TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 550-64612-1
Client Project/Site: CCR

For:
Arizona Public Service Company
County Road 6675, Stn 4915
Fruitland, New Mexico 87416

Attn: Doug Lavarnway

Authorized for release by:
8/11/2016 3:57:35 PM

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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: 550-64612-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
D1	Sample required dilution due to matrix.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.

Metals

Qualifier	Qualifier Description
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike was acceptable.
D2	Sample required dilution due to high concentration of analyte.
L5	The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.
D1	Sample required dilution due to matrix.

General Chemistry

Qualifier	Qualifier Description
D2	Sample required dilution due to high concentration of analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 550-64612-1

Laboratory: TestAmerica Phoenix

Narrative

Job Narrative
550-64612-1

Comments
No additional comments.

Receipt
The samples were received on 6/9/2016 6:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.0º C, 3.1º C, 4.5º C and 4.7º C.

Receipt Exceptions
The following samples were submitted for analysis; however, they were not listed on the Chain-of-Custody (COC): FC-CCR-DUP-616 (550-64612-17), FC-CCR-EQB-616 (550-64612-18), FC-CCR-DUP-616 (550-64612-35) and FC-CCR-EQB-616 (550-64612-36). The samples were logged in for each sample set.

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

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

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

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

Subcontract Work
Method Radium 226/228: This method was subcontracted to Radiation Safety. The subcontract laboratory certification is different from that of the facility issuing the final report.

Sample Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
550-64612-1	FC-CCR-MW7-616	Water	06/06/16 15:01	06/09/16 06:45
550-64612-2	FC-CCR-MW8-616	Water	06/07/16 08:05	06/09/16 06:45
550-64612-3	FC-CCR-MW49A-616	Water	06/07/16 09:18	06/09/16 06:45
550-64612-4	FC-CCR-MW60-616	Water	06/06/16 13:37	06/09/16 06:45
550-64612-5	FC-CCR-MW61-616	Water	06/06/16 14:22	06/09/16 06:45
550-64612-6	FC-CCR-MW62-616	Water	06/05/16 12:22	06/09/16 06:45
550-64612-7	FC-CCR-MW63-616	Water	06/05/16 14:39	06/09/16 06:45
550-64612-8	FC-CCR-MW64-616	Water	06/05/16 14:03	06/09/16 06:45
550-64612-9	FC-CCR-MW65-616	Water	06/05/16 11:45	06/09/16 06:45
550-64612-10	FC-CCR-MW66-616	Water	06/05/16 09:17	06/09/16 06:45
550-64612-11	FC-CCR-MW67-616	Water	06/06/16 08:51	06/09/16 06:45
550-64612-12	FC-CCR-MW68-616	Water	06/05/16 15:30	06/09/16 06:45
550-64612-13	FC-CCR-MW69-616	Water	06/06/16 08:10	06/09/16 06:45
550-64612-14	FC-CCR-MW70-616	Water	06/05/16 10:48	06/09/16 06:45
550-64612-15	FC-CCR-MW71-616	Water	06/06/16 12:40	06/09/16 06:45
550-64612-16	FC-CCR-MW72-616	Water	06/06/16 11:52	06/09/16 06:45
550-64612-17	FC-CCR-DUP-616	Water	06/05/16 00:00	06/09/16 06:45
550-64612-18	FC-CCR-EQB-616	Water	06/05/16 00:00	06/09/16 06:45
550-64612-19	FC-CCR-MW7-616	Water	06/06/16 15:01	06/09/16 06:45
550-64612-20	FC-CCR-MW8-616	Water	06/07/16 08:05	06/09/16 06:45
550-64612-21	FC-CCR-MW49A-616	Water	06/07/16 09:18	06/09/16 06:45
550-64612-22	FC-CCR-MW60-616	Water	06/06/16 13:37	06/09/16 06:45
550-64612-23	FC-CCR-MW61-616	Water	06/06/16 14:22	06/09/16 06:45
550-64612-24	FC-CCR-MW62-616	Water	06/05/16 12:22	06/09/16 06:45
550-64612-25	FC-CCR-MW63-616	Water	06/05/16 14:39	06/09/16 06:45
550-64612-26	FC-CCR-MW64-616	Water	06/05/16 14:03	06/09/16 06:45
550-64612-27	FC-CCR-MW65-616	Water	06/05/16 11:45	06/09/16 06:45
550-64612-28	FC-CCR-MW66-616	Water	06/05/16 09:17	06/09/16 06:45
550-64612-29	FC-CCR-MW67-616	Water	06/06/16 08:51	06/09/16 06:45
550-64612-30	FC-CCR-MW68-616	Water	06/05/16 15:30	06/09/16 06:45
550-64612-31	FC-CCR-MW69-616	Water	06/06/16 08:10	06/09/16 06:45
550-64612-32	FC-CCR-MW70-616	Water	06/05/16 10:48	06/09/16 06:45
550-64612-33	FC-CCR-MW71-616	Water	06/06/16 12:40	06/09/16 06:45
550-64612-34	FC-CCR-MW72-616	Water	06/06/16 11:52	06/09/16 06:45
550-64612-35	FC-CCR-DUP-616	Water	06/05/16 00:00	06/09/16 06:45
550-64612-36	FC-CCR-EQB-616	Water	06/05/16 00:00	06/09/16 06:45

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW7-616 — Lab Sample ID: 550-64612-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	880	D2	40	mg/L	20		300.0	Total/NA
Fluoride	0.41		0.40	mg/L	1		300.0	Total/NA
Sulfate	6300	D2	400	mg/L	200		300.0	Total/NA
Boron	10		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	380		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	11000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	7.23	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.7	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW8-616 — Lab Sample ID: 550-64612-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1100	D2	40	mg/L	20		300.0	Total/NA
Fluoride	0.70		0.40	mg/L	1		300.0	Total/NA
Sulfate	8600	D2	400	mg/L	200		300.0	Total/NA
Boron	20		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	420		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	15000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	7.03	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.7	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW49A-616 — Lab Sample ID: 550-64612-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	430	D2	40	mg/L	20		300.0	Total/NA
Fluoride	1.1		0.40	mg/L	1		300.0	Total/NA
Sulfate	15000	D2	400	mg/L	200		300.0	Total/NA
Boron	4.4		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	410		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	22000	D2	200	mg/L	1		SM 2540C	Total/NA
pH	7.44	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.0	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW60-616 — Lab Sample ID: 550-64612-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	730	D2	40	mg/L	20		300.0	Total/NA
Fluoride	2.4		0.40	mg/L	1		300.0	Total/NA
Sulfate	6500	D2	400	mg/L	200		300.0	Total/NA
Boron	49		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	410		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	11000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	7.12	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.7	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW61-616 — Lab Sample ID: 550-64612-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	650	D2	40	mg/L	20		300.0	Total/NA
Fluoride	1.2		0.40	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW61-616 (Continued) — Lab Sample ID: 550-64612-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	3500	D2	400	mg/L	200		300.0	Total/NA
Boron	38		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	460		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	5500	D2	100	mg/L	1		SM 2540C	Total/NA
pH	8.62	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.2	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW62-616 — Lab Sample ID: 550-64612-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	140		2.0	mg/L	1		300.0	Total/NA
Fluoride	1.5		0.40	mg/L	1		300.0	Total/NA
Sulfate	3300	D2	200	mg/L	100		300.0	Total/NA
Boron	2.0		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	510		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	5900	D2	100	mg/L	1		SM 2540C	Total/NA
pH	6.86	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	14.9	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW63-616 — Lab Sample ID: 550-64612-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	110		2.0	mg/L	1		300.0	Total/NA
Fluoride	1.9		0.40	mg/L	1		300.0	Total/NA
Sulfate	2500	D2	200	mg/L	100		300.0	Total/NA
Boron	1.4		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	500		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	4400	D2	40	mg/L	1		SM 2540C	Total/NA
pH	7.05	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	14.8	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW64-616 — Lab Sample ID: 550-64612-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	52		2.0	mg/L	1		300.0	Total/NA
Fluoride	1.4		0.40	mg/L	1		300.0	Total/NA
Sulfate	350	D2	40	mg/L	20		300.0	Total/NA
Boron	0.58		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	86		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	800		20	mg/L	1		SM 2540C	Total/NA
pH	7.66	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	14.8	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW65-616 — Lab Sample ID: 550-64612-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	54		2.0	mg/L	1		300.0	Total/NA
Fluoride	2.0		0.40	mg/L	1		300.0	Total/NA
Sulfate	460	D2	40	mg/L	20		300.0	Total/NA
Boron	0.75		0.050	mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW65-616 (Continued) — Lab Sample ID: 550-64612-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Calcium	100		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	1100		20	mg/L	1		SM 2540C	Total/NA
pH	7.41	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.3	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW66-616 — Lab Sample ID: 550-64612-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1300	D2	40	mg/L	20		300.0	Total/NA
Fluoride	20		0.40	mg/L	1		300.0	Total/NA
Sulfate	7000	D2	400	mg/L	200		300.0	Total/NA
Boron	89	D2	0.50	mg/L	10		200.7 Rev 4.4	Total/NA
Calcium	470		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	13000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	7.31	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.2	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW67-616 — Lab Sample ID: 550-64612-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1600	D2	40	mg/L	20		300.0	Total/NA
Fluoride	24	D2	8.0	mg/L	20		300.0	Total/NA
Sulfate	7000	D2	400	mg/L	200		300.0	Total/NA
Boron	90	D2	0.50	mg/L	10		200.7 Rev 4.4	Total/NA
Calcium	490		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	13000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	7.27	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.5	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW68-616 — Lab Sample ID: 550-64612-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1500	D2	40	mg/L	20		300.0	Total/NA
Fluoride	10		0.40	mg/L	1		300.0	Total/NA
Sulfate	8000	D2	400	mg/L	200		300.0	Total/NA
Boron	100	D2	0.50	mg/L	10		200.7 Rev 4.4	Total/NA
Calcium	450		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	15000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	7.05	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.2	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW69-616 — Lab Sample ID: 550-64612-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1400	D2	40	mg/L	20		300.0	Total/NA
Fluoride	13		0.40	mg/L	1		300.0	Total/NA
Sulfate	7600	D2	400	mg/L	200		300.0	Total/NA
Boron	94	D2	0.50	mg/L	10		200.7 Rev 4.4	Total/NA
Calcium	470		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	13000	D2	100	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW69-616 (Continued) — Lab Sample ID: 550-64612-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.47	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.3	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW70-616 — Lab Sample ID: 550-64612-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1200	D2	40	mg/L	20		300.0	Total/NA
Fluoride	2.1		0.40	mg/L	1		300.0	Total/NA
Sulfate	6300	D2	400	mg/L	200		300.0	Total/NA
Boron	89	D2	0.50	mg/L	10		200.7 Rev 4.4	Total/NA
Calcium	480		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	12000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	6.97	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.4	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW71-616 — Lab Sample ID: 550-64612-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	750	D2	40	mg/L	20		300.0	Total/NA
Sulfate	13000	D2	400	mg/L	200		300.0	Total/NA
Boron	0.70		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	460		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	20000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	6.87	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.5	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW72-616 — Lab Sample ID: 550-64612-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	530	D2	40	mg/L	20		300.0	Total/NA
Sulfate	4500	D2	400	mg/L	200		300.0	Total/NA
Boron	0.25		0.050	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	570		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	9500	D2	100	mg/L	1		SM 2540C	Total/NA
pH	6.99	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.2	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-DUP-616 — Lab Sample ID: 550-64612-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1100	D2	200	mg/L	100		300.0	Total/NA
Fluoride	2.2		0.40	mg/L	1		300.0	Total/NA
Sulfate	6300	D2	200	mg/L	100		300.0	Total/NA
Boron	89	D2	0.50	mg/L	10		200.7 Rev 4.4	Total/NA
Calcium	480		2.0	mg/L	1		200.7 Rev 4.4	Total/NA
Total Dissolved Solids	12000	D2	100	mg/L	1		SM 2540C	Total/NA
pH	6.94	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	15.7	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-EQB-616 — Lab Sample ID: 550-64612-18

This Detection Summary does not include radiochemical test results.

