd, Cr, Co, Pb, Mo, Se, Tl)	EPA 245.1 (Hg)	EPA 300.0 (F)	Sample Specific Notes:
FC-CCR-MW66-5117 -12	5/1/2017	1505	G	W	2	N	x	x	x	x	x	
FC-CCR-MW67-5217 -13	5/2/2017	928	G	W	2	N	x	x	x	x	x	
FC-CCR-MW68-5217 -14	5/2/2017	1004	G	W	2	N	x	x	x	x	x	
FC-CCR-MW69-5217 -15	5/2/2017	1036	G	W	2	N	x	x	x	x	x	
FC-CCR-MW70-5117 -16	5/1/2017	1547	G	W	2	N	x	x	x	x	x	
FC-CCR-MW71-5217 -17	5/2/2017	1300	G	W	2	N	x	x	x	x	x	
FC-CCR-MW72-5217 -18	5/2/2017	1334	G	W	2	N	x	x	x	x	x	
FC-CCR-MW73-5217 -19	5/2/2017	1409	G	W	2	N	x	x	x	x	x	
FC-CCR-MW74-5217 -20	5/2/2017	1448	G	W	2	N	x	x	x	x	x	
FC-CCR-MW75-5317 -21	5/3/2017	950	G	W	2	N	x	x	x	x	x	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Doug Lavarnway	APS	5/4 800	D Rogers	Red J	5/4/17 8:00a
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 5-4-17 1230

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/13/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 440-111288.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com	State of Origin: New Mexico	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Arizona		Job #: 550-82219-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 5/12/2017			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: CCR	Project #: 55002330			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFMS/ (MOD) Fluoride	200.7_CWA/200.7_P_TOT Be, Li	200.8_CWA_LL/200.8_P_TOT 200.8	245.1_CWA/245.1_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
FC-CCR-MW7-5317 (550-82219-1)	5/3/17	11:52 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW8-5317 (550-82219-2)	5/3/17	10:50 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW49A-5317 (550-82219-3)	5/3/17	13:04 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW60-5317 (550-82219-4)	5/3/17	08:40 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW61-5317 (550-82219-5)	5/3/17	09:21 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW62-5117 (550-82219-6)	5/1/17	14:23 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW63-5217 (550-82219-7)	5/2/17	08:49 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW64-5217 (550-82219-8)	5/2/17	07:59 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-FD02-5217 (550-82219-9)	5/2/17	07:59 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Vu Bank	6/1/17 17:00	TAIC			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				6/2/17 9:20	TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.5

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/13/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 440-111288.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com	State of Origin: New Mexico	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Arizona		Job #: 550-82219-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 5/12/2017			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: CCR	Project #: 55002330			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFMS/ (MOD) Fluoride	200.7_CWA/200.7_P_TOT Be, Li	200.8_CWA_LL/200.8_P_TOT 200.8	245.1_CWA/245.1_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
FC-CCR-MW65-5117 (550-82219-10)	5/1/17	13:27 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-FD01-5117 (550-82219-11)	5/1/17	13:27 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW66-5117 (550-82219-12)	5/1/17	15:05 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW67-5217 (550-82219-13)	5/2/17	09:28 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW68-5217 (550-82219-14)	5/2/17	10:04 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW69-5217 (550-82219-15)	5/2/17	10:36 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW70-5117 (550-82219-16)	5/1/17	15:47 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW71-5217 (550-82219-17)	5/2/17	13:00 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW72-5217 (550-82219-18)	5/2/17	13:34 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Vu B. Anh	6/1/17 12:00	TAI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Fed Ex	Date/Time:	Company	Received by:	Date/Time: 6/2/17 9:20	Company TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: yes	Cooler Temperature(s) °C and Other Remarks: Fed Ex

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/13/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 440-111288.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com	State of Origin: New Mexico	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Arizona		Job #: 550-82219-1
Address: 4625 East Cotton Ctr Blvd, Suite 189,	Due Date Requested: 5/12/2017			
City: Phoenix	TAT Requested (days):			
State, Zip: AZ, 85040				
Phone: 602-437-3340(Tel) 602-454-9303(Fax)	PO #:			
Email:	WO #:			
Project Name: CCR	Project #: 55002330			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFMS/ (MOD) Fluoride	200.7_CWA/200.7_P_TOT Be, Li	200.8_CWA_LL/200.8_P_TOT 200.8	245.1_CWA/245.1_Prep Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
FC-CCR-MW73-5217 (550-82219-19)	5/2/17	14:09 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW74-5217 (550-82219-20)	5/2/17	14:48 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all
FC-CCR-MW75-5317 (550-82219-21)	5/3/17	09:50 Mountain		Water			X	X	X	X	1	Watch Dilutions. Fluoride needs to meet 4.0 mg/l MCL., Do not dilute if at all

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 6/1/17 17:00	Company TA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Fed Ex	Date/Time:	Company	Received by:	Date/Time: 6/2/17 9:20	Company TA
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: YES		Cooler Temperature(s) °C and Other Remarks: 0.9		

TestAmerica Phoenix
4625 East Cotton Ctr Blvd Suite 189
Phoenix, AZ 85040
Phone (602) 437-3340 Fax (602) 454-9303

