FREEPORT-McMoRan

Sierrita Operations
Environment, Land & Water Department
6200 West Duval Mine Road
PO Box 527
Green Valley, Arizona 85622-0527

November 14, 2016

FedEx # 7776 8939 3680
Return Receipt Requested

Ms. Nirupma Bhatia
Arizona Department of Environmental Quality
Water Quality Compliance Section
1110 West Washington Street
Phoenix, Arizona 85007-2935

Re: Mitigation Order on Consent Docket No. P-50-06 Semi-annual Groundwater Monitoring Report Second and Third Quarter 2016

Dear Ms. Bhatia:

In accordance with Section 5.1.2 of the Mitigation Plan[1], Freeport-McMoRan Sierrita Inc. (Sierrita) submits the enclosed *Semi-annual Groundwater Monitoring Report for Samples Collected during the Second and Third Quarter 2016*, prepared by Clear Creek Associates for Sierrita.

This document provides results of groundwater monitoring conducted during the above mentioned time frame, which Sierrita agreed to submit semiannually in accordance with the letter from ADEQ dated April 17, 2009[2].

Please do not hesitate to contact me at (520) 393-2347 if you have any questions regarding this submittal.

Sincerely,

Deborah L. Chismar

Deborah Chismar
Sr. Environmental Specialist
Freeport-McMoRan Sierrita Inc.

DLC/dc
Attachment
20161114_001

xc: Dave Caskey, Freeport-McMoRan Sierrita Inc.
Stuart Brown, Freeport-McMoRan Inc.
Jim Norris, Clear Creek Associates

[1] Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.
[2] Correspondence from Ned Hall, Sierrita, to Cynthia S. Campbell, ADEQ Water Quality Compliance Section, Re: Mitigation Order on Consent Docket No. P-50-06 – Response to ADEQ Comments on Recommended Groundwater Monitoring for Sulfate – May 15, 2009.

SEMIANNUAL GROUNDWATER MONITORING REPORT FOR SAMPLES COLLECTED DURING THE SECOND AND THIRD QUARTERS 2016

MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06 PIMA COUNTY, ARIZONA



Prepared for:

FREEPORT-MCMORAN SIERRITA INC.
6200 West Duval Mine Road
Green Valley, Arizona 85614

Prepared by:

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November 14, 2016

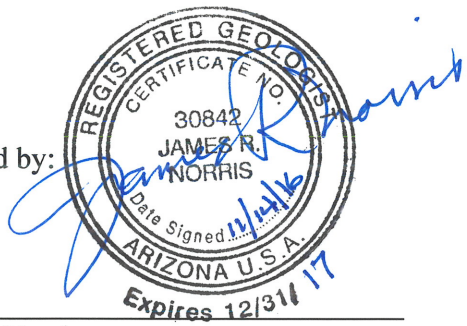
SEMIANNUAL GROUNDWATER MONITORING REPORT FOR SAMPLES COLLECTED DURING THE SECOND AND THIRD QUARTERS 2016

MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06 PIMA COUNTY, ARIZONA

Prepared for:

FREEPORT-MCMORAN SIERRITA INC.
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Green Valley, Arizona 85614

Approved by:



James R. Norris
Arizona Registered Geologist No. 30842

November 14, 2016

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1. INTRODUCTION

This report provides the results of groundwater monitoring conducted in the second and third quarters 2016 in the vicinity of the Freeport-McMoRan Sierrita Inc. (Sierrita) Tailing Impoundment (STI). Groundwater monitoring is conducted by Sierrita to characterize groundwater sulfate concentrations and groundwater elevations in the vicinity of the STI pursuant to the Mitigation Order on Consent Docket No. P-50-06 between Arizona Department of Environmental Quality (ADEQ) and Sierrita. This semiannual groundwater monitoring report was prepared by Clear Creek Associates on behalf of Sierrita.

1.1 Scope of Groundwater Monitoring

Sierrita is conducting a mitigation action consisting of operation of a groundwater pumping and water reuse system to control the migration of a groundwater plume of sulfate and to prevent sulfate concentrations in drinking water supplies from exceeding 250 milligrams per liter (mg/L) at the point of use, due to the STI. Groundwater monitoring for the mitigation action is conducted to track plume migration and monitor for sulfate in drinking water supplies. The mitigation action is described in the Mitigation Plan (Clear Creek Associates, 2013) approved by ADEQ (ADEQ, 2015).

Groundwater pumping under the Mitigation Plan commenced in January 2014. The Mitigation Plan contains a "Post-Implementation Groundwater Monitoring Plan" for monitoring after startup of the mitigation wellfield. The Post-Implementation Groundwater Monitoring Plan was implemented in the first quarter 2014 and was used for monitoring in the second and third quarters of 2016. Pursuant to the Mitigation Plan, groundwater monitoring reports will be submitted to ADEQ semiannually. As described in the Mitigation Plan, the groundwater monitoring reports are primarily to transmit monitoring data to ADEQ with little interpretation. Analysis and interpretation of monitoring data will be conducted for mitigation performance review reports (e.g. Clear Creek Associates, 2016b).

Table 1 lists the wells identified for annual, quarterly, and semiannual monitoring for the Post-Implementation Groundwater Monitoring Plan. Figure 1 shows the well locations and sampling frequency.

Sierrita developed, and ADEQ concurred with, a Contingency Plan (Clear Creek Associates, 2016a) that would be implemented if Sierrita went to 50% or less production – which did not happen. The Contingency Plan included increased frequency of monitoring at wells M-8, M-9,

M-10, ESP-2, and ESP-3, and installation of additional monitor wells at the downgradient end of the plume. Even though Sierrita did not implement the Contingency Plan, it did conduct the more frequent monitoring and installed monitor wells MW-2016-05A, MW-2016-05B, and MW-2016-06 in the third quarter 2016. These wells are north and northwest of the intersection of Duval Mine Road and La Canada Drive, at the north end of the plume. Clear Creek Associates oversaw the design, installation, and initial sampling of these wells. Water level and sulfate analyses for the new monitor wells are reported for the third quarter 2016. The wells were added to the Post-Implementation Groundwater Monitoring Plan.

Dissolved sulfate is the only constituent analyzed. The groundwater sampling and analysis methods followed by Sierrita are described in the Quality Assurance Project Plan (QAPP) contained in Appendix E of the Work Plan developed for the Mitigation Order (Hydro Geo Chem, Inc, 2006). The results of groundwater monitoring for the second and third quarters 2016 are presented in Section 2.1.

2. GROUNDWATER MONITORING

2.1 Monitoring Results

Table 2 summarizes the monitoring conducted in the second and third quarters 2016. Analytical results and groundwater elevation data for the second and third quarters 2016 are tabulated in Tables 3 and 4, respectively.

Figures 2 and 3 show the concentrations of dissolved sulfate in the wells sampled in second and third quarters 2016, respectively. The highest sulfate concentration measured at co-located wells was used for concentration contouring. Sulfate concentrations are reported as received from the laboratory with no modifications to the number of significant figures.

Groundwater elevations in the second and third quarters 2016 are presented on Figures 4 and 5, respectively. These figures show the most recent measurement for wells with multiple water level measurements during the quarter. The highest contemporaneous water level measured at co-located wells was used for groundwater elevation contouring. The groundwater elevation data for third quarter 2016 (Figure 5) were not contoured due to the sparseness of the measurements.

Groundwater elevations were calculated using depth to water measurements taken under non-pumping (static) conditions at most wells. Depth to water may also have been measured under pumping (dynamic) conditions at Mitigation Plan extraction wells, public drinking water supply wells, and agricultural irrigation wells. Table 4 and Figures 4 and 5 note which water level data are static and which are dynamic. The dynamic water levels can be lower than nearby static water levels because pumping lowers the water table in the vicinity of the extraction wells. Areas of depressed water table around pumping wells are depicted on Figure 4.

2.2 Quality Assurance/Quality Control Review

Pursuant to Section 6.4 of the QAPP, a data verification report was prepared for quality assurance and quality control purposes. The data verification report reviews the groundwater data collected by Sierrita during the second and third quarters 2016 with respect to data quality objectives in the QAPP, and is included as Appendix A. Analytical laboratory reports for samples collected in the second and third quarters 2016 are provided in portable document format on the compact diskette in Appendix B. As described in the data verification report, all data are of acceptable quality for use in the groundwater monitoring program conducted pursuant to the Mitigation Order.

3. FINDINGS

This semiannual data report provides the results of groundwater monitoring conducted in the vicinity of the STI for the second and third quarters 2016. Groundwater samples were collected from 61 plume area wells and depth to water measurements were collected from 106 wells during the second quarter of 2016. In the third quarter of 2016, groundwater samples were collected from 55 plume area wells and depth to water measurements were collected from 30 plume area wells.

Well sampling for the second quarter 2016 was conducted according to the Post-Implementation Groundwater Monitoring Plan except at CC of GV, ESP-1, I-10, IW-3A, IW-5A, IW-6A, IW-9, IW-10, IW-11, IW-13, IW-20, IW-23, and IW-29, which were inoperable; M-8, M-10, MH-25B, MH-25C, MH-26B, MH-26C, NP-2, and TMM-1, which had water levels below the pump and sounding tube; MH-26A, which was dry; and MH-29, MO-2007-1B, MO-2007-1C, MO-2007-2, MO-2007-5C, and MO-2007-6B, which had insufficient discharge volume to collect a sample. Well sampling for the third quarter 2016 was conducted according to the Post-Implementation Groundwater Monitoring Plan except at GV-02-GVDWID which was inoperable and M-10 which had a water level below the pump and sounding tube. In the third quarter 2016, Sierrita lowered the pumps and sounding tubes in wells M-8, MH-25B, MH-25C, MH-26B, MH-26C, MO-2007-5C, MO-2007-6B, and NP-2, which had become dewatered due to declining water levels in the vicinity of the plume. The pumps in wells CW-3 and MO-2007-5B were also lowered because water levels were approaching the pump intakes.

Comparison of the sulfate concentration data for the second and third quarters 2016 with data collected in previous quarters indicates that there has not been any significant change to the overall plume geometry since 2006, except in the vicinity of the MO-2007-1 wells where northward migration of the plume occurred prior to implementation of the Mitigation Plan. The hydraulic gradient has decreased in the vicinity of the MO-2007-1 wells due to mitigation action pumping. The decrease in the hydraulic gradient has decreased the velocity of the plume in that area as discussed in the mitigation performance review for 2015 (Clear Creek Associates, 2016b).

Data collected at the newly installed monitoring wells MW-2016-05A, MW-2016-05B, and MW-2016-06 provides additional information on conditions at the north end of the plume. The 250 mg/L sulfate concentration contour for the third quarter 2016 is depicted on Figure 3 as being approximately 800 feet north of the second quarter contour shown on Figure 2, based on

The sulfate concentration in a sample from MW-2016-06[1]. The low sulfate concentrations in samples from MW-2016-05A and MW-2016-05B indicate the plume has less eastward migration than previously interpreted for this area (Figures 2 and 3).

The water elevations measured in MW-2016-05A, MW-2016-05B, and MW-2016-06 confirm the existence of a small hydraulic gradient at the front of the plume and indicate a reverse hydraulic gradient with respect to well M-9. Additional monitoring is needed to verify the initial results from the new wells. If verified, the reverse hydraulic gradient would indicate that the plume is no longer advancing northward.

In 2014, the start of pumping at the FFS, PS, and MC wells caused convergent groundwater flow patterns and water elevation depressions to develop in the vicinity of these extraction wells. Similar water elevation depressions also occur around many of the IW wells, as shown in Figure 4. The water table depressions constitute hydraulic sinks that are interpreted to be due to the constructive interference of overlapping drawdown cones associated with the extraction wells. The hydraulic sinks around the FFS, PS, and MC wells operate in conjunction with the IW wells to capture the sulfate plume. The mitigation performance review (Clear Creek Associates, 2016b) provides an analysis of the plume capture attained by groundwater pumping in 2015.

Appendix C presents time series graphs of sulfate concentrations at drinking water supply wells, sentinel wells, and select monitoring wells. Sulfate concentration data indicate that concentrations at drinking water supply wells are less than the mitigation action objective of 250 mg/L and less than the interim action trigger level of 135 mg/L established in the Mitigation Plan (Clear Creek Associates, 2013). Sulfate concentrations at sentinel wells are less than the 135 mg/L interim action trigger level. Appendix D includes graphs of water level data over time for sentinel wells and water supply wells.

[1] The 250 mg/L sulfate contour north of the MO-2007-1 wells for the second quarter 2016 (Figure 2) is drawn based on the calculated distance that the sulfate plume would have migrated from the MO-2007-1 wells since groundwater concentrations at MO-2007-1C exceeded 250 mg/L in the fourth quarter 2009. The 250 mg/L sulfate contour north of the MO-2007-1 wells for the third quarter 2016 (Figure 3) is inferred based on sulfate sampling results at MW-2016-06 and M-9.

4. REFERENCES

Arizona Department of Environmental Quality (ADEQ), 2105. Correspondence from Madeline Keller, ADEQ, to Deborah L. Chismar, Sierrita, Re: Review of the Response to ADEQ's Review of the Mitigation Plan for Sulfate with Respect to the Drinking Water Supplies in the Vicinity of the Freeport-McMoRan Sierrita Inc. Tailing Impoundment, November 20, 2015.

Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

Clear Creek Associates. 2016a. Contingency Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. February 17, 2016.

Clear Creek Associates. 2016b. Mitigation Performance Review for 2015, Mitigation Order on Consent Docket No, P-50-06. April 26, 2016.

Hydro Geo Chem, Inc. (HGC). 2006. Work Plan to Characterize and Mitigate Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Phelps Dodge Sierrita Tailing Impoundment, Pima County, Arizona. August 11, 2006, revised October 31, 2006.