Client Sample ID: FC-CCR-EQB-616 (Continued) — Lab Sample ID: 550-64612-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.36	H5	1.68	SU	1		SM 4500 H+ B	Total/NA
Temperature	16.4	H5	0.100	Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: FC-CCR-MW7-616 — Lab Sample ID: 550-64612-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.40		0.40	mg/L	1		300.0	Total/NA
Lithium	0.94		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00031		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.00075		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.017		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0020		0.00050	mg/L	1		200.8 LL	Total/NA
Lead	0.00082		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0046		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.0026		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00022		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW8-616 — Lab Sample ID: 550-64612-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.68		0.40	mg/L	1		300.0	Total/NA
Lithium	1.1		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00054		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.00058		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.038		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00020		0.00010	mg/L	1		200.8 LL	Total/NA
Chromium	0.0016		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0023		0.00050	mg/L	1		200.8 LL	Total/NA
Lead	0.0014		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.018		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.0013		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00014		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW49A-616 — Lab Sample ID: 550-64612-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.86		0.40	mg/L	1		300.0	Total/NA
Lithium	0.90		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00035		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0013		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.028		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00012		0.00010	mg/L	1		200.8 LL	Total/NA
Chromium	0.00091		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0019		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.069		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.0018		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.0012		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW60-616 — Lab Sample ID: 550-64612-22

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW60-616 (Continued) — Lab Sample ID: 550-64612-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.5		0.40	mg/L	1		300.0	Total/NA
Lithium	0.76		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00016		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.00099		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.024		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00055		0.00010	mg/L	1		200.8 LL	Total/NA
Chromium	0.0014		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.14		0.00050	mg/L	1		200.8 LL	Total/NA
Lead	0.0021		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.041		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.00067		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00012		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW61-616 — Lab Sample ID: 550-64612-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.3		0.40	mg/L	1		300.0	Total/NA
Lithium	0.39		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00023		0.00010	mg/L	1		200.8 LL	Total/NA
Barium	0.015		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00094		0.00010	mg/L	1		200.8 LL	Total/NA
Cobalt	0.012		0.00050	mg/L	1		200.8 LL	Total/NA
Lead	0.00080		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.077		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.00096		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00014		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW62-616 — Lab Sample ID: 550-64612-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.4		0.40	mg/L	1		300.0	Total/NA
Antimony	0.00011		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.00062		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.027		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0062		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0030		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW63-616 — Lab Sample ID: 550-64612-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.9		0.40	mg/L	1		300.0	Total/NA
Antimony	0.00013		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.00059		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.020		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0054		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0025		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW64-616 — Lab Sample ID: 550-64612-26

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW64-616 (Continued) — Lab Sample ID: 550-64612-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.5		0.40	mg/L	1		300.0	Total/NA
Barium	0.027		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0012		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0050		0.00050	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW65-616 — Lab Sample ID: 550-64612-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	1.9		0.40	mg/L	1		300.0	Total/NA
Barium	0.014		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-MW66-616 — Lab Sample ID: 550-64612-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	20		0.40	mg/L	1		300.0	Total/NA
Lithium	0.28		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.00067		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.016		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.00074		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0078		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.013		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.0016		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00060		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW67-616 — Lab Sample ID: 550-64612-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	24	D2	4.0	mg/L	10		300.0	Total/NA
Lithium	0.30		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00014		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0030		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.018		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0025		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.041		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.044		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00031		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW68-616 — Lab Sample ID: 550-64612-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	10		0.40	mg/L	1		300.0	Total/NA
Lithium	0.27		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00011		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0032		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.0099		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.00073		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0042		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.010		0.00050	mg/L	1		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: 550-64612-1

Client Sample ID: FC-CCR-MW68-616 (Continued) — Lab Sample ID: 550-64612-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.11		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00066		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW69-616 — Lab Sample ID: 550-64612-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	13		0.40	mg/L	1		300.0	Total/NA
Lithium	0.27		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00021		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0037		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.015		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0027		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.015		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.018		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00022		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW70-616 — Lab Sample ID: 550-64612-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.2		0.40	mg/L	1		300.0	Total/NA
Lithium	0.31		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00011		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0048		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.012		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.00063		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0051		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0060		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.17		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00028		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW71-616 — Lab Sample ID: 550-64612-33

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.41		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00012		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0069		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.020		0.00050	mg/L	1		200.8 LL	Total/NA
Cadmium	0.00015		0.00010	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0041		0.00050	mg/L	1		200.8 LL	Total/NA
Lead	0.00073		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0014		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.28		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00043		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-MW72-616 — Lab Sample ID: 550-64612-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.00027	D1	0.00020	mg/L	2		200.8 LL	Total/NA
Arsenic	0.0084		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.051	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: 550-64612-1

Client Sample ID: FC-CCR-MW72-616 (Continued) — Lab Sample ID: 550-64612-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.00060		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0029		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0052	D1	0.0010	mg/L	2		200.8 LL	Total/NA
Selenium	0.39		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00058	D1	0.00020	mg/L	2		200.8 LL	Total/NA

Client Sample ID: FC-CCR-DUP-616 — Lab Sample ID: 550-64612-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	2.1		0.40	mg/L	1		300.0	Total/NA
Lithium	0.32		0.20	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.00011		0.00010	mg/L	1		200.8 LL	Total/NA
Arsenic	0.0044		0.00050	mg/L	1		200.8 LL	Total/NA
Barium	0.013		0.00050	mg/L	1		200.8 LL	Total/NA
Chromium	0.00084		0.00050	mg/L	1		200.8 LL	Total/NA
Cobalt	0.0051		0.00050	mg/L	1		200.8 LL	Total/NA
Molybdenum	0.0060		0.00050	mg/L	1		200.8 LL	Total/NA
Selenium	0.16		0.00050	mg/L	1		200.8 LL	Total/NA
Thallium	0.00027		0.00010	mg/L	1		200.8 LL	Total/NA

Client Sample ID: FC-CCR-EQB-616 — Lab Sample ID: 550-64612-36

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00071		0.00050	mg/L	1		200.8 LL	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: 550-64612-1

Client Sample ID: FC-CCR-MW7-616

Lab Sample ID: 550-64612-1
Date Collected: 06/06/16 15:01
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	880	D2	40	mg/L			06/15/16 23:06	20
Fluoride	0.41		0.40	mg/L			06/15/16 22:38	1
Sulfate	6300	D2	400	mg/L			06/20/16 04:16	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10		0.050	mg/L		06/10/16 08:47	06/13/16 21:23	1
Calcium	380		2.0	mg/L		06/10/16 08:47	06/13/16 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000	D2	100	mg/L			06/10/16 17:32	1
pH	7.23	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.7	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW8-616

Lab Sample ID: 550-64612-2
Date Collected: 06/07/16 08:05
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100	D2	40	mg/L			06/16/16 00:01	20
Fluoride	0.70		0.40	mg/L			06/15/16 23:33	1
Sulfate	8600	D2	400	mg/L			06/20/16 04:43	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	20		0.050	mg/L		06/10/16 08:47	06/13/16 21:28	1
Calcium	420		2.0	mg/L		06/10/16 08:47	06/13/16 21:28	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15000	D2	100	mg/L			06/13/16 15:44	1
pH	7.03	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.7	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW49A-616

Lab Sample ID: 550-64612-3
Date Collected: 06/07/16 09:18
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	430	D2	40	mg/L			06/16/16 01:50	20
Fluoride	1.1		0.40	mg/L			06/16/16 00:28	1
Sulfate	15000	D2	400	mg/L			06/20/16 05:10	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.4		0.050	mg/L		06/10/16 08:47	06/13/16 21:34	1
Calcium	410		2.0	mg/L		06/10/16 08:47	06/13/16 21:34	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW49A-616

Lab Sample ID: 550-64612-3
Date Collected: 06/07/16 09:18
Matrix: Water
Date Received: 06/09/16 06:45

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22000	D2	200	mg/L			06/13/16 15:44	1
pH	7.44	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.0	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW60-616

Lab Sample ID: 550-64612-4
Date Collected: 06/06/16 13:37
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	730	D2	40	mg/L			06/16/16 02:45	20
Fluoride	2.4		0.40	mg/L			06/16/16 02:18	1
Sulfate	6500	D2	400	mg/L			06/20/16 05:38	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	49		0.050	mg/L		06/10/16 08:47	06/13/16 21:39	1
Calcium	410		2.0	mg/L		06/10/16 08:47	06/13/16 21:39	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000	D2	100	mg/L			06/10/16 17:32	1
pH	7.12	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.7	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW61-616

Lab Sample ID: 550-64612-5
Date Collected: 06/06/16 14:22
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650	D2	40	mg/L			06/16/16 03:40	20
Fluoride	1.2		0.40	mg/L			06/16/16 03:13	1
Sulfate	3500	D2	400	mg/L			06/20/16 06:05	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	38		0.050	mg/L		06/10/16 08:47	06/13/16 21:44	1
Calcium	460		2.0	mg/L		06/10/16 08:47	06/13/16 21:44	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5500	D2	100	mg/L			06/10/16 17:32	1
pH	8.62	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.2	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW62-616

Lab Sample ID: 550-64612-6
Date Collected: 06/05/16 12:22
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		2.0	mg/L			06/16/16 04:07	1
Fluoride	1.5		0.40	mg/L			06/16/16 04:07	1
Sulfate	3300	D2	200	mg/L			06/20/16 06:33	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.0		0.050	mg/L		06/10/16 08:47	06/13/16 21:50	1
Calcium	510		2.0	mg/L		06/10/16 08:47	06/13/16 21:50	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5900	D2	100	mg/L			06/09/16 13:02	1
pH	6.86	H5	1.68	SU			06/09/16 11:10	1
Temperature	14.9	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW63-616

Lab Sample ID: 550-64612-7
Date Collected: 06/05/16 14:39
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		2.0	mg/L			06/16/16 05:02	1
Fluoride	1.9		0.40	mg/L			06/16/16 05:02	1
Sulfate	2500	D2	200	mg/L			06/20/16 07:00	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.050	mg/L		06/10/16 08:47	06/13/16 21:55	1
Calcium	500		2.0	mg/L		06/10/16 08:47	06/13/16 21:55	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4400	D2	40	mg/L			06/09/16 13:02	1
pH	7.05	H5	1.68	SU			06/09/16 11:10	1
Temperature	14.8	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW64-616

Lab Sample ID: 550-64612-8
Date Collected: 06/05/16 14:03
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52		2.0	mg/L			06/16/16 05:57	1
Fluoride	1.4		0.40	mg/L			06/16/16 05:57	1
Sulfate	350	D2	40	mg/L			06/20/16 07:27	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.58		0.050	mg/L		06/10/16 08:47	06/13/16 22:01	1
Calcium	86		2.0	mg/L		06/10/16 08:47	06/13/16 22:01	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW64-616

Lab Sample ID: 550-64612-8
Date Collected: 06/05/16 14:03
Matrix: Water
Date Received: 06/09/16 06:45

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		20	mg/L			06/09/16 13:02	1
pH	7.66	H5	1.68	SU			06/09/16 11:10	1
Temperature	14.8	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW65-616

Lab Sample ID: 550-64612-9
Date Collected: 06/05/16 11:45
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54		2.0	mg/L			06/16/16 07:19	1
Fluoride	2.0		0.40	mg/L			06/16/16 07:19	1
Sulfate	460	D2	40	mg/L			06/20/16 07:55	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.75		0.050	mg/L		06/10/16 08:47	06/13/16 22:03	1
Calcium	100		2.0	mg/L		06/10/16 08:47	06/13/16 22:03	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		20	mg/L			06/09/16 13:02	1
pH	7.41	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.3	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW66-616

Lab Sample ID: 550-64612-10
Date Collected: 06/05/16 09:17
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300	D2	40	mg/L			06/16/16 08:14	20
Fluoride	20		0.40	mg/L			06/16/16 07:47	1
Sulfate	7000	D2	400	mg/L			06/20/16 08:22	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	89	D2	0.50	mg/L		06/10/16 08:47	06/16/16 19:34	10
Calcium	470		2.0	mg/L		06/10/16 08:47	06/13/16 22:09	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	13000	D2	100	mg/L			06/09/16 13:02	1
pH	7.31	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.2	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW67-616