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 550-17472.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com	State of Origin: New Mexico	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Arizona		Job #: 550-82219-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 5/17/2017			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #			
Email:	WO #			
Project Name: CCR	Project #: 55002330			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Cl, Fl, SO4	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
FC-CCR-MW7-5317 (550-82219-1)	5/3/17	11:52 Mountain		Water			X	1	AZ Sample
FC-CCR-MW8-5317 (550-82219-2)	5/3/17	10:50 Mountain		Water			X	1	AZ Sample
FC-CCR-MW49A-5317 (550-82219-3)	5/3/17	13:04 Mountain		Water			X	1	AZ Sample
FC-CCR-MW60-5317 (550-82219-4)	5/3/17	08:40 Mountain		Water			X	1	AZ Sample
FC-CCR-MW61-5317 (550-82219-5)	5/3/17	09:21 Mountain		Water			X	1	AZ Sample
FC-CCR-MW62-5117 (550-82219-6)	5/1/17	14:23 Mountain		Water			X	1	AZ Sample
FC-CCR-MW63-5217 (550-82219-7)	5/2/17	08:49 Mountain		Water			X	1	AZ Sample
FC-CCR-MW64-5217 (550-82219-8)	5/2/17	07:59 Mountain		Water			X	1	AZ Sample
FC-CCR-FD02-5217 (550-82219-9)	5/2/17	07:59 Mountain		Water			X	1	AZ Sample

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fed: 6215 9624 5304		
Relinquished by: [illegible] 05-17-17	Date/Time: 14:50	Company: TA Phx LAB	Received by: [illegible]	Date/Time: 5/18/17 9:15	Company: TAI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s)°C and Other Remarks: (CS) 1.8/2.3 IR-66

TestAmerica Phoenix
4625 East Cotton Ctr Blvd Suite 189
Phoenix, AZ 85040
Phone (602) 437-3340 Fax (602) 454-9303

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 550-17472.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com	State of Origin: New Mexico	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Arizona		Job #: 550-82219-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 5/17/2017			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: CCR	Project #: 55002330			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Cl, Fl, SO4	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FC-CCR-MW65-5117 (550-82219-10)	5/1/17	13:27 Mountain		Water			X	1	AZ Sample
FC-CCR-FD01-5117 (550-82219-11)	5/1/17	13:27 Mountain		Water			X	1	AZ Sample
FC-CCR-MW66-5117 (550-82219-12)	5/1/17	15:05 Mountain		Water			X	1	AZ Sample
FC-CCR-MW67-5217 (550-82219-13)	5/2/17	09:28 Mountain		Water			X	1	AZ Sample
FC-CCR-MW68-5217 (550-82219-14)	5/2/17	10:04 Mountain		Water			X	1	AZ Sample
FC-CCR-MW69-5217 (550-82219-15)	5/2/17	10:36 Mountain		Water			X	1	AZ Sample
FC-CCR-MW70-5117 (550-82219-16)	5/1/17	15:47 Mountain		Water			X	1	AZ Sample
FC-CCR-MW71-5217 (550-82219-17)	5/2/17	13:00 Mountain		Water			X	1	AZ Sample
FC-CCR-MW72-5217 (550-82219-18)	5/2/17	13:34 Mountain		Water			X	1	AZ Sample

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	05-17-17 14:50	TA PHX LAB	[illegible]	5/18/17 9:15	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s)°C and Other Remarks: (2) 1.8/2.3 IR-66

TestAmerica Phoenix
4625 East Cotton Ctr Blvd Suite 189
Phoenix, AZ 85040
Phone (602) 437-3340 Fax (602) 454-9303

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s).	COC No: 550-17472.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com	State of Origin: New Mexico	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Arizona		Job #: 550-82219-1
Address: 17461 Derian Ave, Suite 100,	Due Date Requested: 5/17/2017			
City: Irvine	TAT Requested (days):			
State, Zip: CA, 92614-5817				
Phone: 949-261-1022(Tel) 949-260-3297(Fax)	PO #:			
Email:	WO #:			
Project Name: CCR	Project #: 55002330			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ (MOD) Cl, Fl, SO4	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
FC-CCR-MW73-5217 (550-82219-19)	5/2/17	14:09 Mountain		Water			X	1	AZ Sample
FC-CCR-MW74-5217 (550-82219-20)	5/2/17	14:48 Mountain		Water			X	1	AZ Sample
FC-CCR-MW75-5317 (550-82219-21)	5/3/17	09:50 Mountain		Water			X	1	AZ Sample

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment.		
Relinquished by: [illegible] 05-17-17	Date/Time: 14:50	Company: TA Phx LAB	Received by: [illegible]	Date/Time: 5/18/17 9:15	Company: TAI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s)°C and Other Remarks: (CL) 1.8/2.3 IR-66		

Login Sample Receipt Checklist

Client: Arizona Public Service Company

Job Number: 550-82219-1
SDG Number: Cholla

Login Number: 82219
List Number: 1
Creator: Gravlin, Andrea

List Source: TestAmerica Phoenix

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.