TABLES

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring (as of 10/11/16)

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
CC of GV	501760	Monitor	Sierrita		SO4		
CCGV2	627484	Monitor	CWC		WLO		WLO
CW-3	627483	Monitor	CWC		SO4+WL		SO4+WL
CW-6	627485	DWS	CWC	SO4+WL	SO4+WL	SO4+WL	SO4+WL
CW-7	502546	Monitor	CWC		WLO		WLO
CW-8	543600	Monitor	CWC		WLO		WLO
CW-9	588121	DWS	CWC	SO4+WL	SO4+WL	SO4+WL	SO4+WL
CW-10	207982	DWS	CWC	SO4+WL	SO4+WL	SO4+WL	SO4+WL
CW-11	608518	DWS	CWC		WLO		WLO
ESP-1	623102	Monitor	Sierrita		SO4+WL		SO4+WL
ESP-2	623103	Monitor	Sierrita	SO4+WL[1]	SO4+WL	SO4+WL[1]	SO4+WL
ESP-3	623104	Monitor	Sierrita	SO4+WL[1]	SO4+WL	SO4+WL[1]	SO4+WL
ESP-4	623105	Monitor	Sierrita		SO4+WL		SO4+WL
ESP-5	623106	Monitor	Sierrita		WLO		WLO
FFS-1	221662	Extraction	Sierrita		SO4+WL		WLO
FFS-2	221663	Extraction	Sierrita		SO4+WL		WLO
FFS-3	221664	Extraction	Sierrita		SO4+WL		WLO
FFS-4	221665	Extraction	Sierrita		SO4+WL		WLO
FFS-5	221666	Extraction	Sierrita		SO4+WL		WLO
FFS-6	221667	Extraction	Sierrita		SO4+WL		WLO
FICO C-4	624010	Ag Extraction	FICO		WLO		WLO
FICO E-6	624013	Ag Extraction	FICO		WLO		WLO
GV-01-GVDWID	603428	DWS	GVDWID	SO4+WL	SO4+WL	SO4+WL	SO4+WL
GV-01-PCWW	509603	Monitor	Pima County		WLO		WLO
GV-02-GVDWID	603429	DWS	GVDWID	SO4+WL	SO4+WL	SO4+WL	SO4+WL
GV-02-PCWW	509604	Monitor	Pima County		WLO		WLO
GV-SI-GVDWID	208825	DWS	GVDWID		SO4+WL		WLO
HAVEN GOLF	515867	Monitor	Haven Golf		SO4+WL		WLO
I-10	608525	Monitor	Sierrita		SO4+WL		WLO
IW-1	623129	Extraction	Sierrita		SO4+WL		WLO
IW-2A	216464	Extraction	Sierrita		SO4+WL		WLO
IW-3A	201732	Extraction	Sierrita		SO4+WL		WLO
IW-4	623132	Extraction	Sierrita		SO4+WL		WLO
IW-5A	219131	Extraction	Sierrita		SO4+WL		WLO
IW-6A	545565	Extraction	Sierrita		SO4+WL		WLO
IW-8	508236	Extraction	Sierrita		SO4+WL		WLO
IW-9	508238	Extraction	Sierrita		SO4+WL		WLO
IW-10	508237	Extraction	Sierrita		SO4+WL		WLO
IW-11	508235	Extraction	Sierrita		SO4+WL		WLO
IW-12	545555	Extraction	Sierrita		SO4+WL		WLO

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring (as of 10/11/16)

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
IW-13	545556	Extraction	Sierrita		SO4+WL		WLO
IW-14	545557	Extraction	Sierrita		SO4+WL		WLO
IW-15	545558	Extraction	Sierrita		SO4+WL		WLO
IW-16	545559	Monitor	Sierrita		WLO		WLO
IW-17	545560	Monitor	Sierrita		WLO		WLO
IW-18	545561	Monitor	Sierrita		WLO		WLO
IW-19	545562	Extraction	Sierrita		SO4+WL		WLO
IW-20	545563	Extraction	Sierrita		SO4+WL		WLO
IW-21	545564	Extraction	Sierrita		SO4+WL		WLO
IW-22	200554	Extraction	Sierrita		SO4+WL		WLO
IW-23	200555	Extraction	Sierrita		SO4+WL		WLO
IW-24	200556	Extraction	Sierrita		SO4+WL		WLO
IW-25	219596	Extraction	Sierrita		SO4+WL		WLO
IW-26	219143	Extraction	Sierrita		SO4+WL		WLO
IW-27	219136	Extraction	Sierrita		SO4+WL		WLO
IW-28	219137	Extraction	Sierrita		SO4+WL		WLO
IW-29	222865	Extraction	Sierrita		SO4+WL		WLO
M-5	87387	Monitor	Sierrita		WLO		WLO
M-8	87390	Monitor	Sierrita	SO4+WL[1]	SO4+WL	SO4+WL[1]	SO4+WL
M-9	501652	Monitor	Sierrita	SO4+WL[1]	SO4+WL	SO4+WL[1]	WLO
M-10	501653	Monitor	Sierrita	SO4+WL[1]	SO4+WL	SO4+WL[1]	SO4+WL
M-11	501654	Monitor	Sierrita		WLO		WLO
M-13	508428	Monitor	Sierrita		WLO		WLO
M-20	906595	Monitor	Sierrita		SO4+WL		WLO
MC-1	221660	Extraction	Sierrita		SO4+WL		WLO
MC-2	221761	Extraction	Sierrita		SO4+WL		WLO
MC-3	221661	Extraction	Sierrita		SO4+WL		WLO
MC-4	220842	Extraction	Sierrita		SO4+WL		WLO
MH-1	803629	Monitor	Sierrita		WLO		WLO
MH-3	803630	Monitor	Sierrita		WLO		WLO
MH-5	803632	Monitor	Sierrita		WLO		WLO
MH-6	803633	Monitor	Sierrita		WLO		WLO
MH-7	803634	Monitor	Sierrita		WLO		WLO
MH-9	803635	Monitor	Sierrita		WLO		WLO
MH-10	803636	Monitor	Sierrita		SO4+WL		WLO
MH-11	803637	Monitor	Sierrita		SO4+WL		WLO
MH-13A	904071	Monitor	Sierrita		SO4+WL		WLO
MH-13B	904072	Monitor	Sierrita		SO4+WL		WLO
MH-13C	904073	Monitor	Sierrita		SO4+WL		WLO

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring (as of 10/11/16)

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MH-14	528098	Monitor	Sierrita		WLO		WLO
MH-15E	528094	Monitor	Sierrita		WLO		WLO
MH-15W	528093	Monitor	Sierrita		WLO		WLO
MH-16E	528100	Monitor	Sierrita		WLO		WLO
MH-16W	528099	Monitor	Sierrita		WLO		WLO
MH-24	563799	Monitor	Sierrita		WLO		WLO
MH-25A	201528	Monitor	Sierrita		SO4+WL		WLO
MH-25B	208429	Monitor	Sierrita		SO4+WL		WLO
MH-25C	208426	Monitor	Sierrita		SO4+WL		WLO
MH-26A	201527	Monitor	Sierrita		SO4+WL		WLO
MH-26B	208427	Monitor	Sierrita		SO4+WL		WLO
MH-26C	208428	Monitor	Sierrita		SO4+WL		WLO
MH-28	903648	Monitor	Sierrita		SO4+WL		SO4+WL
MH-29	903649	Monitor	Sierrita		SO4+WL		SO4+WL
MH-30	903884	Monitor	Sierrita		SO4+WL		WLO
MO-2007-1A	907342	Monitor	Sierrita		SO4+WL		SO4+WL
MO-2007-1B	907210	Monitor	Sierrita		SO4+WL		SO4+WL
MO-2007-1C	907209	Monitor	Sierrita		SO4+WL		SO4+WL
MO-2007-2	906765	Monitor	Sierrita		SO4+WL		WLO
MO-2007-3B[2]	906816	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-3C[2]	906817	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4A[3]	907213	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4B[3]	907212	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4C[3]	907211	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-5B	907456	Monitor	Sierrita		SO4+WL		SO4+WL
MO-2007-5C	907457	Monitor	Sierrita		SO4+WL		SO4+WL
MO-2007-6A[4]	907607	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-6B[4]	907606	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2009-1[5]	910458	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MW-2016-5A	919635	Monitor	Sierrita	Quarterly during Contingency Plan or until second quarter 2018.			
MW-2016-5B	919472	Monitor	Sierrita	Quarterly during Contingency Plan or until second quarter 2018.			
MW-2016-06	919676	Monitor	Sierrita	Quarterly during Contingency Plan or until second quarter 2018.			
NP-2[2]	605898	Sentinel	CWC	SO4+WL	SO4+WL	SO4+WL	SO4+WL
PS-1	220861	Extraction	Sierrita		SO4+WL		WLO
PS-2	220862	Extraction	Sierrita		SO4+WL		WLO
PS-3	220863	Extraction	Sierrita		SO4+WL		WLO
PS-4	220864	Extraction	Sierrita		SO4+WL		WLO
PZ-7	561870	Monitor	Sierrita		SO4+WL		WLO
PZ-8	561866	Monitor	Sierrita		SO4+WL		WLO
S-1	623111	Extraction	Sierrita		WLO		WLO
ST-6	608530	DWS	LQSWC		WLO		WLO
TMM-1	616156	Monitor	Pima County		SO4+WL		SO4+WL

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring (as of 10/11/16)

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1225	634394	Monitor	Sierrita		WLO		WLO
1350	ND	Monitor	Sierrita		WLO		WLO
1759	634393	Monitor	Sierrita		WLO		WLO
2125	514015	Monitor	Sierrita		WLO		WLO

Notes:
ADWR = Arizona Department of Water Resources
Ag = agricultural
CC OF GV = Country Club of Green Valley
CWC = Community Water Company of Green Valley
DWS = Drinking Water Supply
FICO - Farmers Investment Company
GVDWID = Green Valley Domestic Water Improvement District
GVPCWW = Green Valley Pima County Wastewater Reclamation Facility
LQSWC = Las Quintas Serenas Water Company
ND = No Data
Sierrita = Freeport-McMoRan Sierrita Inc.
SO4 = Water Sample for Sulfate Analysis, WL = Water Level Measurement, WLO = Water Level Measurement Only
[1] *First and third quarter sampling pursuant to Contingency Plan*
[2] *Sentinel Well for CW-9*
[3] *Sentinel Well for CW-6*
[4] *Sentinel Well for GV-01-GVDWID and GV-02-GVDWID*
[5] *Sentinel Well for CW-10*

TABLE 2
Monitoring Summary - Second and Third Quarters 2016

Well Name	ADWR 55 Well Registry No.	Second Quarter 2016				Third Quarter 2016			
		Requirement	Sample Collected	Water Level Collected	Comment	Requirement	Sample Collected	Water Level Collected	Comment
CC of GV	501760	SO4+WL	N	N	Well is not operational.	NONE	N	N	Not scheduled for third quarter 2016.
CCGV2	627484	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
CW-3	627483	SO4+WL	Y	Y	Water sample collected in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
CW-6	627485	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in August 2016..
CW-7	502546	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
CW-8	543600	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
CW-9	588121	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in August 2016..
CW-10	207982	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in August 2016..
CW-11	608518	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
ESP-1	623102	SO4+WL	N	N	Well is not operational.	NONE	N	N	Not scheduled for third quarter 2016.
ESP-2	623103	SO4+WL	Y	Y	Water sample collected in June 2016.	SO4+WL	Y	Y	Water sample collected in September 2016.
ESP-3	623104	SO4+WL	Y	Y	Water sample collected in June 2016.	SO4+WL	Y	Y	Water sample collected in September 2016.
ESP-4	623105	SO4+WL	Y	Y	Water sample collected in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
ESP-5	623106	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
FFS-1	221662	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
FFS-2	221663	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
FFS-3	221664	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
FFS-4	221665	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
FFS-5	221666	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
FFS-6	221667	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
FICO C-4	624010	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
FICO E-6	624013	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
GV-01-GVDWID	603428	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in August 2016..
GV-01-PCWW	509603	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
GV-02-GVDWID	603429	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	N	Y	Well is not operational. Water level measured in August 2016.
GV-02-PCWW	509604	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
GV-SI-GVDWID	208825	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
HAVEN GOLF	515867	SO4+WL	Y	N	Water sample collected in June 2016. Water level not measured due to lack of sounding line.	NONE	N	N	Not scheduled for third quarter 2016.
I-10	608525	SO4+WL	N	Y	Well is not operational. Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.

CLEAR CREEK ASSOCIATES

TABLE 2
Monitoring Summary - Second and Third Quarters 2016

Well Name	ADWR 55 Well Registry No.	Second Quarter 2016				Third Quarter 2016			
		Requirement	Sample Collected	Water Level Collected	Comment	Requirement	Sample Collected	Water Level Collected	Comment
IW-1	623129	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-2A	216464	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-3A	201732	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-4	623132	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-5A	219131	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-6A	545565	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-8	508236	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-9	508238	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-10	508237	SO4+WL	N	N	Well is not operational.	NONE	Y	N	Water sample collected in August 2016.
IW-11	508235	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-12	545555	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-13	545556	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-14	545557	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-15	545558	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-16	545559	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-17	545560	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-18	545561	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-19	545562	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-20	545563	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-21	545564	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-22	200554	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in September 2016.
IW-23	200555	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.

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Monitoring Summary - Second and Third Quarters 2016

Well Name	ADWR 55 Well Registry No.	Second Quarter 2016				Third Quarter 2016			
		Requirement	Sample Collected	Water Level Collected	Comment	Requirement	Sample Collected	Water Level Collected	Comment
IW-24	200556	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-25	219596	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
IW-26	219143	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-27	219136	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-28	219137	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
IW-29	222865	SO4+WL	N	Y	Well is not operational. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
M-5	87387	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
M-8	87390	SO4+WL	N	N	Water level is below pump and sounding tube.	SO4+WL	Y	Y	Water sample collected in August 2016.
M-9	501652	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in August 2016.
M-10	501653	SO4+WL	N	N	Water level is below pump and sounding tube.	SO4+WL	N	N	Water level is below pump and sounding tube.
M-11	501654	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
M-13	508428	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
M-20	906595	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MC-1	221660	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
MC-2	221761	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
MC-3	221661	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
MC-4	220842	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
MH-1	803629	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-3	803630	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-5	803632	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-6	803633	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-7	803634	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-9	803635	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-10	803636	SO4+WL	Y	Y	Water sample collected in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-11	803637	SO4+WL	Y	Y	Water sample collected in May 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-13A	904071	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-13B	904072	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-13C	904073	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-14	528098	WLO	N	Y	Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.

CLEAR CREEK ASSOCIATES

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Monitoring Summary - Second and Third Quarters 2016

Well Name	ADWR 55 Well Registry No.	Second Quarter 2016				Third Quarter 2016			
		Requirement	Sample Collected	Water Level Collected	Comment	Requirement	Sample Collected	Water Level Collected	Comment
MH-15E	528094	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-15W	528093	WLO	N	N	Water level is below sounding tube.	NONE	N	N	Not scheduled for third quarter 2016.
MH-16E	528100	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-16W	528099	WLO	N	Y	Water level measured in April 2016.	NONE	N	Y	Water level measured in August 2016.
MH-24	563799	WLO	N	N	Water level is below pump and sounding tube.	NONE	N	N	Not scheduled for third quarter 2016.
MH-25A	201528	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MH-25B	208429	SO4+WL	N	N	Water level is below sounding tube.	NONE	Y	Y	Water quality sample collected in September 2016.
MH-25C	208426	SO4+WL	N	N	Water level is below sounding tube.	NONE	Y	Y	Water quality sample collected in September 2016.
MH-26A	201527	SO4+WL	N	N	Attempted water level measurement in April 2016. Well is dry.	NONE	N	N	Not scheduled for third quarter 2016.
MH-26B	208427	SO4+WL	N	N	Water level is below sounding tube.	NONE	Y	Y	Water quality sample collected in September 2016.
MH-26C	208428	SO4+WL	N	N	Water level is below sounding tube.	NONE	Y	Y	Water quality sample collected in September 2016.
MH-28	903648	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	Y	Y	Water sample collected in August 2016..
MH-29	903649	SO4+WL	N	Y	Insufficient discharge volume to collect water sample. Water level measured in April 2016.	NONE	N	Y	Water level measured in August 2016.
MH-30	903884	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MO-2007-1A	907342	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MO-2007-1B	907210	SO4+WL	N	N	Insufficient discharge volume to collect water sample. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MO-2007-1C	907209	SO4+WL	N	N	Insufficient discharge volume to collect water sample. Water level measured in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
MO-2007-2	906765	SO4+WL	N	N	Water level is below pump and sounding tube.	NONE	N	N	Not scheduled for third quarter 2016.
MO-2007-3B[2]	906816	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July and August 2016.
MO-2007-3C[2]	906817	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July and August 2016.
MO-2007-4A[3]	907213	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July and August 2016.
MO-2007-4B[3]	907212	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July and August 2016.
MO-2007-4C[3]	907211	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July and August 2016.