Lab Sample ID: 550-64612-11
Date Collected: 06/06/16 08:51
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600	D2	40	mg/L			06/16/16 09:09	20
Fluoride	24	D2	8.0	mg/L			06/16/16 09:09	20
Sulfate	7000	D2	400	mg/L			06/20/16 09:44	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	90	D2	0.50	mg/L		06/10/16 08:47	06/16/16 19:37	10
Calcium	490		2.0	mg/L		06/10/16 08:47	06/13/16 22:15	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	13000	D2	100	mg/L			06/10/16 17:32	1
pH	7.27	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.5	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW68-616

Lab Sample ID: 550-64612-12
Date Collected: 06/05/16 15:30
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500	D2	40	mg/L			06/16/16 10:04	20
Fluoride	10		0.40	mg/L			06/16/16 09:36	1
Sulfate	8000	D2	400	mg/L			06/20/16 11:07	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	100	D2	0.50	mg/L		06/10/16 08:47	06/16/16 19:43	10
Calcium	450		2.0	mg/L		06/10/16 08:47	06/13/16 22:20	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	15000	D2	100	mg/L			06/09/16 13:02	1
pH	7.05	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.2	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW69-616

Lab Sample ID: 550-64612-13
Date Collected: 06/06/16 08:10
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400	D2	40	mg/L			06/16/16 10:59	20
Fluoride	13		0.40	mg/L			06/16/16 10:31	1
Sulfate	7600	D2	400	mg/L			06/20/16 11:34	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	94	D2	0.50	mg/L		06/10/16 08:47	06/16/16 19:48	10
Calcium	470		2.0	mg/L		06/10/16 08:47	06/13/16 22:26	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW69-616

Lab Sample ID: 550-64612-13
Date Collected: 06/06/16 08:10
Matrix: Water
Date Received: 06/09/16 06:45

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	13000	D2	100	mg/L			06/10/16 17:32	1
pH	7.47	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.3	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW70-616

Lab Sample ID: 550-64612-14
Date Collected: 06/05/16 10:48
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200	D2	40	mg/L			06/16/16 12:48	20
Fluoride	2.1		0.40	mg/L			06/16/16 12:21	1
Sulfate	6300	D2	400	mg/L			06/20/16 12:01	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	89	D2	0.50	mg/L		06/10/16 08:47	06/16/16 19:51	10
Calcium	480		2.0	mg/L		06/10/16 08:47	06/13/16 22:31	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12000	D2	100	mg/L			06/09/16 13:02	1
pH	6.97	H5	1.68	SU			06/09/16 11:10	1
Temperature	16.4	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW71-616

Lab Sample ID: 550-64612-15
Date Collected: 06/06/16 12:40
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	750	D2	40	mg/L			06/16/16 13:43	20
Fluoride	ND		0.40	mg/L			06/16/16 13:16	1
Sulfate	13000	D2	400	mg/L			06/20/16 12:29	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.70		0.050	mg/L		06/10/16 08:47	06/13/16 22:37	1
Calcium	460		2.0	mg/L		06/10/16 08:47	06/13/16 22:37	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20000	D2	100	mg/L			06/10/16 17:32	1
pH	6.87	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.5	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW72-616

Lab Sample ID: 550-64612-16
Date Collected: 06/06/16 11:52
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530	D2	40	mg/L			06/16/16 14:38	20
Fluoride	ND		0.40	mg/L			06/16/16 14:10	1
Sulfate	4500	D2	400	mg/L			06/20/16 12:56	200

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.25		0.050	mg/L		06/10/16 08:47	06/13/16 22:42	1
Calcium	570		2.0	mg/L		06/10/16 08:47	06/13/16 22:42	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9500	D2	100	mg/L			06/10/16 17:32	1
pH	6.99	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.2	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-DUP-616

Lab Sample ID: 550-64612-17
Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100	D2	200	mg/L			06/19/16 16:41	100
Fluoride	2.2		0.40	mg/L			06/19/16 16:14	1
Sulfate	6300	D2	200	mg/L			06/19/16 16:41	100

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	89	D2	0.50	mg/L		06/10/16 08:47	06/16/16 19:53	10
Calcium	480		2.0	mg/L		06/10/16 08:47	06/13/16 22:47	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12000	D2	100	mg/L			06/09/16 13:02	1
pH	6.94	H5	1.68	SU			06/09/16 11:10	1
Temperature	15.7	H5	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-EQB-616

Lab Sample ID: 550-64612-18
Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	mg/L			06/19/16 17:36	1
Fluoride	ND		0.40	mg/L			06/19/16 17:36	1
Sulfate	ND		2.0	mg/L			06/19/16 17:36	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	mg/L		06/10/16 08:47	06/13/16 22:53	1
Calcium	ND		2.0	mg/L		06/10/16 08:47	06/13/16 22:53	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-EQB-616

Lab Sample ID: 550-64612-18
Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		20	mg/L			06/09/16 13:02	1
pH	**5.36**	**H5**	1.68	SU			06/09/16 11:10	1
Temperature	**16.4**	**H5**	0.100	Degrees C			06/09/16 11:10	1

Client Sample ID: FC-CCR-MW7-616

Lab Sample ID: 550-64612-19
Date Collected: 06/06/16 15:01
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.40**		0.40	mg/L			06/19/16 18:31	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:47	06/13/16 22:55	1
Lithium	**0.94**		0.20	mg/L		06/10/16 08:47	06/13/16 22:55	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00031**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:49	1
Arsenic	**0.00075**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Barium	**0.017**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 11:49	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Cobalt	**0.0020**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Lead	**0.00082**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Molybdenum	**0.0046**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Selenium	**0.0026**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:49	1
Thallium	**0.00022**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:49	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:00	1

Client Sample ID: FC-CCR-MW8-616

Lab Sample ID: 550-64612-20
Date Collected: 06/07/16 08:05
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.68**		0.40	mg/L			06/19/16 19:26	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:09	1
Lithium	**1.1**		0.20	mg/L		06/10/16 08:53	06/13/16 15:09	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00054**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:51	1
Arsenic	**0.00058**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1

Client Sample ID: FC-CCR-MW8-616

Lab Sample ID: 550-64612-20
Date Collected: 06/07/16 08:05
Matrix: Water
Date Received: 06/09/16 06:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.038		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1
Cadmium	0.00020		0.00010	mg/L		06/10/16 09:48	06/21/16 11:51	1
Chromium	0.0016		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1
Cobalt	0.0023		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1
Lead	0.0014		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1
Molybdenum	0.018		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1
Selenium	0.0013		0.00050	mg/L		06/10/16 09:48	06/21/16 11:51	1
Thallium	0.00014		0.00010	mg/L		06/10/16 09:48	06/21/16 11:51	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:01	1

Client Sample ID: FC-CCR-MW49A-616

Lab Sample ID: 550-64612-21
Date Collected: 06/07/16 09:18
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.86		0.40	mg/L			06/19/16 21:43	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:14	1
Lithium	0.90		0.20	mg/L		06/10/16 08:53	06/13/16 15:14	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00035		0.00010	mg/L		06/10/16 09:48	06/21/16 11:53	1
Arsenic	0.0013		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Barium	0.028		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Cadmium	0.00012		0.00010	mg/L		06/10/16 09:48	06/21/16 11:53	1
Chromium	0.00091		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Cobalt	0.0019		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Molybdenum	0.069		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Selenium	0.0018		0.00050	mg/L		06/10/16 09:48	06/21/16 11:53	1
Thallium	0.0012		0.00010	mg/L		06/10/16 09:48	06/21/16 11:53	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:06	1

Client Sample ID: FC-CCR-MW60-616

Lab Sample ID: 550-64612-22
Date Collected: 06/06/16 13:37
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.5		0.40	mg/L			06/19/16 22:10	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW60-616

Lab Sample ID: 550-64612-22
Date Collected: 06/06/16 13:37
Matrix: Water
Date Received: 06/09/16 06:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:20	1
Lithium	**0.76**		0.20	mg/L		06/10/16 08:53	06/13/16 15:20	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00016**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:55	1
Arsenic	**0.00099**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Barium	**0.024**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Cadmium	**0.00055**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:55	1
Chromium	**0.0014**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Cobalt	**0.14**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Lead	**0.0021**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Molybdenum	**0.041**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Selenium	**0.00067**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:55	1
Thallium	**0.00012**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:55	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:08	1

Client Sample ID: FC-CCR-MW61-616

Lab Sample ID: 550-64612-23
Date Collected: 06/06/16 14:22
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.3**		0.40	mg/L			06/19/16 23:05	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:25	1
Lithium	**0.39**		0.20	mg/L		06/10/16 08:53	06/13/16 15:25	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00023**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:57	1
Arsenic	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Barium	**0.015**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Cadmium	**0.00094**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:57	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Cobalt	**0.012**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Lead	**0.00080**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Molybdenum	**0.077**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Selenium	**0.00096**		0.00050	mg/L		06/10/16 09:48	06/21/16 11:57	1
Thallium	**0.00014**		0.00010	mg/L		06/10/16 09:48	06/21/16 11:57	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:09	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW62-616

Lab Sample ID: 550-64612-24
Date Collected: 06/05/16 12:22
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**		0.40	mg/L			06/20/16 00:00	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:30	1
Lithium	ND		0.20	mg/L		06/10/16 08:53	06/13/16 15:30	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00011**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:03	1
Arsenic	**0.00062**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Barium	**0.027**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:03	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Cobalt	**0.0062**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Molybdenum	**0.0030**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Selenium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:03	1
Thallium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:03	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:11	1

Client Sample ID: FC-CCR-MW63-616

Lab Sample ID: 550-64612-25
Date Collected: 06/05/16 14:39
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.9**		0.40	mg/L			06/20/16 00:55	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:36	1
Lithium	ND		0.20	mg/L		06/10/16 08:53	06/13/16 15:36	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00013**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:06	1
Arsenic	**0.00059**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Barium	**0.020**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:06	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Cobalt	**0.0054**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Molybdenum	**0.0025**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Selenium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:06	1
Thallium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:06	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW63-616

Lab Sample ID: 550-64612-25
Date Collected: 06/05/16 14:39
Matrix: Water
Date Received: 06/09/16 06:45

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:12	1

Client Sample ID: FC-CCR-MW64-616

Lab Sample ID: 550-64612-26
Date Collected: 06/05/16 14:03
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.5**		0.40	mg/L			06/20/16 01:49	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:41	1
Lithium	ND		0.20	mg/L		06/10/16 08:53	06/13/16 15:41	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:08	1
Arsenic	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Barium	**0.027**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:08	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Cobalt	**0.0012**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Molybdenum	**0.0050**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Selenium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:08	1
Thallium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:08	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:14	1

Client Sample ID: FC-CCR-MW65-616

Lab Sample ID: 550-64612-27
Date Collected: 06/05/16 11:45
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.9**		0.40	mg/L			06/20/16 03:39	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:44	1
Lithium	ND		0.20	mg/L		06/10/16 08:53	06/13/16 15:44	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:10	1
Arsenic	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Barium	**0.014**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:10	1

Client Sample ID: FC-CCR-MW65-616

Lab Sample ID: 550-64612-27
Date Collected: 06/05/16 11:45
Matrix: Water
Date Received: 06/09/16 06:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Cobalt	**0.0011**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Molybdenum	**0.0083**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Selenium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:10	1
Thallium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:10	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020	mg/L		06/14/16 16:52	06/15/16 16:15	1

Client Sample ID: FC-CCR-MW66-616

Lab Sample ID: 550-64612-28
Date Collected: 06/05/16 09:17
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**20**		0.40	mg/L			06/20/16 04:34	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:46	1
Lithium	**0.28**		0.20	mg/L		06/10/16 08:53	06/13/16 15:46	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:12	1
Arsenic	**0.00067**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Barium	**0.016**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:12	1
Chromium	**0.00074**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Cobalt	**0.0078**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Molybdenum	**0.013**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Selenium	**0.0016**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:12	1
Thallium	**0.00060**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:12	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 15:49	1

Client Sample ID: FC-CCR-MW67-616

Lab Sample ID: 550-64612-29
Date Collected: 06/06/16 08:51
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**24**	**D2**	4.0	mg/L			06/20/16 05:56	10

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW67-616

Lab Sample ID: 550-64612-29
Date Collected: 06/06/16 08:51
Matrix: Water
Date Received: 06/09/16 06:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 15:56	1
Lithium	**0.30**		0.20	mg/L		06/10/16 08:53	06/13/16 15:56	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00014**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:14	1
Arsenic	**0.0030**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Barium	**0.018**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:14	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Cobalt	**0.0025**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Molybdenum	**0.041**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Selenium	**0.044**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:14	1
Thallium	**0.00031**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:14	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 15:57	1

Client Sample ID: FC-CCR-MW68-616

Lab Sample ID: 550-64612-30
Date Collected: 06/05/16 15:30
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**10**		0.40	mg/L			06/20/16 06:24	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 16:01	1
Lithium	**0.27**		0.20	mg/L		06/10/16 08:53	06/13/16 16:01	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00011**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:16	1
Arsenic	**0.0032**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Barium	**0.0099**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:16	1
Chromium	**0.00073**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Cobalt	**0.0042**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Molybdenum	**0.010**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Selenium	**0.11**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:16	1
Thallium	**0.00066**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:16	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 15:51	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW69-616

Lab Sample ID: 550-64612-31
Date Collected: 06/06/16 08:10
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	13		0.40	mg/L			06/20/16 07:18	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 16:06	1
Lithium	0.27		0.20	mg/L		06/10/16 08:53	06/13/16 16:06	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00021		0.00010	mg/L		06/10/16 09:48	06/21/16 12:22	1
Arsenic	0.0037		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Barium	0.015		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:22	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Cobalt	0.0027		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Molybdenum	0.015		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Selenium	0.018		0.00050	mg/L		06/10/16 09:48	06/21/16 12:22	1
Thallium	0.00022		0.00010	mg/L		06/10/16 09:48	06/21/16 12:22	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 15:59	1

Client Sample ID: FC-CCR-MW70-616

Lab Sample ID: 550-64612-32
Date Collected: 06/05/16 10:48
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.2		0.40	mg/L			06/20/16 10:03	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 16:12	1
Lithium	0.31		0.20	mg/L		06/10/16 08:53	06/13/16 16:12	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00011		0.00010	mg/L		06/10/16 09:48	06/21/16 12:24	1
Arsenic	0.0048		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Barium	0.012		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:24	1
Chromium	0.00063		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Cobalt	0.0051		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Molybdenum	0.0060		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Selenium	0.17		0.00050	mg/L		06/10/16 09:48	06/21/16 12:24	1
Thallium	0.00028		0.00010	mg/L		06/10/16 09:48	06/21/16 12:24	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW70-616

Lab Sample ID: 550-64612-32
Date Collected: 06/05/16 10:48
Matrix: Water
Date Received: 06/09/16 06:45

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 15:52	1

Client Sample ID: FC-CCR-MW71-616

Lab Sample ID: 550-64612-33
Date Collected: 06/06/16 12:40
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			06/20/16 10:58	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 16:17	1
Lithium	**0.41**		0.20	mg/L		06/10/16 08:53	06/13/16 16:17	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00012**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:26	1
Arsenic	**0.0069**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Barium	**0.020**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Cadmium	**0.00015**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:26	1
Chromium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Cobalt	**0.0041**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Lead	**0.00073**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Molybdenum	**0.0014**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Selenium	**0.28**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:26	1
Thallium	**0.00043**		0.00010	mg/L		06/10/16 09:48	06/21/16 12:26	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 16:00	1

Client Sample ID: FC-CCR-MW72-616

Lab Sample ID: 550-64612-34
Date Collected: 06/06/16 11:52
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			06/20/16 11:52	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 16:23	1
Lithium	ND		0.20	mg/L		06/10/16 08:53	06/13/16 16:23	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.00027**	**D1**	0.00020	mg/L		06/10/16 09:48	06/23/16 14:02	2
Arsenic	**0.0084**		0.00050	mg/L		06/10/16 09:48	06/21/16 12:28	1
Barium	**0.051**	**D1**	0.0010	mg/L		06/10/16 09:48	06/23/16 14:02	2
Cadmium	ND	D1	0.00020	mg/L		06/10/16 09:48	06/23/16 14:02	2

Client Sample ID: FC-CCR-MW72-616

Lab Sample ID: 550-64612-34
Date Collected: 06/06/16 11:52
Matrix: Water
Date Received: 06/09/16 06:45

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.00060		0.00050	mg/L		06/10/16 09:48	06/21/16 12:28	1
Cobalt	0.0029		0.00050	mg/L		06/10/16 09:48	06/21/16 12:28	1
Lead	ND	D1	0.0010	mg/L		06/10/16 09:48	06/23/16 14:02	2
Molybdenum	0.0052	D1	0.0010	mg/L		06/10/16 09:48	06/23/16 14:02	2
Selenium	0.39		0.00050	mg/L		06/10/16 09:48	06/21/16 12:28	1
Thallium	0.00058	D1	0.00020	mg/L		06/10/16 09:48	06/23/16 14:02	2

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 16:04	1

Client Sample ID: FC-CCR-DUP-616

Lab Sample ID: 550-64612-35
Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.1		0.40	mg/L			06/20/16 12:47	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:53	06/13/16 16:26	1
Lithium	0.32		0.20	mg/L		06/10/16 08:53	06/13/16 16:26	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00011		0.00010	mg/L		06/10/16 09:48	06/21/16 12:30	1
Arsenic	0.0044		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Barium	0.013		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Cadmium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 12:30	1
Chromium	0.00084		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Cobalt	0.0051		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Lead	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Molybdenum	0.0060		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Selenium	0.16		0.00050	mg/L		06/10/16 09:48	06/21/16 12:30	1
Thallium	0.00027		0.00010	mg/L		06/10/16 09:48	06/21/16 12:30	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020	mg/L		06/16/16 13:10	06/17/16 15:54	1

Client Sample ID: FC-CCR-EQB-616

Lab Sample ID: 550-64612-36
Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			06/20/16 13:42	1

Client Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-EQB-616

Lab Sample ID: 550-64612-36

Date Collected: 06/05/16 00:00

Matrix: Water

Date Received: 06/09/16 06:45

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		06/10/16 08:53	06/13/16 16:32	1
Lithium	ND		0.20		mg/L		06/10/16 08:53	06/13/16 16:32	1

Method: 200.8 LL - Metals (ICP/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00010		mg/L		06/10/16 09:48	06/21/16 12:32	1
Arsenic	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Barium	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Cadmium	ND		0.00010		mg/L		06/10/16 09:48	06/21/16 12:32	1
Chromium	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Cobalt	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Lead	**0.00071**		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Molybdenum	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Selenium	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 12:32	1
Thallium	ND		0.00010		mg/L		06/10/16 09:48	06/21/16 12:32	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND	L5	0.00020		mg/L		06/16/16 13:10	06/17/16 15:55	1

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 550-91623/2
Matrix: Water
Analysis Batch: 91623

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	mg/L			06/15/16 18:04	1
Fluoride	ND		0.40	mg/L			06/15/16 18:04	1
Sulfate	ND		2.0	mg/L			06/15/16 18:04	1

Lab Sample ID: LCS 550-91623/5
Matrix: Water
Analysis Batch: 91623

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	20.3		mg/L		101	90 - 110
Fluoride	4.00	4.07		mg/L		102	90 - 110
Sulfate	20.0	20.1		mg/L		100	90 - 110

Lab Sample ID: LCSD 550-91623/6
Matrix: Water
Analysis Batch: 91623

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	20.0	20.3		mg/L		102	90 - 110	0	20
Fluoride	4.00	4.09		mg/L		102	90 - 110	0	20
Sulfate	20.0	20.0		mg/L		100	90 - 110	0	20

Lab Sample ID: 550-64890-A-1 MS
Matrix: Water
Analysis Batch: 91623

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	63		20.0	82.3		mg/L		96	80 - 120
Fluoride	2.8		4.00	6.85		mg/L		101	80 - 120
Sulfate	99	M3	20.0	116	M3	mg/L		83	80 - 120

Lab Sample ID: 550-64890-A-1 MSD
Matrix: Water
Analysis Batch: 91623

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	63		20.0	82.4		mg/L		96	80 - 120	0	20
Fluoride	2.8		4.00	6.88		mg/L		102	80 - 120	0	20
Sulfate	99	M3	20.0	116	M3	mg/L		83	80 - 120	0	20

Lab Sample ID: MB 550-91833/14
Matrix: Water
Analysis Batch: 91833

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		2.0	mg/L			06/19/16 10:45	1
Fluoride	ND		0.40	mg/L			06/19/16 10:45	1
Sulfate	ND		2.0	mg/L			06/19/16 10:45	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 550-91833/22 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	20.9		mg/L		104	90 - 110
Fluoride	4.00	4.18		mg/L		105	90 - 110
Sulfate	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: LCSD 550-91833/23 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	20.0	20.9		mg/L		104	90 - 110	0	20
Fluoride	4.00	4.18		mg/L		105	90 - 110	0	20
Sulfate	20.0	20.6		mg/L		103	90 - 110	0	20

Lab Sample ID: 550-65088-A-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16		20.0	38.9		mg/L		113	80 - 120
Fluoride	ND		4.00	4.24		mg/L		106	80 - 120
Sulfate	ND		20.0	21.7		mg/L		104	80 - 120

Lab Sample ID: 550-65088-A-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16		20.0	39.0		mg/L		113	80 - 120	0	20
Fluoride	ND		4.00	4.24		mg/L		106	80 - 120	0	20
Sulfate	ND		20.0	21.8		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 550-91834/61 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91834

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.40	mg/L			06/20/16 08:13	1

Lab Sample ID: LCS 550-91834/62 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.19		mg/L		105	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 550-91834/63 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride			4.00	4.19		mg/L		105	90 - 110	0	20

Lab Sample ID: 550-64612-36 MS — **Client Sample ID: FC-CCR-EQB-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	ND	D1 D5	40.0	42.1	D1	mg/L		105	80 - 120		

Lab Sample ID: 550-64612-36 MSD — **Client Sample ID: FC-CCR-EQB-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91834

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	ND	D1 D5	40.0	42.8	D1	mg/L		107	80 - 120	2	20

Lab Sample ID: MB 550-91851/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91851

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		2.0		mg/L			06/20/16 02:53	1

Lab Sample ID: LCS 550-91851/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91851

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			20.0	20.1		mg/L		101	90 - 110		

Lab Sample ID: LCSD 550-91851/38 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91851

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			20.0	20.1		mg/L		100	90 - 110	0	20

Lab Sample ID: 550-64612-11 MS — **Client Sample ID: FC-CCR-MW67-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91851

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	7000	D2	4000	10600	D2	mg/L		91	80 - 120		

Lab Sample ID: 550-64612-11 MSD — **Client Sample ID: FC-CCR-MW67-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91851

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7000	D2	4000	10600	D2	mg/L		89	80 - 120	1	20

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 550-91236/1-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91236

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010	mg/L		06/10/16 08:47	06/13/16 21:09	1
Boron	ND		0.050	mg/L		06/10/16 08:47	06/13/16 21:09	1
Calcium	ND		2.0	mg/L		06/10/16 08:47	06/13/16 21:09	1
Lithium	ND		0.20	mg/L		06/10/16 08:47	06/13/16 21:09	1

Lab Sample ID: LCS 550-91236/2-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	1.01		mg/L		101	85 - 115
Boron	1.00	0.995		mg/L		99	85 - 115
Calcium	21.0	21.0		mg/L		100	85 - 115
Lithium	1.00	1.04		mg/L		104	85 - 115

Lab Sample ID: LCSD 550-91236/3-A
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91236

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
Boron	1.00	0.999		mg/L		100	85 - 115	0	20
Calcium	21.0	21.3		mg/L		101	85 - 115	1	20
Lithium	1.00	1.03		mg/L		103	85 - 115	1	20

Lab Sample ID: 550-64603-A-1-A MS
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91236

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
Boron	0.51		1.00	1.52		mg/L		101	70 - 130
Calcium	84		21.0	102	M3	mg/L		82	70 - 130
Lithium	ND		1.00	1.18		mg/L		100	70 - 130