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TABLE 2
Monitoring Summary - Second and Third Quarters 2016

Well Name	ADWR 55 Well Registry No.	Second Quarter 2016				Third Quarter 2016			
		Requirement	Sample Collected	Water Level Collected	Comment	Requirement	Sample Collected	Water Level Collected	Comment
MO-2007-5B	907456	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	Y	Y	Water quality sample collected in September 2016.
MO-2007-5C	907457	SO4+WL	N	Y	Insufficient discharge volume to collect water sample. Water level measured in June 2016.	NONE	Y	Y	Water quality sample collected in September 2016.
MO-2007-6A[4]	907607	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July 2016.
MO-2007-6B[4]	907606	SO4+WL	N	Y	Insufficient discharge volume to collect water sample. Water level measured in April 2016.	SO4+WL	Y	Y	Water sample collected in August 2016.. Water level collect in July and August 2016.
MO-2009-1[5]	910458	SO4+WL	Y	Y	Water sample collected in April 2016.	SO4+WL	Y	Y	Water sample collected in July 2016.
MW-2016-5A	919635		N	N	Not installed until third quarter 2016.	SO4+WL	Y	Y	Water sample collected in August 2016.
MW-2016-5B	919472		N	N	Not installed until third quarter 2016.	SO4+WL	Y	Y	Water sample collected in August 2016.
MW-2016-06	919676		N	N	Not installed until third quarter 2016.	SO4+WL	Y	Y	Water sample collected in August 2016.
NP-2[2]	605898	SO4+WL	N	N	Water level is below pump and sounding tube.	SO4+WL	Y	Y	Water sample collected in August 2016.
PS-1	220861	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
PS-2	220862	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
PS-3	220863	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.
PS-4	220864	SO4+WL	Y	Y	Water sample collected in May 2016. Water level measured in April 2016.	NONE	Y	N	Water sample collected in August 2016.

TABLE 2
Monitoring Summary - Second and Third Quarters 2016

Well Name	ADWR 55 Well Registry No.	Second Quarter 2016				Third Quarter 2016			
		Requirement	Sample Collected	Water Level Collected	Comment	Requirement	Sample Collected	Water Level Collected	Comment
PZ-7	561870	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
PZ-8	561866	SO4+WL	Y	Y	Water sample collected in April 2016.	NONE	N	N	Not scheduled for third quarter 2016.
S-1	623111	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
ST-6	608530	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
TMM-1	616156	SO4+WL	N	N	Water level is below pump and sounding tube.	NONE	N	N	Not scheduled for third quarter 2016.
1225	634394	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
1350	ND	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
1759	634393	WLO	N	Y	Water level measured in June 2016.	NONE	N	N	Not scheduled for third quarter 2016.
2125	514015	WLO	N	N	Water level deeper than sounder.	NONE	N	N	Not scheduled for third quarter 2016.

Notes:
ADWR = Arizona Department of Water Resources
CC OF GV = Country Club of Green Valley
CWC = Community Water Company of Green Valley
FICO - Farmers Investment Company
GVDWID = Green Valley Domestic Water Improvement District
GVPCWW = Green Valley Pima County Wastewater Reclamation Facility
Sierrita = Freeport-McMoRan Sierrita Inc.
SO4 = Water Sample for Sulfate Analysis, WL = Water Level Measurement, WLO = Water Level Measurement Only
N= No
Y = Yes
[1] *First and third quarter sampling pursuant to Contingency Plan*
[2] *Sentinel Well for CW-9*
[3] *Sentinel Well for CW-6*
[4] *Sentinel Well for GV-01-GVDWID and GV-02-GVDWID*
[5] *Sentinel Well for CW-10*

CLEAR CREEK ASSOCIATES

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CC OF GV	501760	1/15/07	7.31	23.0	767	133
		4/16/07	7.44	22.6	767	133
		7/9/07	7.58	24.5	658	104
		1/10/08	7.27	22.5	689	143
		4/16/08	7.37	25.2	426	69.4
		7/7/08	6.97	23.7	736	119
		10/9/08	7.26	24.8	476	72.4
		2/4/09	8.08	13.8	399	107
		4/21/09	6.92	19.8	526	90.1
		4/22/10	6.99	21.26	929	95
		4/21/11	6.95	17.6	494	82
		6/26/12	7.13	27.7	565	88.69
		5/14/13	7.46	23.3	706	147.80
		4/23/14	6.94	22.3	744	156.00
		5/13/15	6.97	23.2	547	102
CW-3	627483	6/6/07	7.74	25.3	449	57.9
		8/10/07	7.40	25.9	444	59.5
		1/11/08	7.55	25.1	432	55.7
		4/17/08	7.32	25.6	398	54.1
		7/11/08	7.53	25.7	484	56.7
		10/6/08	7.50	25.3	430	56.2
		2/9/09	7.68	24.3	347	54.3
		4/24/09	6.75	25.4	520	56.2
		12/31/09	7.57	23.8	419	56.2
		4/22/10	7.32	23.03	475	57.7
		10/25/10	7.60	25.5	460	57.6
		5/2/11	7.55	26.4	390	56.8
		12/5/11	7.79	22.7	437	55.18
		6/18/12	7.57	28.4	517	61.70
		12/13/12	7.64	24.1	473	63.84
		12/13/12 DUP	7.64	24.1	473	64.04
		6/13/13	7.63	24.4	444	70.8
		11/12/13	7.24	23.8	417	67.2
		11/12/13 DUP	7.24	23.8	417	67.2
		5/6/14	7.81	24.3	393	70.7
		5/6/14 DUP	7.81	24.3	393	70.6
		10/15/14	7.78	24.8	424	67.5
		5/11/15	7.63	25.2	364	71.4
		5/11/15 DUP	7.63	25.2	364	70.0
		10/28/15	7.51	24.9	558	67.1
		6/9/16	7.63	24.9	367	81.1

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CW-6	627485	12/4/06	NM	NM	NM	46.2
		1/3/07	7.73	26.8	418	49.2
		1/3/07	7.73	26.8	418	49.5
		5/14/07	7.58	26.1	507	68.7
		7/10/07	7.60	26.9	475	57.6
		7/10/07	7.60	26.9	475	58
		1/8/08	7.64	27.1	368	48.9
		4/15/08	7.25	26.9	382	51.2
		7/8/08	7.43	27.2	416	47.9
		10/7/08	7.52	26.6	431	51.5
		10/7/08 DUP	7.52	26.6	431	51.5
		2/6/09	7.87	26.6	317	48.2
		4/22/09	7.62	25.3	377	47.9
		4/22/09 DUP	7.62	25.3	377	47.3
		9/17/09	7.18	24.8	478	70
		11/5/09	7.52	25.1	434	59.7
		2/10/10	7.68	24.4	369	46.6
		5/14/10	7.70	26.50	380	52.1
		7/27/10	7.50	27.5	444	55.2
		10/14/10	7.67	26.2	429	52.5
		2/24/11	7.57	23.4	455	70.3
		4/28/11	7.66	25.2	453	58.1
		7/20/11	7.52	25.5	417	81
		12/14/11	7.76	23.7	429	54.50
		12/14/11 DUP	7.76	23.7	429	54.42
		1/24/12	7.49	25.2	303	60.17
		5/9/12	7.70	26.5	489	80.99
		8/29/12	7.44	25.2	537	82.24
		12/12/12	7.47	23.6	541	82.98
		2/6/13	7.32	24.0	457	76.54
		5/15/13	7.63	24.7	513	91.94
		7/17/13	7.47	25.3	500	91.60
		10/23/13	7.50	25.1	365	85.1
		1/14/14	7.49	22.4	395	87.2
		4/16/14	7.65	24.4	434	85.6
		7/22/14	7.21	25.5	614	78.0
		10/13/14	7.71	23.9	464	79.5
		1/13/15	7.82	23.6	433	80.5
		4/14/15	7.31	24.4	430	91.1
		7/27/15	7.76	25.9	572	94.8
		7/27/15 DUP	7.76	25.9	572	94.3
		10/20/15	7.65	24.6	563	85.9
		1/20/16	8.06	22.8	499	69.3
		4/19/16	8.03	26.8	409	92.6
		8/22/16	7.71	25.8	601	91.7
CW-7	502546	1/3/07	7.38	27.4	1799	807
		5/14/07	7.40	27.4	1860	874
		7/10/07	7.32	27.4	1945	860
		1/8/08	7.26	27.3	1860	1080
		4/15/08	7.31	27.6	1758	900
		7/8/08	7.11	27.9	2037	890
		7/8/08 DUP	7.11	27.9	2037	910

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CW-8	543600	1/24/07	7.67	29.7	1232	449
		5/14/07	7.69	29.4	1379	529
		7/10/07	7.63	29.8	1401	500
		1/8/08	7.59	7.6	1160	466
		4/15/08	7.54	29.5	1135	441
		7/8/08	7.40	29.8	1373	504
CW-9	588121	12/4/06	NM	NM	NM	44.5
		1/3/07	7.74	27.0	387	44.9
		5/14/07	7.74	27.5	414	47.8
		7/10/07	7.68	22.6	414	46.7
		1/8/08	7.55	27.3	356	47.3
		4/15/08	7.39	27.4	347	43.7
		7/8/08	7.26	27.9	396	44.1
		10/7/08	7.50	27.7	395	43.5
		2/6/09	7.79	26.8	300	45.1
		4/22/09	7.81	26.3	361	44.3
		7/30/09	7.57	28.3	379	43.8
		11/5/09	6.82	27.4	376	44.7
		2/10/10	7.55	26.0	351	43.4
		5/14/10	7.62	28.1	345	44.2
		7/27/10	7.58	28.4	390	44.1
		10/14/10	7.72	27.5	389	44.2
		2/24/11	7.75	26.3	347	42.7
		4/28/11	7.68	28.8	377	44.4
		7/20/11	7.71	27.8	379	43.9
		12/14/11	7.69	26.5	373	43.80
		1/24/12	7.70	25.1	262	45.60
		5/9/12	7.67	28.3	356	44.39
		8/29/12	7.62	27.9	372	43.94
		12/12/12	7.75	26.6	382	42.14
		2/6/13	7.43	26.7	325	39.87
		5/15/13	7.70	27.0	367	45.78
		7/17/13	7.66	28.1	374	43.70
		10/23/13	7.66	26.9	260	44.4
		1/14/14	7.60	26.1	275	44.3
		1/14/14 DUP	7.60	26.1	275	44.1
		4/16/14	7.84	26.7	304	44.2
		7/22/14	7.47	27.6	446	41.8
		7/22/14 DUP	7.47	27.6	446	42.0
		10/13/14	7.97	27.0	329	42.0
		1/13/15	8.05	26.3	309	44.7
		4/14/15	7.52	27.0	311	47.0
		7/27/15	7.82	27.4	412	49.0
		10/20/15	7.87	26.5	432	45.9
		1/20/16	7.94	25.5	413	46.5
		4/19/16	7.89	25.3	419	48.6
		8/22/16	7.87	27.2	439.4	47.5

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CW-10	207982	12/4/06	NM	NM	NM	37.2
		1/24/07	7.90	30.2	385	48.6
		5/14/07	7.81	31.3	392	52.8
		7/10/07	7.82	31.3	403	51.7
		1/8/08	7.79	28.2	334	45.3
		4/15/08	7.51	30.6	339	50.8
		7/8/08	7.34	31.2	385	50.5
		10/7/08	7.59	30.5	380	48.3
		2/6/09	7.91	29.8	295	51.3
		4/22/09	7.71	29.2	349	47.9
		7/30/09	7.60	31.5	375	49.2
		7/30/09 DUP	7.60	31.5	375	49.4
		11/5/09	7.60	29.7	364	49.9
		2/10/10	7.69	28.4	346	44.9
		5/14/10	7.79	30.7	349	49.1
		7/27/10	7.69	31.4	380	48.9
		10/14/10	7.74	30.2	377	48.5
		2/24/11	7.83	29.3	346	50.2
		2/24/11 DUP	7.83	29.3	346	50.2
		4/28/11	7.54	27.9	372	49.6
		7/20/11	7.72	31.4	383	50.7
		12/14/11	7.81	29.8	370	49.24
		1/24/12	7.77	28.7	265	52.32
		5/9/12	7.85	30.9	354	52.51
		8/29/12	7.74	31.4	369	50.95
		12/12/12	7.77	29.3	392	52.33
		2/6/13	7.52	29.3	332	47.91
		5/15/13	7.85	30.6	365	52.35
		5/15/13 DUP	7.85	30.6	365	52.77
		7/17/13	8.12	31.5	353	54.80
		10/25/13	7.70	29.8	260	51.7
		1/14/14	7.45	29.2	266	50.8
		4/16/14	7.93	30.0	298	50.2
		7/22/14	7.93	31.0	427	47.9
		10/13/14	7.98	30.7	322	48.2
		1/13/15	8.05	29.9	296	48.5
		4/14/15	7.60	29.9	315	56.7
		4/14/15 DUP	7.60	29.9	315	57.5
		7/27/15	7.83	31.2	399	55.1
		10/20/15	7.90	30.2	415	46.6
		1/20/16	8.05	27.4	403	49.9
		4/19/16	7.99	27.0	426	50.8
		8/22/16	7.97	32.1	423.5	54.4

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
ESP-1	623102	12/4/06	NM	NM	NM	262
		1/3/07	7.65	28.0	869	242
		5/14/07	7.70	28.7	592	113
		7/10/07	7.66	28.8	584	94
		1/23/08	7.73	27.6	492	100
		4/18/08	7.61	29.6	474	102
		7/25/08	7.52	28.4	561	104
		10/30/08	7.55	26.9	576	121
		1/29/09	7.44	25.2	491	113
		4/16/09	7.72	25.4	541	130
		11/10/09	7.45	26.8	649	173
		4/28/10	7.49	28.7	639	204
		10/15/10	7.49	27.7	953	291
		5/3/11	7.51	28.1	1060	359
		12/13/11	7.49	26.1	1046	387.52
		6/19/12	7.43	30.4	1221	395.72
ESP-2	623103	12/4/06	NM	NM	NM	29.6
		1/3/07	7.82	28.4	377	31.3
		5/14/07	7.86	27.8	368	28.4
		7/10/07	7.73	28.9	380	28.6
		1/23/08	7.85	25.8	366	30
		4/18/08	7.80	27.3	325	27.6
		7/25/08	7.65	28.6	361	26.8
		10/30/08	7.22	27.5	374	30.1
		10/30/08 DUP	7.22	27.5	374	30
		1/29/09	6.38	25.4	317	27.8
		4/16/09	7.55	24.0	307	28.2
		11/10/09	7.58	27.0	343	28.9
		4/28/10	7.67	27.9	324	28.7
		10/15/10	7.78	27.6	355	27.9
		10/15/10 DUP	7.78	27.6	355	27.8
		5/3/11	7.72	27.8	361	28.1
		5/3/11 DUP	7.72	27.8	361	28.1
		11/22/11	7.84	26.0	350	26.65
		6/19/12	7.65	31.7	387	27.75
		11/21/12	7.55	28.8	333	26.79
		5/20/13	7.70	28.2	350	27.86
		11/5/13	7.72	27.9	245	26.9
		4/28/14	7.91	27.5	291	28.3
		10/1/14	7.96	28.3	327	26.8
		5/12/15	7.89	27.5	274	29.1
		10/21/15	7.84	27.4	321	30.2
		2/9/16	7.84	26.7	427	30.9
		6/7/16	7.84	27.7	282	32.7
		9/7/16	8.03	26.8	402.3	31.9