Lab Sample ID: 550-64603-A-1-B MSD
Matrix: Water
Analysis Batch: 91425

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 91236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	1.02		mg/L		102	70 - 130	1	20
Boron	0.51		1.00	1.51		mg/L		100	70 - 130	1	20
Calcium	84		21.0	102	M3	mg/L		85	70 - 130	1	20
Lithium	ND		1.00	1.17		mg/L		99	70 - 130	1	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 550-91237/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91237**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0010		mg/L		06/10/16 08:53	06/13/16 14:54	1
Lithium	ND		0.20		mg/L		06/10/16 08:53	06/13/16 14:54	1

Lab Sample ID: LCS 550-91237/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91237**

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	1.03		mg/L		103	85 - 115		

Lab Sample ID: LCSD 550-91237/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91237**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium			1.00	1.01		mg/L		101	85 - 115	2	20
Lithium			1.00	1.02		mg/L		102	85 - 115	2	20

Lab Sample ID: 550-64688-A-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Beryllium	ND		1.00	1.02		mg/L		102	70 - 130		
Lithium	ND		1.00	1.07		mg/L		101	70 - 130		

Lab Sample ID: 550-64688-A-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91392 — **Prep Batch: 91237**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	ND		1.00	1.01		mg/L		101	70 - 130	1	20
Lithium	ND		1.00	1.06		mg/L		99	70 - 130	1	20

Method: 200.8 LL - Metals (ICP/MS)

Lab Sample ID: MB 550-91247/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91933 — **Prep Batch: 91247**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.00010		mg/L		06/10/16 09:48	06/21/16 11:35	1
Arsenic	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 11:35	1
Barium	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 11:35	1
Cadmium	ND		0.00010		mg/L		06/10/16 09:48	06/21/16 11:35	1
Chromium	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 11:35	1
Cobalt	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 11:35	1
Lead	ND		0.00050		mg/L		06/10/16 09:48	06/21/16 11:35	1

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

Lab Sample ID: MB 550-91247/1-A
Matrix: Water
Analysis Batch: 91933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91247

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 11:35	1
Selenium	ND		0.00050	mg/L		06/10/16 09:48	06/21/16 11:35	1
Thallium	ND		0.00010	mg/L		06/10/16 09:48	06/21/16 11:35	1

Lab Sample ID: LCS 550-91247/2-A
Matrix: Water
Analysis Batch: 91933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.100	0.0976		mg/L		98	85 - 115
Arsenic	0.100	0.0983		mg/L		98	85 - 115
Barium	0.100	0.0991		mg/L		99	85 - 115
Cadmium	0.100	0.0996		mg/L		100	85 - 115
Chromium	0.100	0.0969		mg/L		97	85 - 115
Cobalt	0.100	0.0999		mg/L		100	85 - 115
Lead	0.100	0.101		mg/L		101	85 - 115
Molybdenum	0.100	0.0983		mg/L		98	85 - 115
Selenium	0.100	0.0971		mg/L		97	85 - 115
Thallium	0.100	0.0969		mg/L		97	85 - 115

Lab Sample ID: LCSD 550-91247/3-A
Matrix: Water
Analysis Batch: 91933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.100	0.0972		mg/L		97	85 - 115	0	20
Arsenic	0.100	0.0975		mg/L		98	85 - 115	1	20
Barium	0.100	0.0978		mg/L		98	85 - 115	1	20
Cadmium	0.100	0.0993		mg/L		99	85 - 115	0	20
Chromium	0.100	0.0968		mg/L		97	85 - 115	0	20
Cobalt	0.100	0.0989		mg/L		99	85 - 115	1	20
Lead	0.100	0.101		mg/L		101	85 - 115	0	20
Molybdenum	0.100	0.0977		mg/L		98	85 - 115	1	20
Selenium	0.100	0.0963		mg/L		96	85 - 115	1	20
Thallium	0.100	0.0970		mg/L		97	85 - 115	0	20

Lab Sample ID: 550-64684-D-2-B MS
Matrix: Water
Analysis Batch: 91933

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.00012		0.100	0.100		mg/L		100	70 - 130
Arsenic	0.00055		0.100	0.103		mg/L		102	70 - 130
Barium	0.0084		0.100	0.106		mg/L		98	70 - 130
Cadmium	ND		0.100	0.0976		mg/L		98	70 - 130
Chromium	0.00096		0.100	0.0989		mg/L		98	70 - 130
Cobalt	ND		0.100	0.0979		mg/L		98	70 - 130
Lead	ND		0.100	0.0948		mg/L		94	70 - 130
Molybdenum	ND		0.100	0.102		mg/L		102	70 - 130

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

Lab Sample ID: 550-64684-D-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91933 — **Prep Batch: 91247**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Selenium	ND		0.100	0.0993		mg/L		99	70 - 130		
Thallium	0.00055		0.100	0.0918		mg/L		91	70 - 130		

Lab Sample ID: 550-64684-D-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91933 — **Prep Batch: 91247**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.00012		0.100	0.0985		mg/L		98	70 - 130	2	20
Arsenic	0.00055		0.100	0.0975		mg/L		97	70 - 130	5	20
Barium	0.0084		0.100	0.106		mg/L		97	70 - 130	1	20
Cadmium	ND		0.100	0.0956		mg/L		96	70 - 130	2	20
Chromium	0.00096		0.100	0.0940		mg/L		93	70 - 130	5	20
Cobalt	ND		0.100	0.0935		mg/L		93	70 - 130	5	20
Lead	ND		0.100	0.0942		mg/L		94	70 - 130	1	20
Molybdenum	ND		0.100	0.101		mg/L		101	70 - 130	2	20
Selenium	ND		0.100	0.0956		mg/L		95	70 - 130	4	20
Thallium	0.00055		0.100	0.0909		mg/L		90	70 - 130	1	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 550-91495/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91587 — **Prep Batch: 91495**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		06/14/16 16:52	06/15/16 15:42	1

Lab Sample ID: LCS 550-91495/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91587 — **Prep Batch: 91495**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.0100	0.0103		mg/L		103	85 - 115		

Lab Sample ID: LCSD 550-91495/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91587 — **Prep Batch: 91495**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			0.0100	0.0114		mg/L		114	85 - 115	10	20

Lab Sample ID: 550-64516-J-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91587 — **Prep Batch: 91495**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	ND		0.0100	0.0104		mg/L		104	70 - 130		

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 550-64516-J-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91587 — **Prep Batch: 91495**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND		0.0100	0.0108		mg/L		108	70 - 130	3	20

Lab Sample ID: MB 550-91665/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91782 — **Prep Batch: 91665**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		0.00020		mg/L		06/16/16 13:10	06/17/16 15:41	1

Lab Sample ID: LCS 550-91665/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91782 — **Prep Batch: 91665**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg			0.0100	0.0115		mg/L		115	85 - 115		

Lab Sample ID: LCSD 550-91665/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91782 — **Prep Batch: 91665**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg			0.0100	0.0117	L5	mg/L		117	85 - 115	2	20

Lab Sample ID: 550-64612-28 MS — **Client Sample ID: FC-CCR-MW66-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91782 — **Prep Batch: 91665**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hg	ND	L5	0.0100	0.00958		mg/L		95	70 - 130		

Lab Sample ID: 550-64612-28 MSD — **Client Sample ID: FC-CCR-MW66-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91782 — **Prep Batch: 91665**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hg	ND	L5	0.0100	0.0101		mg/L		100	70 - 130	5	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 550-91193/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91193

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		20		mg/L			06/09/16 13:02	1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 550-91193/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91193

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	988		mg/L		99	90 - 110		

Lab Sample ID: LCSD 550-91193/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	988		mg/L		99	90 - 110	0	10

Lab Sample ID: 550-64013-J-1 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91193

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	730			754		mg/L				3	10

Lab Sample ID: 550-64612-18 DU — **Client Sample ID: FC-CCR-EQB-616**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91193

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	ND			ND		mg/L				NC	10

Lab Sample ID: MB 550-91297/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91297

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		20		mg/L			06/10/16 17:32	1

Lab Sample ID: LCS 550-91297/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91297

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	986		mg/L		99	90 - 110		

Lab Sample ID: LCSD 550-91297/3 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91297

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	986		mg/L		99	90 - 110	0	10

Lab Sample ID: 550-64075-C-3 DU — **Client Sample ID: Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 91297

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2800	D2		2870	D2	mg/L				2	10

QC Sample Results

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Lab Sample ID: 550-64134-A-2 DU
Matrix: Water
Analysis Batch: 91297

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	4000	D2		3770	D2	mg/L				6	10

Lab Sample ID: MB 550-91381/1
Matrix: Water
Analysis Batch: 91381

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		20		mg/L			06/13/16 15:44	1

Lab Sample ID: LCS 550-91381/2
Matrix: Water
Analysis Batch: 91381

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1000		mg/L		100	90 - 110		

Lab Sample ID: LCSD 550-91381/3
Matrix: Water
Analysis Batch: 91381

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Dissolved Solids			1000	1000		mg/L		100	90 - 110	0	10

Lab Sample ID: 550-64545-B-3 DU
Matrix: Water
Analysis Batch: 91381

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	320			312		mg/L				3	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCSSRM 550-91181/1
Matrix: Water
Analysis Batch: 91181

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.000		SU		100.0	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-91181/13
Matrix: Water
Analysis Batch: 91181

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.010		SU		100.1	98.5 - 101.5		

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: LCSSRM 550-91181/25
Matrix: Water
Analysis Batch: 91181

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.000		SU		100.0	98.5 - 101.5		

Lab Sample ID: LCSSRM 550-91181/31
Matrix: Water
Analysis Batch: 91181

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

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.010		SU		100.1	98.5 - 101.5		

Lab Sample ID: 550-64538-A-1 DU
Matrix: Water
Analysis Batch: 91181

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.39	H5		8.410	H5	SU				0.2	5
Temperature	14.2	H5		14.00	H5	Degrees C				1	

Lab Sample ID: 550-64612-5 DU
Matrix: Water
Analysis Batch: 91181

Client Sample ID: FC-CCR-MW61-616
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.62	H5		8.620	H5	SU				0	5
Temperature	15.2	H5		15.10	H5	Degrees C				0.7	

Lab Sample ID: 550-64612-15 DU
Matrix: Water
Analysis Batch: 91181

Client Sample ID: FC-CCR-MW71-616
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.87	H5		6.880	H5	SU				0.1	5
Temperature	15.5	H5		15.50	H5	Degrees C				0	

QC Association Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

HPLC/IC

Analysis Batch: 91623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	300.0	
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	300.0	
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	300.0	
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	300.0	
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	300.0	
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	300.0	
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	300.0	
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	300.0	
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	300.0	
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	300.0	
550-64612-6	FC-CCR-MW62-616	Total/NA	Water	300.0	
550-64612-7	FC-CCR-MW63-616	Total/NA	Water	300.0	
550-64612-8	FC-CCR-MW64-616	Total/NA	Water	300.0	
550-64612-9	FC-CCR-MW65-616	Total/NA	Water	300.0	
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	300.0	
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	300.0	
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	300.0	
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	300.0	
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	300.0	
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	300.0	
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	300.0	
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	300.0	
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	300.0	
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	300.0	
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	300.0	
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	300.0	
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	300.0	
MB 550-91623/2	Method Blank	Total/NA	Water	300.0	
LCS 550-91623/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-91623/6	Lab Control Sample Dup	Total/NA	Water	300.0	
550-64890-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
550-64890-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 91833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	300.0	
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	300.0	
550-64612-18	FC-CCR-EQB-616	Total/NA	Water	300.0	
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	300.0	
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	300.0	
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	300.0	
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	300.0	
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	300.0	
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	300.0	
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	300.0	
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	300.0	
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	300.0	
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	300.0	
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	300.0	
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	300.0	
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 91833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 550-91833/14	Method Blank	Total/NA	Water	300.0	
LCS 550-91833/22	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-91833/23	Lab Control Sample Dup	Total/NA	Water	300.0	
550-65088-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
550-65088-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 91834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	300.0	
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	300.0	
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	300.0	
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	300.0	
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	300.0	
MB 550-91834/61	Method Blank	Total/NA	Water	300.0	
LCS 550-91834/62	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-91834/63	Lab Control Sample Dup	Total/NA	Water	300.0	
550-64612-36 MS	FC-CCR-EQB-616	Total/NA	Water	300.0	
550-64612-36 MSD	FC-CCR-EQB-616	Total/NA	Water	300.0	

Analysis Batch: 91851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	300.0	
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	300.0	
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	300.0	
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	300.0	
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	300.0	
550-64612-6	FC-CCR-MW62-616	Total/NA	Water	300.0	
550-64612-7	FC-CCR-MW63-616	Total/NA	Water	300.0	
550-64612-8	FC-CCR-MW64-616	Total/NA	Water	300.0	
550-64612-9	FC-CCR-MW65-616	Total/NA	Water	300.0	
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	300.0	
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	300.0	
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	300.0	
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	300.0	
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	300.0	
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	300.0	
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	300.0	
MB 550-91851/36	Method Blank	Total/NA	Water	300.0	
LCS 550-91851/37	Lab Control Sample	Total/NA	Water	300.0	
LCSD 550-91851/38	Lab Control Sample Dup	Total/NA	Water	300.0	
550-64612-11 MS	FC-CCR-MW67-616	Total/NA	Water	300.0	
550-64612-11 MSD	FC-CCR-MW67-616	Total/NA	Water	300.0	

Metals

Prep Batch: 91236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	200.7	
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	200.7	
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	200.7	

Metals (Continued)

Prep Batch: 91236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	200.7	
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	200.7	
550-64612-6	FC-CCR-MW62-616	Total/NA	Water	200.7	
550-64612-7	FC-CCR-MW63-616	Total/NA	Water	200.7	
550-64612-8	FC-CCR-MW64-616	Total/NA	Water	200.7	
550-64612-9	FC-CCR-MW65-616	Total/NA	Water	200.7	
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	200.7	
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	200.7	
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	200.7	
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	200.7	
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	200.7	
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	200.7	
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	200.7	
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	200.7	
550-64612-18	FC-CCR-EQB-616	Total/NA	Water	200.7	
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	200.7	
MB 550-91236/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-91236/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-91236/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-64603-A-1-A MS	Matrix Spike	Total/NA	Water	200.7	
550-64603-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 91237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	200.7	
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	200.7	
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	200.7	
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	200.7	
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	200.7	
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	200.7	
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	200.7	
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	200.7	
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	200.7	
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	200.7	
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	200.7	
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	200.7	
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	200.7	
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	200.7	
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	200.7	
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	200.7	
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	200.7	
MB 550-91237/1-A	Method Blank	Total/NA	Water	200.7	
LCS 550-91237/2-A	Lab Control Sample	Total/NA	Water	200.7	
LCSD 550-91237/3-A	Lab Control Sample Dup	Total/NA	Water	200.7	
550-64688-A-2-A MS	Matrix Spike	Total/NA	Water	200.7	
550-64688-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Prep Batch: 91247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	200.8	
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	200.8	

Metals (Continued)

Prep Batch: 91247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	200.8	
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	200.8	
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	200.8	
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	200.8	
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	200.8	
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	200.8	
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	200.8	
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	200.8	
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	200.8	
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	200.8	
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	200.8	
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	200.8	
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	200.8	
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	200.8	
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	200.8	
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	200.8	
MB 550-91247/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-91247/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-91247/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-64684-D-2-B MS	Matrix Spike	Total/NA	Water	200.8	
550-64684-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 91392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	200.7 Rev 4.4	91237
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	200.7 Rev 4.4	91237
MB 550-91237/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	91237
LCS 550-91237/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	91237
LCSD 550-91237/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	91237
550-64688-A-2-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	91237
550-64688-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	91237

Analysis Batch: 91425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	200.7 Rev 4.4	91236

Metals (Continued)

Analysis Batch: 91425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-6	FC-CCR-MW62-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-7	FC-CCR-MW63-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-8	FC-CCR-MW64-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-9	FC-CCR-MW65-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-18	FC-CCR-EQB-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	200.7 Rev 4.4	91236
MB 550-91236/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	91236
LCS 550-91236/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	91236
LCSD 550-91236/3-A	Lab Control Sample Dup	Total/NA	Water	200.7 Rev 4.4	91236
550-64603-A-1-A MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	91236
550-64603-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	91236

Prep Batch: 91495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	245.1	
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	245.1	
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	245.1	
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	245.1	
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	245.1	
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	245.1	
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	245.1	
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	245.1	
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	245.1	
MB 550-91495/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-91495/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-91495/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-64516-J-1-B MS	Matrix Spike	Total/NA	Water	245.1	
550-64516-J-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 91587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	245.1	91495
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	245.1	91495
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	245.1	91495
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	245.1	91495
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	245.1	91495
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	245.1	91495
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	245.1	91495
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	245.1	91495
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	245.1	91495

Metals (Continued)

Analysis Batch: 91587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 550-91495/1-A	Method Blank	Total/NA	Water	245.1	91495
LCS 550-91495/2-A	Lab Control Sample	Total/NA	Water	245.1	91495
LCSD 550-91495/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	91495
550-64516-J-1-B MS	Matrix Spike	Total/NA	Water	245.1	91495
550-64516-J-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	91495

Prep Batch: 91665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	245.1	
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	245.1	
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	245.1	
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	245.1	
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	245.1	
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	245.1	
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	245.1	
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	245.1	
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	245.1	
MB 550-91665/1-A	Method Blank	Total/NA	Water	245.1	
LCS 550-91665/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 550-91665/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
550-64612-28 MS	FC-CCR-MW66-616	Total/NA	Water	245.1	
550-64612-28 MSD	FC-CCR-MW66-616	Total/NA	Water	245.1	

Analysis Batch: 91715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	200.7 Rev 4.4	91236
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	200.7 Rev 4.4	91236

Analysis Batch: 91782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	245.1	91665
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	245.1	91665
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	245.1	91665
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	245.1	91665
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	245.1	91665
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	245.1	91665
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	245.1	91665
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	245.1	91665
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	245.1	91665
MB 550-91665/1-A	Method Blank	Total/NA	Water	245.1	91665
LCS 550-91665/2-A	Lab Control Sample	Total/NA	Water	245.1	91665
LCSD 550-91665/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	91665
550-64612-28 MS	FC-CCR-MW66-616	Total/NA	Water	245.1	91665
550-64612-28 MSD	FC-CCR-MW66-616	Total/NA	Water	245.1	91665

Metals (Continued)

Analysis Batch: 91933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-19	FC-CCR-MW7-616	Total/NA	Water	200.8 LL	91247
550-64612-20	FC-CCR-MW8-616	Total/NA	Water	200.8 LL	91247
550-64612-21	FC-CCR-MW49A-616	Total/NA	Water	200.8 LL	91247
550-64612-22	FC-CCR-MW60-616	Total/NA	Water	200.8 LL	91247
550-64612-23	FC-CCR-MW61-616	Total/NA	Water	200.8 LL	91247
550-64612-24	FC-CCR-MW62-616	Total/NA	Water	200.8 LL	91247
550-64612-25	FC-CCR-MW63-616	Total/NA	Water	200.8 LL	91247
550-64612-26	FC-CCR-MW64-616	Total/NA	Water	200.8 LL	91247
550-64612-27	FC-CCR-MW65-616	Total/NA	Water	200.8 LL	91247
550-64612-28	FC-CCR-MW66-616	Total/NA	Water	200.8 LL	91247
550-64612-29	FC-CCR-MW67-616	Total/NA	Water	200.8 LL	91247
550-64612-30	FC-CCR-MW68-616	Total/NA	Water	200.8 LL	91247
550-64612-31	FC-CCR-MW69-616	Total/NA	Water	200.8 LL	91247
550-64612-32	FC-CCR-MW70-616	Total/NA	Water	200.8 LL	91247
550-64612-33	FC-CCR-MW71-616	Total/NA	Water	200.8 LL	91247
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	200.8 LL	91247
550-64612-35	FC-CCR-DUP-616	Total/NA	Water	200.8 LL	91247
550-64612-36	FC-CCR-EQB-616	Total/NA	Water	200.8 LL	91247
MB 550-91247/1-A	Method Blank	Total/NA	Water	200.8 LL	91247
LCS 550-91247/2-A	Lab Control Sample	Total/NA	Water	200.8 LL	91247
LCSD 550-91247/3-A	Lab Control Sample Dup	Total/NA	Water	200.8 LL	91247
550-64684-D-2-B MS	Matrix Spike	Total/NA	Water	200.8 LL	91247
550-64684-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8 LL	91247

Analysis Batch: 92156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-34	FC-CCR-MW72-616	Total/NA	Water	200.8 LL	91247

General Chemistry

Analysis Batch: 91181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	SM 4500 H+ B	
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	SM 4500 H+ B	
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	SM 4500 H+ B	
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	SM 4500 H+ B	
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	SM 4500 H+ B	
550-64612-6	FC-CCR-MW62-616	Total/NA	Water	SM 4500 H+ B	
550-64612-7	FC-CCR-MW63-616	Total/NA	Water	SM 4500 H+ B	
550-64612-8	FC-CCR-MW64-616	Total/NA	Water	SM 4500 H+ B	
550-64612-9	FC-CCR-MW65-616	Total/NA	Water	SM 4500 H+ B	
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	SM 4500 H+ B	
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	SM 4500 H+ B	
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	SM 4500 H+ B	
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	SM 4500 H+ B	
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	SM 4500 H+ B	
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	SM 4500 H+ B	
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	SM 4500 H+ B	
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	SM 4500 H+ B	
550-64612-18	FC-CCR-EQB-616	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 91181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSSRM 550-91181/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-91181/13	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-91181/25	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSSRM 550-91181/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
550-64538-A-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
550-64612-5 DU	FC-CCR-MW61-616	Total/NA	Water	SM 4500 H+ B	
550-64612-15 DU	FC-CCR-MW71-616	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 91193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-6	FC-CCR-MW62-616	Total/NA	Water	SM 2540C	
550-64612-7	FC-CCR-MW63-616	Total/NA	Water	SM 2540C	
550-64612-8	FC-CCR-MW64-616	Total/NA	Water	SM 2540C	
550-64612-9	FC-CCR-MW65-616	Total/NA	Water	SM 2540C	
550-64612-10	FC-CCR-MW66-616	Total/NA	Water	SM 2540C	
550-64612-12	FC-CCR-MW68-616	Total/NA	Water	SM 2540C	
550-64612-14	FC-CCR-MW70-616	Total/NA	Water	SM 2540C	
550-64612-17	FC-CCR-DUP-616	Total/NA	Water	SM 2540C	
550-64612-18	FC-CCR-EQB-616	Total/NA	Water	SM 2540C	
MB 550-91193/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-91193/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-91193/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-64013-J-1 DU	Duplicate	Total/NA	Water	SM 2540C	
550-64612-18 DU	FC-CCR-EQB-616	Total/NA	Water	SM 2540C	

Analysis Batch: 91297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-1	FC-CCR-MW7-616	Total/NA	Water	SM 2540C	
550-64612-4	FC-CCR-MW60-616	Total/NA	Water	SM 2540C	
550-64612-5	FC-CCR-MW61-616	Total/NA	Water	SM 2540C	
550-64612-11	FC-CCR-MW67-616	Total/NA	Water	SM 2540C	
550-64612-13	FC-CCR-MW69-616	Total/NA	Water	SM 2540C	
550-64612-15	FC-CCR-MW71-616	Total/NA	Water	SM 2540C	
550-64612-16	FC-CCR-MW72-616	Total/NA	Water	SM 2540C	
MB 550-91297/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-91297/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-91297/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-64075-C-3 DU	Duplicate	Total/NA	Water	SM 2540C	
550-64134-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 91381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-64612-2	FC-CCR-MW8-616	Total/NA	Water	SM 2540C	
550-64612-3	FC-CCR-MW49A-616	Total/NA	Water	SM 2540C	
MB 550-91381/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 550-91381/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 550-91381/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
550-64545-B-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW7-616

Lab Sample ID: 550-64612-1
Date Collected: 06/06/16 15:01
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/15/16 22:38	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/15/16 23:06	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 04:16	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:23	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW8-616

Lab Sample ID: 550-64612-2
Date Collected: 06/07/16 08:05
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/15/16 23:33	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 00:01	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 04:43	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:28	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91381		ATH	TAL PHX
					(Start)	06/13/16 15:44		
					(End)	06/14/16 15:40		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW49A-616