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
ESP-3	623104	12/4/06	NM	NM	NM	36.2
		1/3/07	7.83	27.8	393	37.5
		5/14/07	7.78	28.8	374	36.6
		5/14/07	7.78	28.8	374	36.6
		7/10/07	7.84	29.2	378	36.6
		1/23/08	7.99	26.1	373	30
		4/18/08	7.82	27.8	322	35.7
		7/25/08	7.70	28.2	358	34
		10/30/08	7.58	27.8	375	36.8
		1/29/09	7.73	23.9	327	35.2
		4/16/09	7.62	26.1	327	35.3
		11/12/09	7.71	27.0	354	39.5
		4/28/10	7.77	25.8	326	35.8
		10/15/10	7.76	27.5	356	35.2
		5/3/11	7.82	27.2	362	35.1
		11/22/11	7.95	27.6	337	34.18
		6/19/12	7.87	30.6	390	34.98
		11/21/12	7.59	28.4	327	35.4
		5/22/13	7.71	26.7	368	35.87
		11/5/13	7.76	27.2	242	35.6
		4/28/14	7.90	27.7	287	35.9
		10/1/14	7.99	28.2	324	33.6
		5/12/15	7.90	27.8	269	36.4
		10/21/15	7.94	28.4	312	36.9
		2/9/16	7.84	27.8	396	38.2
		6/7/16	7.85	27.9	270	38.3
		9/7/16	8.08	27.5	393.1	38.0
		9/7/16 DUP	8.08	27.5	393.1	37.8
ESP-4	623105	3/20/07	7.67	26.7	1187	393
		6/4/07	7.45	28.4	733	385
		7/24/07	7.34	28.4	918	410
		7/24/07	7.34	28.4	918	420
		1/23/08	7.83	24.4	787	520
		4/18/08	7.71	27.2	821	462
		7/25/08	7.52	28.6	1096	420
		10/30/08	7.23	25.9	962	489
		1/29/09	7.52	24.7	950	522
		4/16/09	7.30	25.4	873	521
		10/23/09	7.41	27.8	954	485
		4/28/10	7.37	26.7	936	558
		4/28/10 DUP	7.37	26.7	936	520
		10/15/10	7.41	27.9	1356	539
		5/3/11	7.54	27.1	1465	595
		11/12/12	7.60	26.3	1337	618.5
		5/20/13	7.46	28.5	1173	581.6
		11/5/13	7.47	26.8	843	585
		4/28/14	7.70	25.8	814	352
		10/1/14	7.69	26.5	993	397
		5/12/15	7.69	26.8	766	423
		10/19/15	7.63	27.3	972	420
		10/19/15 DUP	7.63	27.3	972	420
		6/7/16	7.55	26.9	757	385

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
FFS-1	221662	2/4/14	7.63	23.2	3230	1780
		2/4/14 DUP	7.63	23.2	3230	1750
		4/15/14	7.61	25.6	1871	1760
		7/9/14	7.08	26.4	3080	1850
		11/11/14	7.44	25.5	3170	1790
		1/12/15	7.57	24.6	3150	1770
		1/12/15 DUP	7.57	24.6	3150	1760
		7/15/15	7.64	27.2	2980	1770
		11/3/15	7.41	24.6	1560	1750
		11/3/15 DUP	7.41	24.6	1560	1690
		1/5/16	6.73	23.5	1854	1850
		5/9/16	7.43	25.7	1310	1860
		5/9/16 DUP	7.43	25.7	1310	1880
		8/18/16	6.91	25.6	3641	1820
FFS-2	221663	2/4/14	7.61	24.4	3120	1730
		4/15/14	7.46	27.0	1788	1710
		4/15/14 DUP	7.46	27.0	1788	1730
		7/9/14	6.97	27.4	2920	1840
		7/9/14 DUP	6.97	27.4	2920	1820
		11/11/14	7.22	26.4	3100	1800
		1/12/15	7.48	26.3	3050	1760
		4/2/15	7.49	26.5	1570	1800
		4/2/15 DUP	7.49	26.5	1570	1800
		7/15/15	6.45	28.2	2900	1850
		11/3/15	7.35	25.4	1526	1760
		1/5/16	6.88	24.0	1729	1900
		5/16/16	7.36	27.5	1490	1920
		8/18/16	7.23	27.1	3583	1940
FFS-3	221664	2/4/14	7.37	29.5	2630	1450
		4/15/14	7.41	31.1	1559	1440
		7/9/14	6.98	32.0	2580	1560
		11/11/14	7.16	30.3	2670	1570
		1/12/15	7.43	29.6	1840	1500
		4/2/15	7.38	29.3	1433	1490
		7/15/15	6.93	31.6	2550	1560
		11/3/15	7.49	29.1	1511	1480
		1/5/16	7.03	28.6	1604	1590
		5/16/16	7.43	31.4	1461	1580
		8/22/16	7.40	31.9	3027	1580
FFS-4	221665	2/4/14	7.59	29.1	1857	1100
		4/15/14	7.64	31.4	1347	1140
		7/9/14	7.09	32.6	2190	1260
		11/11/14	7.21	30.6	1821	1310
		1/12/15	7.52	30.3	1603	1230
		4/2/15	7.58	30.0	1317	1230
		11/3/15	7.57	30.1	1439	1240
		1/5/16	7.13	30.0	1499	1320
		1/5/16 DUP	7.13	30.0	1499	1330
		5/16/16	7.50	31.9	1360	1380
		8/22/16	7.49	32.9	2666	1380

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
FFS-5	221666	2/4/14	7.36	27.5	2580	1360
		4/15/14	7.56	28.8	1528	1360
		7/9/14	6.93	30.0	2460	1400
		11/11/14	7.13	29.0	2570	1410
		11/11/14 DUP	7.13	29.0	2570	1320
		1/12/15	7.48	28.5	1776	1360
		4/2/15	7.40	28.0	1410	1390
		7/15/15	6.47	30.5	2460	1430
		11/3/15	7.41	28.2	1541	1400
		1/6/16	7.12	25.6	1555	1550
		5/16/16	7.46	29.3	1380	1470
		8/22/16	7.36	30.5	3052	1440
		8/22/16 DUP	7.36	30.5	3052	1520
FFS-6	221667	2/4/14	7.41	27.4	2250	1260
		4/15/14	7.53	29.2	1378	1130
		7/9/14	6.94	29.9	2220	1210
		11/11/14	7.10	28.4	1833	1170
		1/12/15	7.52	29.2	1609	1180
		1/12/15 DUP	7.52	29.2	1609	1190
		4/2/15	7.47	27.2	1323	1210
		7/15/15	7.11	31.5	2190	1220
		7/15/15 DUP	7.11	31.5	2190	1260
		11/4/15	7.16	26.6	1407	1200
		1/6/16	7.18	26.8	1540	1270
		5/16/16	7.53	29.4	1367	1270
		8/22/16	7.36	30.2	2655	1250

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
GV-01-GVDWID	603428	8/6/06	NM	NM	NM	41.2
		1/9/07	8.00	25.8	424	40.9
		4/10/07	7.69	27.2	421	43.2
		7/11/07	7.64	26.8	447	41.5
		1/7/08	7.49	25.7	422	45.7
		4/16/08	7.29	25.8	399	44.1
		7/7/08	7.14	26.1	466	45.2
		10/9/08	7.25	26.6	414	39
		2/4/09	7.50	26.4	338	42.3
		4/22/09	7.05	27.8	380	40.6
		7/29/09	7.17	24.6	606	44.3
		11/4/09	7.45	25.1	415	45.1
		1/27/10	7.54	24.5	411	47.0
		4/1/10	7.49	24.6	420	48.5
		7/28/10	7.20	28.1	348	39.4
		10/14/10	7.29	26.4	411	38.4
		1/20/11	7.04	23.0	408	40.0
		4/28/11	7.30	27.5	421	42.9
		7/20/11	6.88	27.1	429	39.6
		12/7/11	7.68	25.4	416	39.31
		3/14/12	7.61	26.0	406	35.56
		6/7/12	7.21	26.9	420	37.87
		8/29/12	7.38	27.6	409	36.15
		11/15/12	7.27	23.9	450	33.95
		1/29/13	7.34	24.9	373	38.61
		5/16/13	7.64	26.8	398	38.80
		7/11/13	7.79	26.4	367	42.60
		7/11/13 DUP	7.79	26.4	367	42.50
		10/16/13	6.72	26.0	388	33.0
		1/10/14	7.31	24.2	486	34.2
		1/10/14 DUP	7.31	24.2	486	34.2
		4/15/14	7.95	25.2	325	35.5
		7/21/14	7.42	27.3	498	31.9
		1/12/15	7.74	25.1	325	33.7
		4/15/15	7.56	27.2	347	37.6
		7/22/15	7.65	26.5	446	41.8
		10/21/15	7.22	25.8	345	34.5
		10/21/15 DUP	7.22	25.8	345	33.7
		1/19/16	7.98	24.8	435	33.7
		4/20/16	7.45	26.7	368	40.9
		8/24/16	7.94	27.6	515	34.1

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
GV-02-GVDWID	603429	8/6/06	NM	NM	NM	48.6
		10/4/06	NM	NM	NM	95.3
		1/9/07	7.68	23.6	626	103
		4/10/07	7.60	24.1	479	106
		7/11/07	7.50	24.0	649	98
		1/7/08	7.32	23.3	611	98
		4/16/08	7.28	23.7	553	97
		7/7/08	7.12	23.8	642	93.2
		10/9/08	7.18	24.2	599	93.5
		2/4/09	7.36	23.9	489	98.8
		4/22/09	6.67	26.5	485	79.5
		7/29/09	7.02	26.4	427	91.6
		11/4/09	7.25	24.3	547	93.2
		1/27/10	7.47	22.0	547	94.9
		1/27/10 DUP	7.47	22.0	547	94.5
		4/1/10	7.33	22.9	555	99.5
		7/28/10	7.23	24.6	650	83
		10/14/10	7.36	24.5	629	90.7
		1/20/11	7.37	23.1	611	92.7
		4/28/11	7.43	24.5	612	87.3
		7/20/11	7.35	24.0	624	87.2
		12/7/11	7.53	21.8	578	77.88
		3/14/12	7.37	23.8	566	77.35
		6/7/12	7.14	24.0	559	71.78
		8/29/12	7.49	26.3	495	62.98
		8/29/12 DUP	7.49	26.3	495	63.26
		11/15/12	7.55	23.4	543	63.97
		1/29/13	7.35	22.7	457	61.02
		1/29/13 DUP	7.35	22.7	457	61.23
		5/16/13	7.54	24.4	482	63.14
		7/11/13	7.72	24.4	423	64.20
		10/16/13	6.67	23.5	469	53.3
		1/10/14	7.37	22.1	553	55.3
		4/15/14	7.92	23.5	343	45.7
		7/21/14	7.31	24.8	544	42.1
		10/14/14	7.73	23.5	449	48.5
		1/12/15	7.56	22.7	387	46.4
		4/15/15	7.18	23.9	419	58.7
		7/22/15	7.86	24.9	484	49.8
		10/21/15	7.70	24.0	406	52.4
		4/20/16	7.10	24.3	428	52.8

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
GV-SI-GVDWID	208825	10/4/06	NM	NM	NM	5.9
		1/9/07	7.90	26.7	358	5.7
		4/10/07	7.48	26.8	367	6.6
		7/11/07	7.59	27.1	389	6.9
		1/7/08	7.00	26.6	342	8
		4/16/08	7.27	26.4	331	2
		7/7/08	7.18	27.2	382	<0.5
		10/9/08	7.44	26.7	352	5.4
		2/4/09	7.56	27.3	290	6.2
		4/22/09	6.95	28.0	330	5.6
		4/1/10	7.55	26.1	339	6.9
		4/28/11	7.57	27.1	364	6.0
		6/20/12	7.33	28.5	367	8.46
		5/16/13	7.55	26.6	359	6.10
		4/14/14	7.92	25.8	290	5.89
		4/15/15	7.18	27.0	321	8.35
		4/20/16	7.02	26.4	374	8.40
		4/20/16 DUP	7.02	26.4	374	8.31
HAVEN GOLF	515867	2/6/07	7.28	23.0	683	107
		4/16/07	7.26	23.3	655	105
		7/9/07	7.57	32.8	622	80.1
		1/7/08	7.18	21.0	610	99
		4/15/08	7.34	24.8	629	106
		7/7/08	6.93	23.9	727	112
		10/7/08	7.31	27.8	588	92.3
		2/4/09	7.33	23.7	554	120
		2/4/09 DUP	7.33	23.7	554	119
		4/21/09	7.40	23.6	306	109
		4/22/10	6.85	20.8	726	109
		4/21/11	7.10	20.4	588	95
		5/29/12	6.41	279.0	633	88.05
		5/7/13	7.46	23.5	537	105.13
		4/22/14	6.99	24.5	571	97.40
		5/13/15	7.25	23.9	429	112
		6/8/16	7.31	24.2	456	99.5
		6/8/16 DUP	7.31	24.2	456	101
I-10	608525	4/16/07	7.17	28.8	878	533
		7/11/07	7.13	31.3	1013	550
		1/8/08	7.46	24.6	1164	520
		4/14/08	7.29	29.5	836	490
		7/21/08	7.19	30.9	1036	480
		10/28/08	7.18	29.7	1034	526
		1/20/09	7.13	27.6	1040	544
		5/12/09	7.15	28.0	997	495
		4/30/14	7.52	27.0	1072	629

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-1	623129	11/15/06	NM	NM	NM	490
		1/10/07	6.97	25.1	1033	520
		4/9/07	7.24	26	918	480
		7/16/07	6.86	32.7	884	510
		1/16/08	7.38	28.5	959	610
		5/7/08	6.87	29.8	847	610
		7/23/08	6.57	29.5	1228	670
		10/24/08	7.01	30.9	1201	700
		1/27/09	6.61	23.6	1134	660
		4/20/09	7.01	29.0	1092	670
		4/12/10	6.79	29.6	1148	940
		5/11/11	7.02	27.1	2110	1050
		5/21/12	6.71	32.0	1689	900
		4/15/13	7.25	27.4	1676	980
		4/14/14	7.44	28.2	1120	896
		4/1/15	7.55	28.7	1302	1140
		5/17/16	7.46	28.2	1330	1430
		8/23/16	7.54	29.2	2735	1290
IW-2	623130	11/15/06	NM	NM	NM	100
		1/10/07	6.91	23.8	528	110
		4/3/07	7.08	25.3	492	90
		7/16/07	7.18	32.2	506	90
		1/16/08	7.76	28.1	470	70
IW-2A	216464	4/22/08	6.99	30.5	382	80
		7/23/08	6.88	30.3	474	60
		10/24/08	7.43	30.3	473	60
		1/27/09	7.02	25	420	53
		4/20/09	6.85	28.0	405	54
		4/12/10	7.04	NM	28.9	77
		5/11/11	7.12	26.7	541	87
		5/11/11 DUP	7.12	26.7	541	88
		5/21/12	6.89	31.1	638	121
		4/15/13	7.01	27.0	550	123
		4/14/14	7.64	27.7	430	116
		4/1/15	7.94	27.8	536	150
		5/17/16	7.67	28.1	574	257
		8/23/16	7.92	29.6	994	270
IW-3A	201732	11/15/06	NM	NM	NM	1590
		4/3/07	7.29	25.1	1374	1540
		7/16/07	6.85	29.8	1184	1500
		1/16/08	7.20	27.4	1280	1490
		4/22/08	7.03	29.3	1224	1420
		7/23/08	6.62	29.3	1789	1460
		10/27/08	6.97	28.7	1679	1450
		1/27/09	6.82	23.1	1520	1550
		1/27/09 DUP	6.82	23.1	1520	1310
		4/20/09	6.69	27.2	1448	1400
		4/12/10	6.55	27.5	1380	1500
		5/11/11	6.75	25.6	2260	1650
		6/20/12	6.51	275.0	3170	1700
		5/14/13	7.01	27.7	2660	1600
		4/14/14	7.34	25.9	1757	1720
		4/1/15	7.55	26.2	1619	1820