Lab Sample ID: 550-64612-3
Date Collected: 06/07/16 09:18
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 00:28	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 01:50	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 05:10	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:34	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91381		ATH	TAL PHX
					(Start)	06/13/16 15:44		
					(End)	06/14/16 15:40		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW60-616

Lab Sample ID: 550-64612-4
Date Collected: 06/06/16 13:37
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 02:18	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 02:45	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 05:38	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:39	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW61-616

Lab Sample ID: 550-64612-5
Date Collected: 06/06/16 14:22
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 03:13	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 03:40	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 06:05	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:44	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW62-616

Lab Sample ID: 550-64612-6
Date Collected: 06/05/16 12:22
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 04:07	BCB	TAL PHX
Total/NA	Analysis	300.0		100	91851	06/20/16 06:33	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:50	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW63-616 — Lab Sample ID: 550-64612-7

Date Collected: 06/05/16 14:39 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 05:02	BCB	TAL PHX
Total/NA	Analysis	300.0		100	91851	06/20/16 07:00	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 21:55	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW64-616 — Lab Sample ID: 550-64612-8

Date Collected: 06/05/16 14:03 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 05:57	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91851	06/20/16 07:27	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:01	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW65-616 — Lab Sample ID: 550-64612-9

Date Collected: 06/05/16 11:45 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 07:19	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91851	06/20/16 07:55	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:03	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW66-616

Lab Sample ID: 550-64612-10
Date Collected: 06/05/16 09:17
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 07:47	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 08:14	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 08:22	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:09	CJD	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		10	91715	06/16/16 19:34	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW67-616

Lab Sample ID: 550-64612-11
Date Collected: 06/06/16 08:51
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	91623	06/16/16 09:09	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 09:44	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:15	CJD	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		10	91715	06/16/16 19:37	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW68-616

Lab Sample ID: 550-64612-12
Date Collected: 06/05/16 15:30
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 09:36	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 10:04	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 11:07	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:20	CJD	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		10	91715	06/16/16 19:43	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW69-616 — Lab Sample ID: 550-64612-13

Date Collected: 06/06/16 08:10 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 10:31	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 10:59	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 11:34	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:26	CJD	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		10	91715	06/16/16 19:48	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW70-616 — Lab Sample ID: 550-64612-14

Date Collected: 06/05/16 10:48 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 12:21	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 12:48	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 12:01	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:31	CJD	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		10	91715	06/16/16 19:51	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW71-616 — Lab Sample ID: 550-64612-15

Date Collected: 06/06/16 12:40 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 13:16	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 13:43	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 12:29	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:37	CJD	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW71-616 — Lab Sample ID: 550-64612-15

Date Collected: 06/06/16 12:40
Date Received: 06/09/16 06:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW72-616 — Lab Sample ID: 550-64612-16

Date Collected: 06/06/16 11:52
Date Received: 06/09/16 06:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91623	06/16/16 14:10	BCB	TAL PHX
Total/NA	Analysis	300.0		20	91623	06/16/16 14:38	BCB	TAL PHX
Total/NA	Analysis	300.0		200	91851	06/20/16 12:56	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:42	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91297		ATH	TAL PHX
					(Start)	06/10/16 17:32		
					(End)	06/13/16 17:12		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-DUP-616 — Lab Sample ID: 550-64612-17

Date Collected: 06/05/16 00:00
Date Received: 06/09/16 06:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 16:14	BCB	TAL PHX
Total/NA	Analysis	300.0		100	91833	06/19/16 16:41	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:47	CJD	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		10	91715	06/16/16 19:53	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-EQB-616 — Lab Sample ID: 550-64612-18

Date Collected: 06/05/16 00:00
Date Received: 06/09/16 06:45
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 17:36	BCB	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-EQB-616

Lab Sample ID: 550-64612-18
Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:53	CJD	TAL PHX
Total/NA	Analysis	SM 2540C		1	91193		ATH	TAL PHX
					(Start)	06/09/16 13:02		
					(End)	06/10/16 16:32		
Total/NA	Analysis	SM 4500 H+ B		1	91181	06/09/16 11:10	YET	TAL PHX

Client Sample ID: FC-CCR-MW7-616

Lab Sample ID: 550-64612-19
Date Collected: 06/06/16 15:01
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 18:31	BCB	TAL PHX
Total/NA	Prep	200.7			91236	06/10/16 08:47	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91425	06/13/16 22:55	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 11:49	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:00	JTG	TAL PHX

Client Sample ID: FC-CCR-MW8-616

Lab Sample ID: 550-64612-20
Date Collected: 06/07/16 08:05
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 19:26	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:09	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 11:51	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:01	JTG	TAL PHX

Client Sample ID: FC-CCR-MW49A-616

Lab Sample ID: 550-64612-21
Date Collected: 06/07/16 09:18
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 21:43	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:14	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 11:53	TEK	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW49A-616 — Lab Sample ID: 550-64612-21

Date Collected: 06/07/16 09:18 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:06	JTG	TAL PHX

Client Sample ID: FC-CCR-MW60-616 — Lab Sample ID: 550-64612-22

Date Collected: 06/06/16 13:37 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 22:10	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:20	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 11:55	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:08	JTG	TAL PHX

Client Sample ID: FC-CCR-MW61-616 — Lab Sample ID: 550-64612-23

Date Collected: 06/06/16 14:22 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/19/16 23:05	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:25	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 11:57	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:09	JTG	TAL PHX

Client Sample ID: FC-CCR-MW62-616 — Lab Sample ID: 550-64612-24

Date Collected: 06/05/16 12:22 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 00:00	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:30	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:03	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:11	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW63-616 — Lab Sample ID: 550-64612-25

Date Collected: 06/05/16 14:39 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 00:55	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:36	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:06	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:12	JTG	TAL PHX

Client Sample ID: FC-CCR-MW64-616 — Lab Sample ID: 550-64612-26

Date Collected: 06/05/16 14:03 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 01:49	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:41	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:08	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:14	JTG	TAL PHX

Client Sample ID: FC-CCR-MW65-616 — Lab Sample ID: 550-64612-27

Date Collected: 06/05/16 11:45 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 03:39	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:44	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:10	TEK	TAL PHX
Total/NA	Prep	245.1			91495	06/14/16 16:52	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91587	06/15/16 16:15	JTG	TAL PHX

Client Sample ID: FC-CCR-MW66-616 — Lab Sample ID: 550-64612-28

Date Collected: 06/05/16 09:17 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 04:34	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:46	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW66-616 — Lab Sample ID: 550-64612-28

Date Collected: 06/05/16 09:17 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:12	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:49	JTG	TAL PHX

Client Sample ID: FC-CCR-MW67-616 — Lab Sample ID: 550-64612-29

Date Collected: 06/06/16 08:51 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		10	91833	06/20/16 05:56	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 15:56	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:14	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:57	JTG	TAL PHX

Client Sample ID: FC-CCR-MW68-616 — Lab Sample ID: 550-64612-30

Date Collected: 06/05/16 15:30 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 06:24	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:01	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:16	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:51	JTG	TAL PHX

Client Sample ID: FC-CCR-MW69-616 — Lab Sample ID: 550-64612-31

Date Collected: 06/06/16 08:10 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91833	06/20/16 07:18	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:06	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:22	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:59	JTG	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-MW70-616 — Lab Sample ID: 550-64612-32

Date Collected: 06/05/16 10:48 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91834	06/20/16 10:03	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:12	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:24	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:52	JTG	TAL PHX

Client Sample ID: FC-CCR-MW71-616 — Lab Sample ID: 550-64612-33

Date Collected: 06/06/16 12:40 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91834	06/20/16 10:58	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:17	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:26	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 16:00	JTG	TAL PHX

Client Sample ID: FC-CCR-MW72-616 — Lab Sample ID: 550-64612-34

Date Collected: 06/06/16 11:52 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91834	06/20/16 11:52	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:23	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:28	TEK	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		2	92156	06/23/16 14:02	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 16:04	JTG	TAL PHX

Client Sample ID: FC-CCR-DUP-616 — Lab Sample ID: 550-64612-35

Date Collected: 06/05/16 00:00 — **Matrix: Water**
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91834	06/20/16 12:47	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX

Lab Chronicle

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Client Sample ID: FC-CCR-DUP-616

Lab Sample ID: 550-64612-35

Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:26	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:30	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:54	JTG	TAL PHX

Client Sample ID: FC-CCR-EQB-616

Lab Sample ID: 550-64612-36

Date Collected: 06/05/16 00:00
Matrix: Water
Date Received: 06/09/16 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	91834	06/20/16 13:42	BCB	TAL PHX
Total/NA	Prep	200.7			91237	06/10/16 08:53	SGO	TAL PHX
Total/NA	Analysis	200.7 Rev 4.4		1	91392	06/13/16 16:32	CJD	TAL PHX
Total/NA	Prep	200.8			91247	06/10/16 09:48	SGO	TAL PHX
Total/NA	Analysis	200.8 LL		1	91933	06/21/16 12:32	TEK	TAL PHX
Total/NA	Prep	245.1			91665	06/16/16 13:10	JTG	TAL PHX
Total/NA	Analysis	245.1		1	91782	06/17/16 15:55	JTG	TAL PHX

Laboratory References:

Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225

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

Certification Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

Laboratory: TestAmerica Phoenix

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0728	06-09-17

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Arizona Public Service Company
Project/Site: CCR

TestAmerica Job ID: 550-64612-1

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
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PHX
SM 4500 H+ B	pH	SM	TAL PHX
Radium 226/228	General Sub Contract Method	NONE	Radiation

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.
NONE = NONE
SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

Radiation = Radiation Safety, 3245 North Washington Street, Chandler, AZ 85225
TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. · CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

TestAmerica Analytical Testing Corporation
4645 E. Cotton Center Blvd
Building #3, Suite #189
Phoenix, AZ 85040
Samples Received: June 10, 2016
Analysis Completed: June 27, 2016

Sample ID	Radium 226 Activity Method GammaRay HPGE (pCi/L)	Radium 228 Activity Method GammaRay HPGE (pCi/L)	Total Radium (pCi/L)
FC-CCR-MW7-616 (550-64612-19)	0.9 ± 0.2	2.4 ± 0.3	3.3 ± 0.4
FC-CCR-MW8-616 (550-64612-20)	< 0.5	1.3 ± 0.3	1.3 ± 0.3
FC-CCR-MW49A-616 (550-64612-21)	0.6 ± 0.1	1.8 ± 0.3	2.4 ± 0.3
FC-CCR-MW60-616 (550-64612-22)	0.8 ± 0.1	< 0.8	0.8 ± 0.1
FC-CCR-MW61-616 (550-64612-23)	< 0.4	< 0.8	< 0.8
FC-CCR-MW62-616 (550-64612-24)	< 0.4	1.1 ± 0.3	1.1 ± 0.3
FC-CCR-MW63-616 (550-64612-25)	< 0.4	< 0.8	< 0.8
FC-CCR-MW64-616 (550-64612-26)	< 0.4	< 0.8	< 0.8
FC-CCR-MW65-616 (550-64612-27)	< 0.4	< 0.8	< 0.8
FC-CCR-MW66-616 (550-64612-28)	0.6 ± 0.1	1.1 ± 0.3	1.7 ± 0.3
FC-CCR-MW67-616 (550-64612-29)	0.8 ± 0.1	1.2 ± 0.3	2.0 ± 0.3
FC-CCR-MW68-616 (550-64612-30)	0.8 ± 0.1	2.1 ± 0.3	2.9 ± 0.3
FC-CCR-MW69-616 (550-64612-31)	0.8 ± 0.1	2.4 ± 0.3	3.2 ± 0.3
FC-CCR-MW70-616 (550-64612-32)	0.5 ± 0.1	2.4 ± 0.3	2.9 ± 0.3
FC-CCR-MW71-616 (550-64612-33)	1.1 ± 0.1	2.1 ± 0.3	3.2 ± 0.3
FC-CCR-MW72-616 (550-64612-34)	0.5 ± 0.1	0.8 ± 0.2	1.3 ± 0.2
FC-CCR-DUP-616 (550-64612-35)	0.6 ± 0.1	1.3 ± 0.3	1.9 ± 0.3
FC-CCR-EQB-616 (550-64612-36)	0.7 ± 0.3	< 0.8	0.7 ± 0.3