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-4	623132	1/18/07	6.81	22.4	2210	1610
		1/18/07	6.81	22.4	2210	1590
		4/11/07	6.6	28.2	1252	1600
		7/18/07	6.61	29.1	1462	1450
		1/16/08	7.00	25.2	1326	1590
		4/22/08	6.59	28.6	1264	1540
		7/23/08	6.70	31.0	1899	1640
		10/24/08	6.92	27.9	1924	1630
		1/27/09	6.58	23.9	1718	1460
		4/20/09	6.79	25.6	1604	1400
		4/12/10	6.49	26.8	1483	1600
		5/11/11	6.57	25.8	3070	1700
		5/21/12	6.57	27.5	2650	1500
		4/15/13	6.93	24.2	2750	1800
		4/14/14	7.01	24.3	1903	1690
		5/17/16	7.40	25.1	1744	1750
		8/22/16	7.29	27.7	3593	1830
IW-5	623133	1/16/07	7.34	23.1	1511	1710
		7/18/07	6.82	27.0	1716	1610
		1/16/08	7.11	24.1	1380	1690
		4/21/08	6.64	27.5	1326	1550
		7/23/08	6.76	30.1	1370	1730
		10/27/08	6.57	26.8	1886	1720
		1/27/09	6.44	19.5	1560	1630
		4/20/09	6.73	24.7	1635	1600
		4/12/10	6.59	25.7	1476	1800
		4/12/10 DUP	6.59	25.7	1476	1700
IW-5A	219131	4/20/11	6.78	22.2	3210	1740
		5/22/12	6.68	26.6	2880	1600
		4/15/13	6.84	24.2	2910	1760
		4/15/13 DUP	6.84	24.2	2910	1740
		4/14/14	6.96	24.5	3120	1750
IW-6A	545565	11/15/06	NM	NM	NM	1760
		1/16/07	7.25	22.5	1562	1800
		4/9/07	6.69	26	1627	1830
		7/25/07	6.67	24.5	1609	1930
		1/16/08	7.21	23.1	1489	1910
		1/16/08 DUP	7.21	23.1	1489	1800
		4/21/08	7.30	25.4	1309	1920
		7/17/08	6.84	27.1	1510	1850
		10/24/08	6.61	25.5	1999	1930
		1/26/09	6.58	21.9	1959	1600
		4/20/09	6.78	25.6	1710	1700
		4/12/10	6.99	34.2	1437	1800
		5/11/11	6.82	23.4	3390	1900
		5/22/12	6.61	27.3	2950	1800
		4/15/13	6.86	23.9	3030	1840
		4/14/14	6.99	23.4	3270	1890

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-8	508236	4/3/07	7.11	24.1	1523	1760
		7/18/07	6.82	29.5	1328	1870
		1/16/08	7.30	24.3	1386	1900
		4/22/08	6.86	27.5	1301	1700
		7/23/08	6.78	27.5	1440	1870
		10/24/08	6.85	27.4	1976	1890
		1/27/09	6.38	20.4	1816	1630
		4/20/09	6.75	25.4	1620	1700
		4/12/10	6.52	25.6	1547	1900
		5/11/11	6.67	23.9	1965	1900
		5/21/12	6.62	28.7	2670	1700
		5/14/13	6.96	26.9	2800	1700
		4/1/15	7.47	24.8	1687	1800
		5/17/16	7.53	24.3	1719	1940
		8/23/16	7.61	26.0	3666	1880
IW-9	508238	11/15/06	NM	NM	NM	1760
		1/18/07	7.40	22.6	1690	1670
		4/11/07	6.73	25.1	1424	1750
		7/18/07	6.78	29.4	1547	1810
		1/16/08	7.01	26.1	1359	1700
		4/22/08	6.86	28.5	1328	1670
		7/23/08	6.88	28.8	1420	1730
		10/24/08	6.88	28.6	1981	1720
		10/24/08 DUP	6.88	28.6	1981	1720
		1/27/09	6.69	21.7	1774	1500
		4/20/09	6.79	26.9	1585	1600
		4/12/10	6.95	29.2	1579	1800
		4/12/10 DUP	6.95	29.2	1579	1800
		5/26/11	6.95	26.2	3850	1810
		5/21/12	6.58	29.2	2680	1700
		4/15/13	6.90	25.6	2880	1730
		4/14/14	7.20	25.3	1882	1780
IW-10	508237	11/15/06	NM	NM	NM	1650
		1/16/07	7.38	23.7	1303	1670
		4/3/07	7.11	26.7	1520	1750
		7/18/07	6.78	28.3	1734	1770
		1/16/08	7.91	24.0	537	1800
		4/21/08	6.68	27.2	1338	1470
		7/23/08	6.90	28.4	1460	1740
		10/24/08	6.77	27.0	1969	1730
		1/27/09	6.64	20.7	1560	1490
		4/20/09	6.80	24.8	1607	1600
		4/12/10	6.61	26.5	1431	1700
		5/11/11	6.67	24.3	3310	1800
		5/22/12	6.78	26.9	2890	1700
		4/15/13	6.85	23.6	2980	1740
		4/14/14	6.94	23.4	3320	1820
		4/1/15	7.33	23.1	1894	1870
		8/22/16	7.18	24.8	3769	2010
		8/22/16 DUP	7.18	24.8	3769	1970

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-11	508235	11/21/06	NM	NM	NM	1600
		1/16/07	7.10	21.7	1516	1700
		4/9/07	6.76	26.2	1342	1760
		7/18/07	6.84	26.8	1788	1770
		1/16/08	7.15	22.3	1370	1800
		4/21/08	6.53	26	1303	1770
		4/21/08 DUP	6.53	26	1303	1850
		7/29/08	6.58	24.4	1830	1720
		10/24/08	6.89	26.3	1958	2260
		1/27/09	6.56	19.1	1540	1600
		4/20/09	6.64	25.1	1632	1600
		4/12/10	6.63	24.6	1492	1700
		5/11/11	6.51	25.0	3250	1700
		5/22/12	6.76	25.5	2810	1600
		4/15/13	6.82	23.7	2890	1730
		4/14/14	7.00	22.3	3210	1710
		4/1/15	7.31	23.2	1915	1790
		8/22/16	7.32	25.0	3660	1820
IW-12	545555	1/16/07	6.93	22.3	1444	1620
		4/17/07	6.56	25.9	1345	1630
		7/25/07	6.55	25.2	1483	1700
		1/16/08	6.87	23.4	1428	1700
		1/16/08 DUP	6.87	23.4	1428	1700
		4/11/08	6.51	27.4	1426	1580
		7/17/08	6.76	28.4	1917	1630
		10/24/08	6.81	26.5	1879	1520
		1/26/09	6.70	23.7	1792	1440
		4/20/09	6.63	26.5	1576	1500
		4/12/10	6.70	22.8	1579	1500
		5/11/11	6.74	25.8	3120	1700
		5/22/12	6.66	27.7	2640	1600
		5/14/13	6.92	27.2	2540	1500
		4/14/14	7.02	24.4	2980	1430
		4/1/15	7.39	24.2	1851	1600
		5/17/16	7.43	24.7	1920	1930
		8/22/16	7.51	27.0	3331	1640
IW-13	545556	4/17/07	6.81	25.8	1430	1690
		7/25/07	6.61	25.1	1560	1940
		7/25/07	6.61	25.1	1560	1780
		1/16/08	6.64	24.0	1599	1800
		4/11/08	6.61	26.8	1502	1800
		7/17/08	6.6	30	1898	1850
		10/24/08	6.70	26.1	1999	1930
		1/26/09	6.49	23.6	1951	1600
		4/20/09	6.73	27.2	1697	1700
		4/12/10	6.64	24.1	1669	1900
		5/11/11	6.70	25.3	3360	1900
		6/20/12	6.67	25.9	3450	1900
		4/15/13	6.73	24.9	3030	1760
		4/14/14	6.99	23.6	3440	1900
		4/14/14 DUP	6.99	23.6	3440	1730
		4/1/15	7.25	24.3	2910	1860
		4/1/15 DUP	7.25	24.3	2910	1930

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-14	545557	11/15/06	NM	NM	NM	1820
		1/16/07	6.72	22.4	1484	1790
		1/16/07	6.72	22.4	1484	1810
		4/16/07	6.63	24.4	1383	1790
		7/25/07	6.51	24.7	1462	1910
		1/16/08	7.03	23.2	1646	1800
		4/11/08	6.49	26.8	1460	1810
		7/16/08	6.59	29.9	1901	1870
		10/24/08	6.51	26.4	1929	1840
		1/26/09	6.52	23	1869	1600
		4/20/09	6.66	27.1	1612	1700
		4/21/10	6.89	24.8	1428	1900
		5/11/11	7.54	25.7	3460	1900
		5/22/12	6.48	31.8	2620	1800
		4/15/13	6.91	24.4	3020	1870
		4/14/14	7.01	23.1	3490	1730
		4/1/15	7.24	23.7	1947	1930
		5/17/16	7.21	24.4	1922	2040
IW-15	545558	11/15/06	NM	NM	NM	1710
		1/16/07	7.04	23.9	1420	1730
		4/16/07	6.82	27.4	1314	1740
		7/25/07	6.32	26.6	1388	1760
		1/16/08	7.07	22.3	1561	1740
		4/11/08	6.42	28.3	1395	1670
		7/15/08	6.75	31.3	1790	1730
		10/24/08	6.6	26.0	1892	1850
		1/27/09	6.86	21.8	1935	1630
		4/20/09	7.71	28.5	1302	1600
		4/20/09 DUP	7.71	28.5	1302	1700
		4/12/10	6.69	25.0	1669	1700
		5/11/11	7.54	26.2	3270	1800
		5/11/11 DUP	7.54	26.2	3270	1800
		5/22/12	6.74	29.4	2850	1800
		5/14/13	7.03	27.1	2770	1700
		4/14/14	6.98	23.9	3240	1800
		4/1/15	6.89	24.7	1927	1860
		5/17/16	7.09	25.3	1830	2010
		8/22/16	7.47	27.7	3735	1950
IW-16	545559	11/15/06	NM	NM	NM	1730
		1/16/07	7.18	23.8	1415	1730
		4/17/07	6.86	26.8	1320	1770
		4/17/07	6.86	26.8	1320	1790
		7/25/07	6.63	26.5	1368	1800
		1/16/08	7.07	23.3	1561	1740
		4/11/08	6.64	26.4	1404	1770
		7/15/08	6.52	31.2	1778	1840
		10/24/08	6.35	25.7	1879	1850
		1/26/09	6.44	23.9	1773	1620
		4/20/09	6.69	27.1	1347	1700
		4/12/10	6.79	25.6	1652	1800

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-17	545560	11/15/06	NM	NM	NM	1570
		1/16/07	6.79	21.8	1402	1600
		4/16/07	6.90	26.3	1303	1670
		7/25/07	6.61	27.2	1348	1730
		1/16/08	6.74	16.5	1485	1720
		4/11/08	6.49	28.5	1398	1730
		7/15/08	6.63	31.7	1853	1770
		10/24/08	6.70	27.0	1864	1720
		1/26/09	6.41	24.1	1828	1480
		4/20/09	6.77	30.1	1332	1600
		4/12/10	6.63	26.5	1604	1700
IW-18	545561	11/21/06	NM	NM	NM	1610
		1/18/07	7.26	15.4	1460	1660
		4/16/07	6.80	24.9	1161	1610
		7/25/07	6.45	28.1	1293	1760
		1/14/08	6.39	21.9	1899	1700
		4/11/08	6.61	27.5	1388	1540
		7/15/08	6.71	30.2	1847	1710
		10/24/08	6.34	27.1	1883	1680
		1/26/09	6.39	24.7	1779	1460
		4/20/09	6.77	29.9	1337	1700
		4/29/10	6.63	23.7	1455	1600
IW-19	545562	11/21/06	NM	NM	NM	1570
		1/11/07	7.19	25.1	1802	1630
		4/16/07	6.69	26.7	1296	1630
		7/25/07	6.91	26.3	1310	1650
		1/10/08	6.39	22.4	1881	1800
		1/10/08 DUP	6.39	22.4	1881	1800
		4/11/08	6.62	26.3	1409	1680
		7/15/08	6.78	29.4	1807	1670
		10/24/08	6.6	28.7	1685	1710
		1/26/09	6.47	24.3	1852	1370
		4/20/09	6.82	27.9	1366	1600
		4/12/10	6.62	26.4	1570	1600
		5/11/11	6.68	26.6	3200	1700
		5/22/12	6.56	30.7	2730	1300
		5/14/13	6.85	28.7	2690	1600
		4/14/14	7.01	24.5	3170	1780
		4/1/15	7.43	23.6	1945	1910
		5/17/16	7.29	25.6	1866	1980

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-20	545563	11/21/06	NM	NM	NM	1550
		1/11/07	7.23	26.4	2360	1630
		4/9/07	7.07	27.2	1260	1500
		7/24/07	6.69	30.8	1822	1580
		1/9/08	6.72	26.4	1710	1700
		4/11/08	6.74	27.3	1400	1560
		7/15/08	6.6	29.4	1650	1640
		10/24/08	6.81	28.6	1779	1600
		1/26/09	6.48	24.1	1837	1450
		4/20/09	6.76	30.0	1375	1500
		4/29/10	6.62	24.2	1417	1600
		5/11/11	7.07	26.3	3080	1600
		6/20/12	6.67	28.2	3080	1600
		6/17/13	7.21	31.1	1785	1900
		6/17/13 DUP	7.21	31.1	1785	1800
		4/14/14	7.04	26.2	3220	1690
		4/1/15	7.07	26.2	1977	1700
IW-21	545564	11/21/06	NM	NM	NM	1580
		1/11/07	7.15	27.8	1848	1620
		4/17/07	6.85	29.4	1424	1650
		7/24/07	6.68	30.6	1828	1630
		1/9/08	6.33	25.4	1975	1800
		4/11/08	6.85	24.6	1375	1610
		4/11/08 DUP	6.85	24.6	1375	1610
		7/29/08	6.49	29	1780	1670
		10/24/08	6.91	29.7	1833	1640
		1/26/09	6.59	25.7	1410	1390
		4/20/09	6.83	30.7	1422	1600
		4/12/10	6.72	28.1	1621	1700
		5/11/11	6.77	29.6	3140	1700
		6/20/12	6.65	29.2	3130	1700
		4/15/13	6.94	28.8	2840	1690
		4/14/14	7.18	28.2	3170	1720
		5/17/16	7.11	28.2	1887	1990
		5/17/16 DUP	7.11	28.2	1887	1990
		8/22/16	7.26	29.6	3520	1790

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-22	200554	11/21/06	NM	NM	NM	1710
		1/23/07	6.90	22.1	1253	1660
		4/9/07	7.09	26	1325	1740
		7/18/07	6.99	28.1	1683	1790
		1/16/08	7.19	23.1	1378	1700
		4/21/08	6.53	28.7	1362	1760
		4/21/08 DUP	6.53	28.7	1362	1410
		7/23/08	6.86	28.9	1370	1760
		10/24/08	6.89	26.4	1929	1720
		1/27/09	6.58	19.9	1570	1610
		4/20/09	6.77	25.5	1635	1700
		4/12/10	6.59	25.4	1472	1800
		5/11/11	6.75	24.5	3290	1800
		5/22/12	6.72	26.6	2870	1600
		4/15/13	7.19	22.5	2990	1810
		4/14/14	7.05	22.5	3240	1620
		4/1/15	7.36	23.7	1874	1770
		5/17/16	7.41	24.3	1915	1930
		9/6/16	7.02	24.5	3595	1850
IW-23	200555	11/21/06	NM	NM	NM	1540
		1/23/07	6.6	22.8	1249	1640
		4/11/07	6.88	26.7	1528	1670
		7/25/07	6.49	24.7	1541	1670
		1/16/08	7.17	24.3	1303	1680
		4/21/08	6.71	28.6	1314	1710
		7/23/08	6.84	27.5	1420	1730
		10/24/08	6.81	27.9	1966	1780
		1/27/09	6.52	19.9	1963	1650
		4/20/09	6.82	25.4	1607	1700
		4/12/10	6.81	26.6	1491	1700
		5/11/11	6.83	24.6	3280	1800
		5/22/12	6.72	28.9	2700	1600
		4/15/13	6.79	24.0	2930	1800
		4/14/14	6.95	23.9	3180	1800
		4/1/15	7.35	23.7	1838	1890
IW-24	200556	7/18/07	6.78	29.0	1739	1790
		1/16/08	7.06	24.2	1387	1700
		4/22/08	6.68	28.7	1141	1650
		4/22/08 DUP	6.68	28.7	1141	1750
		7/23/08	6.68	30.7	1420	1730
		10/24/08	6.71	28.1	1058	1640
		1/27/09	6.43	21.3	1510	1560
		4/20/09	6.79	25.6	1604	1600
		4/20/09 DUP	6.79	25.6	1604	1500
		4/12/10	6.70	27.1	1450	1600
		5/11/11	6.76	24.6	3260	1700
		5/22/12	6.47	27.3	2800	1700
		4/15/13	6.83	24.4	2800	1900
		4/14/14	7.06	25.0	1958	1710
		4/14/14 DUP	7.06	25.0	1958	1760
		4/1/15	7.50	24.1	1732	1760
		5/17/16	7.44	24.1	1814	1920
		8/22/16	7.40	25.9	3672	1770

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-25	219596	4/15/13	7.01	27.6	932	390
		4/14/14	7.56	27.9	688	348
		5/17/16	7.39	28.1	1740	1220
		5/17/16 DUP	7.39	28.1	1740	1180
IW-26	219143	4/15/13	7.00	25.6	2620	1700
		4/1/15	7.53	27.3	1683	1630
		5/17/16	7.57	26.2	1720	1750
		8/22/16	7.46	27.9	3308	1670
IW-27	219136	4/14/14	7.16	22.4	3210	1760
		4/1/15	7.41	25.6	1683	1670
		4/1/15 DUP	7.41	25.6	1683	1710
		5/17/16	7.46	25.3	1740	1930
		8/22/16	7.33	26.2	3593	1820
IW-28	219137	4/15/13	7.03	24.2	2930	1720
		4/14/14	7.08	25.0	3230	1740
		4/1/15	7.48	25.8	1807	1730
		5/17/16	7.33	25.3	1829	1840
		8/22/16	7.43	26.9	3582	1780
IW-29	222865	5/12/14	NM	NM	NM	1680
		4/1/15	7.28	26.5	1758	1750
M-8	087390	12/6/06	7.50	25.5	380	NA
		12/6/06	7.60	NM	380	NA
		4/16/07	7.87	23.1	424	<0.5
		7/11/07	7.67	28.2	415	16.5
		1/9/08	7.68	23.7	458	50
		4/15/08	6.85	28	362	28.7
		7/25/08	7.62	27	398	24.5
		10/28/08	7.67	27.8	406	26.3
		10/28/08 DUP	7.67	27.8	406	26.2
		1/20/09	7.49	25.2	397	36.8
		5/12/09	7.62	26.8	387	29.6
		11/5/09	7.61	26.6	382	31.4
		5/28/10	7.63	26.9	448	45.1
		10/21/10	7.64	25.5	435	46.9
		6/15/11	7.57	26.1	501	59.3
		11/17/11	7.88	23.6	522	84.577
		6/29/12	7.73	27.9	417	24
		10/29/12	7.62	25.7	419	16.45
		4/17/13	7.74	27.1	567	140.61
		5/21/13	7.78	27.0	374	28.85
		10/29/13	7.61	25.6	258	18.3
		4/22/14	7.85	23.4	351	20.2
		11/4/14	7.85	25.4	445	19.6
		4/6/15	7.96	27.7	293	20.6
		8/25/16	7.81	26.4	439	36.4

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
M-9	501652	1/17/07	7.50[2]	26.0	460	NA
		7/11/07	7.72	27.0	334	NA
		1/8/08	6.51	25.7	533	80
		1/8/08	7.67	26.7	480.7	65
		4/14/08	7.74	27.8	422	67.2
		7/21/08	7.52	29.5	485	68.7
		10/28/08	7.66	30.3	503	74.8
		1/20/09	7.64	24.1	470	81.6
		5/13/09	7.54	27.3	487	80.2
		7/14/09	7.60	27.0	420	81.7
		6/16/10	7.63	26.6	511	77
		6/2/11	7.59	27.1	525	75
		6/27/12	7.26	27.4	581	81
		5/1/13	7.81	26.5	461	66.05
		4/22/14	7.82	26.2	550	106.00
		1/20/15	7.92	25.8	490	74.00
		4/6/15	7.83	25.3	346	57.8
		2/9/16	7.73	25.7	374	39.8
		2/9/16 DUP	7.73	25.7	374	39.1
		4/25/16	7.80	25.2	374	49.0
		8/24/16	8.64	25.3	253	10.6
M-10	501653	7/19/06	NM	NM	NM	66
		1/16/07	7.90	29.0	440	NA
		4/16/07	7.97	28.2	475	72.6
		7/12/07	8.05	27.0	322	NA
		1/8/08	7.91	24.8	537	73
		4/15/08	7.99	27.6	428	81
		7/21/08	7.69	31	489	89.8
		10/28/08	8.08	28.1	521	97.1
		1/20/09	7.91	29	467	95
		5/12/09	7.77	26.9	487	97
		7/14/09	7.20	25.0	420	96
		11/5/09	7.13	30.5	479	110
		11/5/09 DUP	7.13	30.5	479	107
		5/28/10	7.83	30.1	497	121
		10/21/10	7.76	27.1	585	139
		5/10/11	7.86	28.9	641	149
		11/16/11	8.04	27.6	612	162
		6/25/12	7.61	29.8	162	162
		10/29/12	7.88	27.0	645	158
		4/17/13	7.90	28.9	618	170.32
		10/29/13	7.94	27.3	431	164
		4/22/14	8.16	25.4	585	165
		11/4/14	8.34	25.2	472	114
		1/19/15	8.48	25.9	611	151
		1/19/15 DUP	8.48	25.9	611	157
		4/6/15	8.14	28.6	560	166

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
M-20	906595	3/22/07	7.10	27.0	3500	NA
		7/12/07	7.44	27.0	1970	NA
		1/9/08	7.15	25.6	1853	1750
		1/9/08	7.29	26.3	2878	1500
		4/14/08	7.18	27	1277	1550
		7/25/08	6.99	27.6	1857	1550
		10/28/08	7.03	28.2	1688	1660
		1/20/09	6.95	27.1	1506	1760
		5/12/09	6.88	28.0	1501	1580
		5/28/10	7.22	28.2	3050	1620
		5/9/11	7.29	27.8	2790	1710
		6/26/12	7.15	28.3	3050	1722.9
		4/23/13	7.50	26.6	2720	1801.6
		4/22/14	9.25	26.2	2590	1460
		4/22/14 DUP	9.25	26.2	2590	1440
		4/27/15	7.58	27.9	2770	1720
		4/26/16	7.67	28.0	2600	1750
MC-1	221660	2/4/14	7.57	25.4	3080	1620
		4/15/14	7.55	27.2	1797	1680
		7/9/14	6.97	28.2	2850	1750
		11/11/14	7.10	26.9	2970	1750
		1/12/15	7.46	26.1	2960	1660
		4/2/15	7.45	26.9	1513	1710
		7/15/15	6.51	29.1	2890	1810
		11/3/15	7.53	25.8	1587	1670
		1/5/16	7.09	25.1	1724	1730
		5/16/16	7.40	27.7	1584	1680
		8/22/16	7.38	27.8	3357	1700
MC-2	221761	2/4/14	7.61	25.4	2630	1330
		4/15/14	7.45	27.3	1546	1320
		7/9/14	6.93	28.6	2410	1360
		11/11/14	7.13	27.5	1922	1260
		1/12/15	7.59	26.8	1697	1200
		4/2/15	7.49	26.5	1368	1200
		7/15/15	7.59	29.4	2220	1290
		11/3/15	7.53	26.5	1497	1110
		11/3/15 DUP	7.53	26.5	1497	1120
		1/5/16	7.17	25.7	1515	1190
		5/16/16	7.56	28.1	1329	1150
		8/22/16	7.51	28.8	2502	1120
MC-3	221661	2/4/14	7.46	24.6	2690	1380
		4/15/14	7.68	27.9	1555	1350
		7/9/14	6.91	28.7	2480	1510
		11/11/14	7.14	27.2	2610	1440
		1/12/15	7.61	26.8	1794	1350
		4/2/15	7.52	26.7	1338	1390
		7/15/15	7.44	29.8	2400	1410
		11/4/15	7.48	25.0	1507	1370
		1/6/16	7.25	24.5	1590	1420
		5/16/16	7.57	27.9	1353	1410
		8/22/16	7.45	29.1	2831	1410

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MC-4	220842	2/4/14	7.11	25.9	2440	1210
		4/15/14	7.64	29.2	1437	1160
		7/9/14	6.76	29.2	2320	1300
		7/9/14 DUP	6.76	29.2	2320	1310
		11/11/14	7.06	27.9	1926	1280
		1/12/15	7.58	27.9	1665	1220
		4/2/15	7.45	27.6	1310	1230
		7/15/15	7.49	31.0	2280	1220
		11/4/15	7.48	26.3	1490	1240
		1/6/16	7.23	26.5	1547	1350
		5/16/16	7.49	28.4	1330	1340
		8/22/16	7.39	29.9	2756	1320
MH-10	803636	11/8/06	NM	NM	NM	1330
		1/9/07	6.70	28.5	1717	1310
		4/3/07	6.86	30.2	1267	1360
		7/16/07	6.87	31.4	1138	1410
		1/3/08	6.41	24.8	1626	1430
		4/28/08	6.60	31	973	1460
		7/31/08	7.07	32.5	1827	1550
		11/4/08	7.02	26.0	1856	1450
		1/2/09	6.54	26.1	1798	1400
		4/14/09	6.62	28.1	1260	1260
		4/26/10	7.05	29.9	1365	1500
		4/26/10 DUP	7.05	29.9	1365	1400
		5/18/11	7.03	27.4	2900	1600
		6/5/12	6.88	29.3	2910	1500
		6/10/13	7.17	30.2	1791	1720
		4/23/14	7.05	26.8	2910	1540
		4/14/15	7.10	28.5	1389	1560
		6/8/16	7.04	28.4	1439	1560
MH-11	803637	1/11/07	7.33	25.0	1778	1590
		4/10/07	7.02	28.3	1327	1580
		7/17/07	6.87	28.8	1848	1650
		1/4/08	6.44	26.3	1690	1560
		4/29/08	6.48	30.2	959	1700
		7/29/08	6.97	32.2	1767	1550
		11/7/08	7.01	27.1	1350	1560
		1/16/09	7.04	27.5	1454	1400
		5/13/09	6.62	31.0	1569	1500
		4/27/10	6.61	29.3	1382	1400
		5/24/11	6.77	27.4	2650	1500
		5/30/12	6.83	30.3	2730	1440
		4/23/13	7.34	27.7	2410	1480
		4/29/14	7.12	27.6	1946	1590
		4/16/15	7.14	27.9	2060	1550
		5/18/16	7.17	27.1	2140	1810

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-13A	904071	11/10/06	NM	NM	NM	1680
		1/24/07	7.87	25.0	1458	1700
		4/18/07	7.1	27.4	1609	1720
		7/17/07	6.98	28.1	1553	1760
		1/4/08	6.97	26.1	1810	1710
		4/29/08	7.09	28.8	1174	1800
		7/16/08	7.03	27.4	1824	1720
		7/16/08 DUP	7.03	27.4	1824	1710
		10/20/08	7.07	27.7	1984	1800
		1/23/09	6.84	25.1	1510	1700
		4/15/09	7.12	25.6	1643	1650
		4/21/10	7.24	25.3	1384	1700
		5/23/11	7.12	26.9	3450	1840
		6/11/12	7.10	27.6	3340	1680
		4/3/13	7.20	25.9	2870	1760
		4/10/14	10.34	22.9	1820	1190
		4/22/15	9.19	24.6	1322	1100
		4/6/16	9.25	25.4	2567	1050
MH-13B	904072	11/10/06	NM	NM	NM	1080
		1/24/07	8.07	25.9	1262	1100
		4/18/07	7.36	30	1396	1120
		7/17/07	7.28	28.5	1786	1150
		1/4/08	7.21	27.2	1576	1110
		4/29/08	7.26	29.6	985	1110
		7/16/08	7.42	31.5	1589	1110
		10/20/08	7.34	29.6	1627	1080
		1/23/09	7.13	26.6	1639	1130
		4/15/09	7.50	25.4	1370	1030
		4/15/09 DUP	7.50	25.4	1370	1100
		4/21/10	7.57	28.8	1100	1030
		5/23/11	7.28	28.3	2400	1090
		5/23/11 DUP	7.28	28.3	2400	1110
		6/11/12	7.24	29.1	2310	1020
		4/3/13	7.42	27.5	1818	1050
		4/10/14	9.56	25.7	1510	849
		4/22/15	9.54	26.9	1246	903
		4/6/16	9.37	27.0	1924	1220

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-13C	904073	11/10/06	NM	NM	NM	90
		1/24/07	9.12	22.9	450	100
		4/18/07	9.2	29.1	379	20
		7/17/07	8.78	33.8	380	20
		1/4/08	8.99	26.6	396	20
		5/7/08	8.71	30.4	363	40
		7/16/08	8.69	32.01	371	70
		10/20/08	8.90	32.8	380	60
		1/27/09	7.99	27.3	323	30
		4/15/09	8.79	25.9	421	42
		4/21/10	8.84	28.0	385	27
		5/23/11	8.65	30.4	364	43
		6/11/12	8.61	30.7	411	50
		4/3/13	8.77	28.3	340	45
		4/10/14	9.69	25.6	275	1.2
		4/22/15	9.14	26.8	211	0.78
		4/6/16	9.23	27.0	241	<0.5
MH-14	528098	4/21/15	7.35	26.6	1459	1650
MH-16W	528099	11/4/14	7.76	23.3	3220	1880
		11/4/14 DUP	7.76	23.3	3220	1800
		4/21/15	7.36	23.6	1372	1830
MH-25A	201528	11/13/06	NM	NM	NM	190
		1/10/07	8.09	26.0	344	10
		4/4/07	7.82	26.6	322	<10
		7/20/07	7.63	28.6	431	<10
		1/2/08	7.91	25.3	401	10
		4/25/08	7.54	27	311	30
		7/2/08	7.66	27.6	342	<10
		10/17/08	7.84	27.5	333	50
		1/5/09	7.75	24.5	336	12
		4/15/09	7.81	25.1	350	4
		4/13/10	7.76	25.3	334	9
		4/27/11	7.76	25.9	358	16
		5/1/12	7.83	27.8	376	13
		4/3/13	7.69	26.8	335	9
		4/15/14	7.92	25.0	265	17
		4/7/15	7.82	26.1	268	12.3
		4/11/16	7.87	26.0	350	9.67
		4/11/16 DUP	7.87	26.0	350	9.93