6/27/2016
Robert L. Metzger, Ph.D., C.H.P. Date
Laboratory License Number: AZ0462

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
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 550-13677.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com		Page: Page 1 of 2
Company: Radiation Safety Eng., Inc.				Job #: 550-64612-1
Address: 3245 North Washington Street, ,	Due Date Requested: 6/21/2016			
City: Chandler	TAT Requested (days):			
State, Zip: AZ, 85225				
Phone:	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)	SUB (Radium 226/228)/ Radium 226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FC-CCR-MW7-616 (550-64612-19)	6/6/16	15:01 Arizona		Water			X	2	55289
FC-CCR-MW8-616 (550-64612-20)	6/7/16	08:05 Arizona		Water			X	2	55290
FC-CCR-MW49A-616 (550-64612-21)	6/7/16	09:18 Arizona		Water			X	2	55291
FC-CCR-MW60-616 (550-64612-22)	6/6/16	13:37 Arizona		Water			X	2	55292
FC-CCR-MW61-616 (550-64612-23)	6/6/16	14:22 Arizona		Water			X	2	55293
FC-CCR-MW62-616 (550-64612-24)	6/5/16	12:22 Arizona		Water			X	2	55294
FC-CCR-MW63-616 (550-64612-25)	6/5/16	14:39 Arizona		Water			X	2	55295
FC-CCR-MW64-616 (550-64612-26)	6/5/16	14:03 Arizona		Water			X	2	55296
FC-CCR-MW65-616 (550-64612-27)	6/5/16	11:45 Arizona		Water			X	2	55297
FC-CCR-MW66-616 (550-64612-28)	6/5/16	09:17 Arizona		Water			X	2	55298
FC-CCR-MW67-616 (550-64612-29)	6/6/16	08:51 Arizona		Water			X	2	55299

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)

Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Louie Bateman	6/10/16 13:15	T.A	Amir Haeri	6/10/16 13:15	RSE
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:

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
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Baker, Ken	Carrier Tracking No(s):	COC No: 550-13677.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: ken.baker@testamericainc.com		Page: Page 2 of 2
Company: Radiation Safety Eng., Inc.				Job #: 550-64612-1
Address: 3245 North Washington Street,	Due Date Requested: 6/21/2016			
City: Chandler	TAT Requested (days):			
State, Zip: AZ, 85225				
Phone:	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)	SUB (Radium 226/228)/ Radium 226/228	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FC-CCR-MW68-616 (550-64612-30)	6/5/16	15:30 Arizona		Water			X	2	55300
FC-CCR-MW69-616 (550-64612-31)	6/6/16	08:10 Arizona		Water			X	2	55301
FC-CCR-MW70-616 (550-64612-32)	6/5/16	10:48 Arizona		Water			X	2	55302
FC-CCR-MW71-616 (550-64612-33)	6/6/16	12:40 Arizona		Water			X	2	55303
FC-CCR-MW72-616 (550-64612-34)	6/6/16	11:52 Arizona		Water			X	2	55304
FC-CCR-DUP-616 (550-64612-35)	6/5/16	Arizona		Water			X	2	55305
FC-CCR-EQB-616 (550-64612-36)	6/5/16	Arizona		Water			X	2	55306

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:		
Relinquished by: LOUIE BATEMAN	Date/Time: 6/10/16 13:15	Company T.A	Received by: AMIR HAERI	Date/Time: 6/10/16 13:15	Company RSE	
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:			

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3
Phoenix, AZ 85040

phone 602.437.3340 fax 623.445.6192

64612

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

8/11/2016

Client Contact	Project Manager: Doug Lavarnway	Site Contact: Doug Lavarnway	Date: 6/8/16	COC No:
APS Four Corners	Tel/Fax: 928-288-1394	Lab Contact: Ken Baker	Carrier:	01 of 01 COCs
PO Box 355, MS 4915	Analysis Turnaround Time			Job No.
Fruitland, NM 87416	Calendar (C) or Work Days (W) _____			CCR
Phone: 928-587-0319	TAT if different from Below ___7 Days_____			No.
Fax:	☐ 2 weeks			
Project Name: CCR	☐ 1 week			
E-Mail Address: Douglas.Lavarnway@aps.com	☐ 2 days			
	☐ 1 day			

550-64612 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Perform MS / MSD (Y / N)	EPA 200.7 (B, Ca)	EPA 300.0 (Cl, F, SO4)	SM 2540C (TDS)	SM 4500-HB (pH)	Sample Specific Notes:
FC-CCR-MW7-616	6/6/16	1501	G	W	2	N	X	X	X	X	X	-01
FC-CCR-MW8-616	6/7/16	0805	G	W	2	N	X	X	X	X	X	-02
FC-CCR-MW49A-616	6/7/16	0918	G	W	2	N	X	X	X	X	X	-03
FC-CCR-MW60-616	6/6/16	1337	G	W	2	N	X	X	X	X	X	-04
FC-CCR-MW61-616	6/6/16	1422	G	W	2	N	X	X	X	X	X	-05
FC-CCR-MW62-616	6/5/16	1222	G	W	2	N	X	X	X	X	X	-06
FC-CCR-MW63-616	6/5/16	1439	G	W	2	N	X	X	X	X	X	-07
FC-CCR-MW64-616	6/5/16	1403	G	W	2	N	X	X	X	X	X	-08
FC-CCR-MW65-616	6/5/16	1145	G	W	2	N	X	X	X	X	X	-09
FC-CCR-MW66-616	6/5/16	0917	G	W	2	N	X	X	X	X	X	-10
FC-CCR-MW67-616	6/6/16	0851	G	W	2	N	X	X	X	X	X	-11
FC-CCR-MW68-616	6/5/16	1530	G	W	2	N	X	X	X	X	X	-12

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

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

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

Special Instructions/QC Requirements & Comments:

4.5 | 3.0 | 3.1 | 4.7°c

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Doug Lavarnway	APS	6/8 1845			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA	6/9/16 6:45

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3
Phoenix, AZ 85040

phone 602.437.3340 fax 623.445.6192

64612

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

8/11/2016

Client Contact	Project Manager: Doug Lavarnway	Site Contact: Doug Lavarnway	Date: 6/8/16	COC No:
APS Four Corners	Tel/Fax: 928-288-1394	Lab Contact: Ken Baker	Carrier:	12 of 14 COCs
PO Box 355, MS 4915	Analysis Turnaround Time			Job No. CCR
Fruitland, NM 87416	Calendar (C) or Work Days (W) _____			
Phone: 928-587-0319	TAT if different from Below 7 Days			
Fax:	☐ 2 weeks			SDG No.
Project Name: CCR	☐ 1 week			
E-Mail Address:	☐ 2 days			
douglas.lavarnway@APS.com	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Perform MS / MSD (Y / N)	EPA 200.7 (B, Ca)	EPA 300.0 (Cl, F, SO4)	SM 2540C (TDS)	SM 4500-HB (pH)	Sample Specific Notes:
FC-CCR-MW69-616	6/6/16	810	G	W	2	N	X	X	X	X	X	-13
FC-CCR-MW70-616	6/5/16	1048	G	W	2	N	X	X	X	X	X	-14
FC-CCR-MW71-616	6/6/16	1240	G	W	2	N	X	X	X	X	X	-15
FC-CCR-MW72-616	6/6/16	1152	G	W	2	N	X	X	X	X	X	-16
												-17
												-18

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

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

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

Special Instructions/QC Requirements & Comments:

4.5 | 3.0 | 3.1 | 4.7

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Doug Lavarnway	APS	6/8 1845			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: TA	Date/Time: 6/9/16 6:45

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3
Phoenix, AZ 85040

phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

64612

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

8/11/2016

Client Contact	Project Manager: Doug Lavarnway	Site Contact: Doug Lavarnway	Date: 6/8/16	COC No:
APS Four Corners	Tel/Fax: 928-587-0319	Lab Contact: Ken Baker	Carrier:	13 of 14 COCs
PO Box 355, MS 4915	Analysis Turnaround Time			Job No.
Fruitland, NM 87416	Calendar (C) or Work Days (W) _____			
Phone:	TAT if different from Below ___7 Days_____			
Fax:	☐ 2 weeks			SDG No.
Project Name: CCR	☐ 1 week			
E-Mail Address:	☐ 2 days			
Douglas.Lavarnway@APS.com	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Perform MS / MSD (Y / N)	EPA 200.7 (Be, Li)	200.8 (Sb, As, Ba, Cd, Cr, Co, Pb, Mo, Se, Tl)	932.0 Radium 226 and 228	EPA 245.1 (Hg)	EPA 300.0 (F)	Sample Specific Notes:
FC-CCR-MW7-616	6/6/16	1501	G	W	4	N	X	X	X	X	X	X	-19
FC-CCR-MW8-616	6/7/16	0805	G	W	4	N	X	X	X	X	X	X	-20
FC-CCR-MW49A-616	6/7/16	0918	G	W	4	N	X	X	X	X	X	X	-21
FC-CCR-MW60-616	6/6/16	1337	G	W	4	N	X	X	X	X	X	X	-22
FC-CCR-MW61-616	6/6/16	1422	G	W	4	N	X	X	X	X	X	X	-23
FC-CCR-MW62-616	6/5/16	1022	G	W	4	N	X	X	X	X	X	X	-24
FC-CCR-MW63-616	6/5/16	1439	G	W	4	N	X	X	X	X	X	X	-25
FC-CCR-MW64-616	6/5/16	1403	G	W	4	N	X	X	X	X	X	X	-26
FC-CCR-MW65-616	6/5/16	1145	G	W	4	N	X	X	X	X	X	X	-27
FC-CCR-MW66-616	6/5/16	0917	G	W	4	N	X	X	X	X	X	X	-28
FC-CCR-MW67-616	6/6/16	0857	G	W	4	N	X	X	X	X	X	X	-29
FC-CCR-MW68-616	6/5/16	1530	G	W	4	N	X	X	X	X	X	X	-30

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

Possible Hazard Identification
☑ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown*

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

Special Instructions/QC Requirements & Comments:

4.5 | 3.0 | 3.1 | 4.7

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Doug Lavarnway	APS	6/8 1845			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TA	Date/Time: 6/9/16 6:45

TestAmerica Phoenix
4645 E Cotton Ctr Blvd Bdg 3
Phoenix, AZ 85040

phone 602.437.3340 fax 623.445.6192

Chain of Custody Record

64612

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

8/11/2016

Client Contact	Project Manager: Doug Lavarnway	Site Contact: Doug Lavarnway	Date: 6/8/16	COC No:
APS Four Corners	Tel/Fax: 928-587-0319	Lab Contact: Ken Baker	Carrier:	14 of 14 COCs
PO Box 355, MS 4915	Analysis Turnaround Time			Job No.
Fruitland, NM 87416	Calendar (C) or Work Days (W) _____			
Phone:	TAT if different from Below ___7 Days_____			SDG No.
Fax:	☐ 2 weeks			
Project Name: CCR	☐ 1 week			
E-Mail Address:	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Perform MS / MSD (Y / N)	EPA 200.7 (Be, Li)	200.8 (Sb, As, Ba, Cd, Cr, Co, Pb, Mo, Se, Tl)	932.0 Radium 226 and 228	EPA 245.1 (Hg)	EPA 300.0 (F)	Sample Specific Notes:
FC-CCR-MW69-616	6/6/16	810	G	W	4	N	X	X	X	X	X	X	-31
FC-CCR-MW70-616	6/5/16	1048	G	W	4	N	X	X	X	X	X	X	-32
FC-CCR-MW71-616	6/6/16	1240	G	W	4	N	X	X	X	X	X	X	-33
FC-CCR-MW72-616	6/6/16	1152	G	W	4	N	X	X	X	X	X	X	-34
													-35
													-36

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

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Special Instructions/QC Requirements & Comments:

4.5 | 3.0 | 3.1 | 4.7

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Doug Lavarnway	APS	6/8 1845			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TA	Date/Time: 6/9/16 6:45

Login Sample Receipt Checklist

Client: Arizona Public Service Company

Job Number: 550-64612-1

Login Number: 64612
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.	False	Refer to Job Narrative for details.
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.	N/A	Check done at department level as required.