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-25B	208429	11/13/06	NM	NM	NM	1660
		1/10/07	7.54	26.1	1440	1680
		4/4/07	7.32	28.7	1333	1550
		7/20/07	7.16	28.4	1649	1760
		1/2/08	7.10	26.5	1900	1730
		4/25/08	7.05	28.6	1138	1750
		7/2/08	7.04	28.6	1851	1650
		10/17/08	7.74	28.8	1768	1660
		1/5/09	7.22	24.9	1581	1590
		4/15/09	7.25	25.2	1483	1600
		4/13/10	7.59	28.1	1120	900
		4/27/11	7.35	27.0	3050	1810
		6/15/11	7.31	29.3	3690	1700
		5/1/12	7.31	29.3	1864	1690
		4/3/13	7.46	27.9	2620	1700
		4/15/14	7.82	26.6	1714	1740
		4/7/15	8.00	27.4	1430	1580
		9/21/16	8.18	27.5	2688	1190
MH-25C	208426	11/13/06	NM	NM	NM	1290
		1/10/07	7.46	26.3	1361	1250
		4/13/07	7.24	26	1357	1260
		7/20/07	7.13	30.2	1599	1240
		1/2/08	7.25	28.2	1608	1250
		4/25/08	7.20	30	1031	1240
		7/2/08	7.13	28.4	1736	1330
		10/17/08	7.17	30.4	1624	1270
		1/5/09	7.15	27	1466	1250
		4/15/09	7.28	26.6	1368	1270
		4/13/10	7.24	27.6	1292	1600
		4/27/11	8.41	25.1	1874	1290
		5/1/12	7.39	29.5	1667	1290
		4/3/13	7.44	28.0	1838	1270
		4/3/13 DUP	7.44	28.0	1838	1290
		4/15/14	7.87	27.6	1411	1090
		9/21/16	8.02	29.1	2577	1160
MH-26A	201527	11/13/06	NM	NM	NM	10
		1/15/07	7.89	26.2	316	<10
		4/4/07	7.83	27	325	10
		7/19/07	7.80	26.9	428	20
		1/2/08	7.72	25.3	395	<10
		4/25/08	7.62	25.3	317	100
		7/2/08	7.57	27.8	337	20
		10/17/08	7.70	27.4	327	20
		1/5/09	7.65	26.4	343	13
		4/21/09	7.57	26.3	322	10
		4/13/10	7.60	26.7	332	8
		4/27/11	7.78	25.7	357	8
		4/27/11 DUP	7.78	25.7	357	9
		5/2/12	7.59	27.5	386	9
		4/4/13	7.72	27.0	350	8
		4/15/14	7.78	24.3	210	11.6

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-26B	208427	11/13/06	NM	NM	NM	1560
		1/15/07	7.53	26.4	1310	1590
		4/4/07	7.31	30.5	1448	1620
		7/19/07	7.10	29.0	1652	1590
		7/19/07	7.10	29.0	1652	1570
		1/2/08	7.09	26.5	1849	1670
		4/25/08	6.95	28.8	1095	1630
		7/2/08	6.98	29.1	1835	1660
		10/20/08	7.16	29.2	1760	1650
		1/5/09	7.07	26.4	1661	1540
		1/5/09 DUP	7.07	26.4	1661	1500
		4/21/09	6.85	28.8	1238	1520
		4/13/10	7.27	27.3	1290	1600
		5/5/11	7.17	27.2	2910	1710
		5/1/12	7.26	29.7	1912	1680
		5/1/12 DUP	7.26	29.7	1912	1750
		4/4/13	7.26	28.4	2550	1690
		4/15/14	7.89	27.2	1661	1570
		4/7/15	8.05	27.6	1433	1650
		9/21/16	8.14	28.1	3510	1720
MH-26C	208428	11/13/06	NM	NM	NM	730
		1/15/07	7.89	24.6	1059	740
		4/4/07	7.58	29.5	1128	720
		7/19/07	7.55	30.5	1267	730
		7/19/07	7.55	30.5	1267	740
		1/2/08	7.68	28.2	1411	740
		4/25/08	8.58	27.8	872	580
		7/2/08	7.90	30.8	1251	720
		7/2/08 DUP	7.90	30.8	1251	720
		1/5/09	7.36	25.7	1270	680
		4/21/09	7.49	29.6	1034	660
		4/13/10	7.57	28.4	1078	770
		4/13/10 DUP	7.57	28.4	1078	780
		4/27/11	7.59	29.1	1755	810
		5/1/12	7.56	30.6	1428	820
		4/4/13	7.58	29.3	1533	880
		4/15/14	8.08	28.1	1203	909
		4/15/14 DUP	8.08	28.1	1203	908
		4/7/15	8.06	28.1	1190	970
		9/21/16	8.06	29.6	2674	1160

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-28	903648	11/14/06	NM	NM	NM	1860
		1/9/07	7.22	25.8	2690	1920
		4/17/07	6.98	26.1	1359	1920
		7/16/07	6.89	27.1	1206	1880
		1/21/08	7.39	23.9	903	1940
		4/8/08	6.99	25.5	1852	1900
		7/1/08	6.95	26.62	3322	1680
		10/6/08	6.97	26.7	3500	1910
		1/8/09	7.05	25.7	3600	1910
		4/7/09	6.84	26.4	6300	1860
		10/13/09	6.88	25.7	1589	1800
		4/15/10	7.11	25.1	1399	1900
		10/12/10	6.99	25.3	3460	1820
		5/17/11	6.94	25.6	3380	2000
		10/4/11	7.12	25.8	1390	1800
		5/21/12	6.64	28.8	3360	1600
		10/9/12	6.97	26.8	2980	1900
		4/2/13	6.95	26.9	2930	1867.1
		10/21/13	7.78	25.3	2916	2020
		4/9/14	7.81	24.4	3365	2020
		11/4/14	7.63	24.3	3270	1940
		1/7/15	7.54	24.9	3385	2020
		4/21/15	7.36	25.2	1571	1820
		10/8/15	7.52	25.3	1610	1900
		1/13/16	7.72	24.2	1491	2130
		4/5/16	7.32	28.1	1660	1760
		8/16/16	7.55	26.3	3742	1920
		8/16/16 DUP	7.55	26.3	3742	1960

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-29	903649	11/14/06	NM	NM	NM	1640
		1/9/07	7.47	25.8	2600	1660
		1/9/07	7.47	25.8	2600	1650
		4/17/07	7.01	25.1	1345	1690
		7/16/07	6.95	27.4	1177	1650
		1/18/08	7.17	23.5	1045	1710
		4/8/08	6.98	24.1	1580	1700
		7/1/08	6.99	25.95	3361	1730
		10/6/08	6.95	26.9	3300	1740
		1/9/09	7.03	25.7	9200	1730
		4/7/09	6.80	26.4	7700	1720
		4/7/09 DUP	6.80	26.4	7700	1700
		10/13/09	6.95	25.0	1421	1600
		10/13/09 DUP	6.95	25.0	1421	1700
		4/15/10	6.99	24.9	1358	1700
		10/12/10	7.04	23.9	3290	1520
		4/20/11	6.98	26.0	2950	1790
		4/20/11 DUP	6.98	26.0	2950	1770
		10/4/11	6.91	25.3	1765	1600
		5/21/12	6.62	26.6	3210	1600
		10/9/12	6.97	26.3	2710	1700
		4/2/13	7.06	24.9	2750	1707.1
		12/11/13	7.31	24.3	1645	1770
		4/9/14	7.28	23.6	3176	1800
		11/4/14	7.36	23.6	3260	1870
		1/7/15	7.36	23.7	3310	1790
		1/7/15 DUP	7.36	7.0	3310	1940
		4/21/15	7.54	25.6	1368	1700
MH-30	903884	11/10/06	NM	NM	NM	1690
		1/9/07	7.33	26.2	2780	1760
		4/9/07	7.3	27.3	1529	1810
		7/11/07	7.18	31.9	1694	1820
		1/18/08	7.13	28.5	1147	1830
		4/8/08	7.27	27.1	1505	1830
		7/1/08	7.02	30.73	3740	1660
		10/6/08	6.95	29.8	3900	1810
		1/7/09	7.12	28	3600	1840
		4/7/09	6.81	29.5	3400	1790
		4/7/09 DUP	6.81	29.5	3400	1800
		4/15/10	6.96	28.9	1697	1480
		5/17/11	6.95	27.5	3360	1760
		5/17/11 DUP	6.95	27.5	3360	1750
		4/26/12	7.05	28.1	1618	1738
		6/6/13	7.26	29.5	2630	1760
		6/6/13 DUP	7.26	29.5	2630	1800
		4/8/14	7.20	27.7	3242	1720
		4/21/15	7.33	28.6	1574	1750
		4/5/16	7.24	28.6	1827	1910
		4/5/16 DUP	7.24	28.6	1827	1830

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-1A	907342	8/8/07	7.17	29.0	370	19.2
		1/24/08	7.83	24.0	370	20
		4/9/08	7.42	24.1	383	21
		7/14/08	7.41	27.9	359	16.6
		10/17/08	7.46	27.7	357	17.9
		1/16/09	7.31	22.6	365	18.1
		4/1/09	7.55	26.5	387	18.2
		7/1/09	7.64	28.5	361	16.3
		10/22/09	7.53	26.4	360	16.6
		10/22/09 DUP	7.53	26.4	360	16.6
		4/16/10	7.52	26.7	357	18.5
		10/13/10	7.51	27.5	372	16
		5/5/11	7.51	27.4	401	17.9
		10/6/11	7.79	23.4	371	16.143
		6/12/12	7.40	27.9	371	16.98
		10/24/12	7.69	25.1	368	16.5
		4/8/13	7.55	25.6	363	17.92
		10/23/13	7.72	26.2	246	16.2
		4/29/14	7.73	25.6	278	16.2
		11/12/14	7.72	25.9	303	16.1
		11/12/14 DUP	7.72	25.9	303	16.8
		4/22/15	7.76	26.7	273	18.5
		10/20/15	7.73	26.1	394	18.2
		4/7/16	7.71	25.9	324	18.6
MO-2007-1B	907210	8/2/07	7.41	30.7	321	18.9
		1/24/08	7.78	26.9	375	30
		4/9/08	7.70	23.1	400	35
		7/14/08	7.68	26.6	402	39.8
		10/17/08	7.56	28.1	423	54.3
		1/16/09	7.49	28.2	427	69.7
		4/1/09	7.78	26.4	511	84.1
		7/1/09	7.57	30.1	527	99
		10/22/09	7.63	28.5	600	143
		4/16/10	7.59	26.9	663	212
		10/13/10	7.46	28.7	1026	337
		10/13/10 DUP	7.46	28.7	1026	360
		5/5/11	7.42	28.6	1214	479
		10/6/11	7.84	24.8	1178	604.67
		10/6/11 DUP	7.84	24.8	1178	614.84
		6/12/12	6.99	29.0	1664	766.0
		10/24/12	7.56	26.2	1460	975.8
		4/8/13	7.57	26.5	1577	873.7
		10/23/13	8.51	26.3	971	806
		4/29/14	8.86	26.3	1522	1070
		11/12/14	8.81	26.2	1409	885
		4/22/15	8.88	26.9	1136	987
		4/22/15 DUP	8.88	26.9	1136	1000
		10/20/15	8.91	26.8	1320	990

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-1C	907209	7/31/07	7.35	27.9	523	112
		1/24/08	7.84	26.9	520	140
		4/9/08	7.57	27.3	596	149
		4/9/08 DUP	7.57	27.3	596	153
		7/14/08	7.64	31.4	608	165
		10/21/08	7.80	29.8	573	146
		1/16/09	7.17	27.5	652	233
		1/16/09 DUP	7.17	27.5	652	218
		4/1/09	7.66	27.1	700	229
		7/1/09	7.33	30.8	367	236
		7/1/09 DUP	7.33	30.8	367	227
		10/22/09	7.66	28.1	356	301
		4/16/10	7.66	28.5	730	320
		10/13/10	7.72	29.1	1004	377
		4/20/11	7.28	29.2	1009	381
		10/6/11	8.10	25.9	942	393.94
		6/12/12	7.05	29.5	1085	406.4
		10/24/12	8.40	26.5	694	239.2
		10/24/12 DUP	8.40	26.5	694	235.26
		4/8/13	7.88	26.4	1017	416.3
		10/23/13	8.47	27.9	463	132
		4/29/14	8.49	26.8	610	240
		4/29/14 DUP	8.49	26.8	610	247
		11/12/14	9.18	27.1	284	92.7
		4/22/15	8.89	26.3	229	42.4
		10/20/15	9.88	27.0	319	5.75
MO-2007-2	906765	6/14/07	7.05	32.2	1372	591
		8/9/07	7.11	32.2	1271	520
		1/22/08	7.48	30.9	757	530
		4/17/08	7.32	29.8	818	473
		7/14/08	7.11	31.3	987	472
		7/14/08 DUP	7.11	31.3	987	446
		1/16/09	7.27	30.6	1200	456
		4/1/09	7.34	28.5	922	458
		4/13/10	7.17	30.3	855	439
		4/13/10 DUP	7.17	30.3	855	450
		4/27/11	7.27	28.7	1249	507
		4/27/11 DUP	7.27	28.7	1249	503
		5/2/12	7.30	31.8	1245	543.50
		4/8/13	7.34	30.1	1164	455.7
		4/9/14	8.12	30.0	608	254
		4/9/14 DUP	8.12	30.0	608	248
		4/7/15	7.56	28.1	510	255

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-3B	906816	1/21/08	7.94	26.5	353	40
		4/16/08	7.77	28.2	322	37
		7/14/08	7.70	30.2	338	37.8
		10/22/08	7.69	28.1	379	42.4
		10/22/08 DUP	7.69	28.1	379	41.6
		1/19/09	7.82	28.1	342	36.9
		1/19/09 DUP	7.82	28.1	342	36.4
		4/1/09	7.89	25.7	376	38.2
		7/27/09	7.78	28.2	353	37.2
		10/22/09	7.76	28.0	354	39.1
		1/20/10	7.97	27.6	328	37.9
		4/14/10	7.83	28.6	336	40.4
		7/21/10	7.86	27.7	372	38.7
		10/26/10	7.78	26.6	361	39.1
		1/18/11	7.83	27.3	353	38.2
		5/4/11	7.81	29.3	359	38.1
		7/6/11	7.75	30.2	362	38.3
		10/5/11	8.04	25.7	395	37.822
		11/22/11	8.00	26.1	286	36.7
		1/11/12	7.55	27.0	211	39.0
		5/8/12	7.88	30.8	329	37.64
		8/7/12	7.88	29.1	419	36.26
		10/10/12	7.94	28.1	390	37.01
		1/8/13	8.10	27.0	374	33.77
		4/9/13	8.01	25.5	329	37.54
		5/21/13	8.17	26.9	284	26.96
		8/27/13	8.59	27.8	204	3.47
		8/27/13 DUP	8.59	27.8	204	4.13
		10/24/13	8.03	26.1	279	33.8
		10/24/13 DUP	8.03	26.1	279	33.9
		1/7/14	8.11	24.6	230	2.16
		4/16/14	8.91	25.0	153	<0.5
		7/9/14	8.98	26.1	155	<0.5
		11/13/14	9.40	25.7	167	<0.5
		1/21/15	9.07	25.7	259	<0.5
		4/27/15	8.58	26.3	278	<0.5
		7/7/15	8.46	26.6	274	1.37
		10/21/15	9.10	25.8	207	<0.5
		1/4/16	8.92	24.6	242	8.41
		4/11/16	8.25	26.6	436	11.5
		7/6/16	8.19	26.6	290	3.74
		8/24/16	9.14	26.4	233	<0.5

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-3C	906817	6/28/07	7.93	32.2	570	136
		1/21/08	8.21	27.6	507	130
		4/15/08	7.87	30.1	477	127
		7/17/08	7.98	32.7	493	126
		10/21/08	8.07	32.9	519	103
		1/19/09	8.00	30.7	490	113
		4/1/09	8.09	28.3	541	115
		7/22/09	8.07	31.4	510	107
		10/22/09	8.01	29.8	488	108
		1/20/10	8.20	26.2	469	103
		4/14/10	8.07	30.9	465	110
		7/21/10	8.05	30.4	511	101
		10/26/10	7.92	29.5	471	104
		1/18/11	8.06	29.1	492	106
		5/4/11	8.11	30.4	504	107
		7/6/11	8.02	32.5	248	101
		10/5/11	8.28	29.3	524	96.818
		1/11/12	7.92	29.4	283	104.03
		5/7/12	8.10	30.3	440	95.99
		8/7/12	7.93	30.7	553	93.25
		10/10/12	8.04	29.4	487	99.13
		1/8/13	8.09	26.5	431	62.35
		1/8/13 DUP	8.09	26.5	431	62.62
		4/9/13	8.35	28.2	432	89.78
		8/27/13	8.81	29.6	324	47.00
		10/24/13	8.43	27.4	313	79.0
		1/7/14	8.64	25.1	312	56.9
		4/16/14	9.38	26.4	259	35.6
		7/9/14	8.73	26.5	418	32.1
		11/13/14	9.33	26.6	277	20.2
		1/21/15	9.12	27.6	446	68.5
		1/21/15 DUP	9.12	27.6	446	70.3
		4/27/15	8.40	26.7	282	40.1
		7/7/15	7.60	27.7	315	35.2
		10/21/15	9.42	26.0	360	27.9
		1/4/16	9.28	25.6	387	30.3
		4/11/16	8.23	26.5	354	28.1
		7/6/16	7.69	27.5	359	21.8
		8/24/16	9.89	26.1	422	18.7

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-4A	907213	1/22/08	7.82	25.0	405	40
		4/16/08	7.65	25.8	372	33.1
		7/18/08	7.44	27.4	416	35.3
		10/22/08	7.58	26.9	420	40.1
		1/19/09	7.52	28	392	35.9
		4/2/09	7.85	26.8	393	36.7
		4/2/09 DUP	7.85	26.8	393	36.5
		7/1/09	7.55	26.4	395	36.3
		10/26/09	7.64	27.2	378	35.7
		1/26/10	7.66	25.7	356	36.0
		4/14/10	7.63	25.2	379	37.0
		7/21/10	7.54	26.9	420	34.9
		10/13/10	7.55	26.1	414	35.2
		1/19/11	7.61	25.8	403	35.8
		5/4/11	7.57	26.5	411	35.9
		7/6/11	7.47	27.4	417	35.3
		10/5/11	7.82	24.1	435	34.47
		1/17/12	7.54	24.5	274	37.55
		5/7/12	7.49	24.7	381	35.62
		8/13/12	7.53	26.5	378	35.33
		10/23/12	7.48	27.2	380	94.87
		2/21/13	7.53	28.6	337	33.48
		4/10/13	7.82	26.0	319	34.69
		7/10/13	7.68	25.3	347	36.60
		10/22/13	7.81	23.5	282	35.0
		1/10/14	7.73	23.7	281	35.4
		4/8/14	7.65	24.6	353	34.9
		7/8/14	7.52	24.8	465	34.6
		11/12/14	7.71	24.6	404	34.3
		1/14/15	7.71	24.8	404	34.4
		4/15/15	7.59	25.3	374	39.7
		4/15/15 DUP	7.59	25.3	374	39.1
		7/8/15	7.28	25.5	470	40.2
		7/8/15 DUP	7.28	25.5	470	40.1
		10/22/15	7.72	25.2	410	39.3
		1/4/16	7.21	24.6	488	35.5
		4/7/16	7.30	24.7	438	41.1
		7/5/16	7.42	25.7	489	41.7
		8/24/16	7.74	25.3	497	41.5
		8/24/16 DUP	7.74	25.3	497	42.1

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-4B	907212	1/7/08	7.69	25.5	445	NA
		4/16/08	7.66	26.9	343	33.6
		7/18/08	7.57	29.2	391	34.8
		7/18/08 DUP	7.57	29.2	391	35.1
		10/22/08	7.73	30.8	407	34.7
		1/21/09	7.71	27.3	377	32.9
		4/2/09	7.93	28.3	363	34.6
		7/1/09	7.64	27.8	370	34.7
		10/26/09	7.68	28.7	348	34.5
		1/26/10	7.74	23.7	332	34.1
		4/14/10	7.76	25.1	342	35.1
		7/21/10	7.71	30.2	379	34
		7/21/10 DUP	7.71	30.2	379	34.9
		10/13/10	7.69	28.1	378	34.2
		1/19/11	7.73	26.9	367	34.6
		1/19/11 DUP	7.73	26.9	367	34.4
		5/4/11	7.72	28.1	379	34.5
		7/6/11	7.73	28.0	381	34.4
		10/5/11	8.01	27.6	401	34.194
		10/5/11 DUP	8.01	27.6	401	33.36
		1/17/12	7.81	26.7	259	33.14
		5/7/12	7.83	29.0	342	34.25
		8/13/12	7.75	28.2	353	34.02
		10/23/12	7.72	27.9	364	34.37
		2/21/13	7.75	25.7	299	32.01
		4/10/13	8.06	24.7	312	33.31
		7/10/13	8.48	25.9	200	4.51
		10/22/13	8.86	24.4	142	<0.5
		1/10/14	8.83	23.6	185	<0.5
		4/8/14	8.90	24.6	165	<0.5
		7/8/14	8.75	25.3	220	<0.5
		11/12/14	8.72	25.7	405	29.1
		1/14/15	8.30	25.8	256	16.8
		4/15/15	7.88	26.6	337	35.1
		7/8/15	7.64	25.9	297	16.6
		10/22/15	7.87	25.7	266	0.85
		1/4/16	8.13	25.0	259	<0.5
		1/4/16 DUP	8.13	25.0	259	<0.5
		4/7/16	8.25	25.8	241	1.10
		7/5/16	7.69	26.0	380	8.73
		8/24/16	8.80	25.8	244	3.06

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-4C	907211	8/16/07	7.62	35.2	472	78.7
		1/22/08	8.33	27.3	465	80
		4/16/08	8.19	29.9	420	80
		7/18/08	8.27	31.9	467	78.6
		10/22/08	8.45	31.8	467	85.9
		1/21/09	8.84	29.1	467	78.5
		4/2/09	8.48	30.3	444	81
		7/1/09	8.25	31.1	446	82.7
		10/26/09	8.22	30.5	427	83.9
		10/26/09 DUP	8.22	30.5	427	83.8
		1/26/10	8.40	30.0	409	83.2
		4/14/10	8.11	27.6	423	87.7
		7/21/10	8.23	32.4	467	85.6
		10/13/10	8.19	31.1	462	86.5
		1/19/11	8.21	28.9	447	87.6
		5/4/11	8.27	30.1	468	88.1
		7/6/11	8.17	30.8	468	85
		10/5/11	8.43	30.0	505	89.355
		1/12/12	8.52	29.5	329	92.92
		5/7/12	8.32	30.6	439	91.70
		8/13/12	8.31	28.8	451	91.22
		8/13/12 DUP	8.31	28.8	451	91.48
		10/23/12	8.86	28.5	436	94.65
		2/21/13	7.97	28.4	384	90.93
		4/10/13	8.46	29.3	362	93.24
		7/10/13	8.59	26.6	344	66.70
		10/22/13	9.51	25.6	292	63.1
		1/10/14	9.64	24.2	310	63.4
		4/8/14	9.52	26.2	344	61.8
		7/8/14	9.60	26.4	446	55.4
		11/12/14	9.36	25.8	357	52.9
		1/14/15	9.79	26.3	448	65.0
		4/15/15	8.15	27.9	388	77.3
		7/8/15	8.10	26.6	439	64.3
		10/22/15	9.64	26.2	446	56.1
		1/4/16	9.20	24.6	479	59.9
		4/7/16	8.97	25.9	433	58.4
		7/5/16	7.92	26.7	489	54.3
		8/24/16	9.83	26.0	462	53.7

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-5B	907456	1/7/08	7.96	26.7	1138	NA
		4/17/08	7.94	27.7	877	390
		7/24/08	7.86	31.1	1040	343
		10/23/08	7.87	26.8	1086	412
		1/21/09	7.92	29.4	1049	400
		4/2/09	8.15	30.6	958	366
		1/25/10	7.98	28.8	1010	462
		4/27/10	7.90	29.3	987	427
		12/10/10	7.92	27.1	1215	454
		6/24/11	7.98	31.0	1199	513
		11/21/11	7.98	27.2	1249	494.3
		6/20/12	7.62	30.0	1465	519.3
		11/6/12	7.53	26.6	1420	453.9
		6/12/13	8.07	27.8	1036	430
		10/24/13	7.89	26.4	783	430
		4/29/14	8.19	27.4	1018	447
		10/15/14	8.90	26.4	924	440
		4/28/15	8.04	27.7	1330	502
		4/12/16	7.73	27.3	1351	413
		9/21/16	8.62	27.2	1454	511
MO-2007-5C	907457	8/23/07	7.46	31.4	780	248
		1/7/08	8.26	27.0	851	NA
		4/17/08	8.34	29.7	680	259
		7/24/08	8.30	31.3	746	233
		10/23/08	9.11	30.2	728	257
		1/23/09	9.30	21.1	710	222
		5/13/09	7.64	31.4	715	235
		10/27/09	7.55	30.1	651	238
		4/27/10	7.17	32.3	663	245
		4/27/10 DUP	7.17	32.3	663	248
		12/10/10	7.95	30.5	709	251
		5/24/11	7.76	29.7	682	238
		11/21/11	8.58	26.4	780	235.98
		6/18/12	8.35	30.0	816	238.89
		11/6/12	8.43	26.3	763	262.57
		6/13/13	8.88	25.8	704	251
		11/12/13	8.86	26.1	653	210
		5/6/14	8.92	26.2	565	183
		10/15/14	9.34	25.5	591	155
		4/29/15	9.25	26.9	710	167
		9/21/16	10.76	27.7	730	74.4

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-6A	907607	1/22/08	7.84	26.5	380	30
		1/22/08 DUP	7.84	26.5	380	30
		4/18/08	7.61	27.2	346	20.5
		7/24/08	7.47	28.3	390	16.9
		10/23/08	7.49	25.8	388	18.6
		1/22/09	7.48	26.2	364	26.9
		4/2/09	7.88	25.5	378	23.7
		7/22/09	7.47	29.5	373	19.8
		10/26/09	7.52	27.9	349	23.5
		1/20/10	7.66	26.2	343	24.6
		4/21/10	7.59	27.3	375	34.7
		8/10/10	7.86	31.2	386	26.8
		10/26/10	7.74	28.3	381	33.9
		1/18/11	7.71	26.7	376	30.2
		5/5/11	7.59	29.0	384	29.2
		7/7/11	7.72	29.1	397	36.6
		7/7/11 DUP	7.72	29.1	397	37.1
		10/6/11	8.05	25.8	402	34.109
		1/11/12	7.47	26.8	234	43.51
		1/11/12 DUP	7.47	26.8	234	42.97
		6/12/12	7.65	28.2	389	34.98
		8/13/12	7.84	29.2	362	36.91
		10/18/12	7.77	28.8	368	30.42
		1/8/13	7.70	27.6	354	25.17
		4/9/13	8.04	28.5	329	32.44
		4/9/13 DUP	8.04	28.5	329	32.94
		7/10/13	8.20	27.9	270	18.30
		10/22/13	8.44	28.0	153	10.4
		1/6/14	8.24	36.5	330	19.3
		4/9/14	8.71	26.6	210	5.74
		7/8/14	8.15	28.3	370	10.6
		12/2/14	8.30	27.0	326	18.3
		12/2/14	8.30	27.0	326	18.3
		1/8/15	8.04	26.7	176	13.5
		4/16/15	7.89	27.0	314	19.6
		7/2/15	7.77	29.3	414	28.8
		7/2/15 DUP	7.77	29.3	414	28.6
		10/19/15	8.03	28.3	340	17.4
		4/6/16	7.89	27.9	262	8.26
		7/5/16	8.32	28.8	460	6.74

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-6B	907606	1/21/08	8.13	29.8	467	80
		4/17/08	8.09	29.9	453	90.4
		7/24/08	8.00	33.8	473	81.5
		10/23/08	8.01	28.9	446	63.2
		1/22/09	7.45	29.9	443	84.5
		4/2/09	8.08	27.7	444	75.7
		7/22/09	7.86	32.7	427	63.5
		10/26/09	7.90	30.5	398	62.1
		1/20/10	8.05	27.4	406	69.7
		4/21/10	7.95	29.5	380	57.9
		4/21/10 DUP	7.95	29.5	380	57.9
		8/10/10	7.86	31.2	438	68.8
		8/10/10 DUP	7.86	31.2	438	68.6
		10/26/10	7.89	30.8	399	57.7
		1/18/11	7.85	30.4	396	58.5
		5/5/11	7.84	32.8	404	57.2
		7/7/11	7.88	32.8	405	57.5
		10/6/11	8.08	27.0	405	55.342
		1/11/12	7.57	29.9	235	57.78
		6/12/12	7.62	31.5	399	55.99
		8/13/12	7.61	32.2	374	56.54
		10/18/12	7.82	29.8	383	50.70
		1/8/13	7.68	27.2	380	37.31
		4/9/13	8.03	29.8	361	54.72
		7/10/13	8.80	28.1	306	42.00
		10/22/13	8.79	29.6	261	65.6
		10/22/13 DUP	8.79	29.6	261	66.8
		1/6/14	9.16	26.4	510	91.5
		4/9/14	9.04	27.3	310	85.7
		7/8/14	9.13	28.7	520	89.2
		12/2/14	8.88	26.6	322	82.3
		1/8/15	8.76	27.3	294	84.2
		4/16/15	9.03	26.0	303	64.3
		7/2/15	8.67	26.4	443	NS
		8/17/16	9.39	29.0	370.0	28.5

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2009-1	910458	4/24/09	7.23	31.3	397	62.1
		7/29/09	8.18	32.9	495	97.7
		7/29/09 DUP	8.18	32.9	495	96.4
		11/3/09	8.17	29.5	513	109
		1/25/10	8.23	29.2	481	82.1
		4/20/10	8.21	30.4	467	99
		8/10/10	8.23	31.4	528	109
		12/15/10	8.29	29.0	504	95
		12/15/10 DUP	8.29	29.0	504	94
		2/2/11	8.69	26.9	432	92
		6/16/11	8.30	32.7	468	102
		8/31/11	8.33	31.1	560	108
		12/1/11	8.57	28.9	479	91.82
		1/11/12	8.18	29.9	292	93.84
		5/9/12	8.47	25.8	479	97.69
		8/15/12	8.47	32.7	454	102.4
		11/29/12	8.64	26.5	480	94.26
		1/8/13	8.79	27.0	522	98.57
		4/10/13	8.67	29.8	403	105.80
		7/11/13	8.67	27.9	450	118.00
		10/16/13	8.62	27.6	526	115
		1/6/14	9.68	24.4	451	89.3
		4/24/14	8.55	29.8	499	98.2
		7/8/14	9.25	26.8	493	81.1
		7/8/14 DUP	9.25	26.8	493	87.1
		12/2/14	8.69	27.3	353	89.8
		1/13/15	8.90	26.7	226	31.2
		4/15/15	8.44	27.3	488	104.0
		7/7/15	8.73	27.6	494	78.1
		10/20/15	9.37	25.6	584	68.9
		1/6/16	8.21	24.3	419	41.7
		4/12/16	8.55	27.1	521	23.5
		7/5/16	8.67	27.4	544	30.3
MW-2016-5A	919635	8/10/16	7.59	26.2	394.4	27
MW-2016-5B	919472	8/4/16	7.82	29.4	373.4	46
MW-2016-06	919676	8/16/16	7.59	28.4	1236	490

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
NP-2	624028	6/4/07	7.20	25.9	411	41.2
		7/18/07	7.30	23.2	816	NA
		6/4/07	7.20	25.9	411	41.2
		8/13/07	7.16	26.0	441	41.7
		1/11/08	7.60	25.0	760	43.5
		1/11/08 DUP	7.60	25.0	760	43.8
		4/17/08	7.34	25.4	379	40
		4/17/08 DUP	7.34	25.4	379	33
		7/11/08	7.62	25.9	455	40.5
		10/6/08	7.57	25.1	405	39.7
		2/9/09	7.61	25.3	337	42.4
		4/24/09	6.89	24.6	510	32.1
		9/17/09	6.68	26.6	414	40
		12/31/09	7.60	23.6	387	40.7
		2/17/10	6.35	24.7	450	42.0
		2/17/10 DUP	6.35	24.7	450	42.0
		4/22/10	7.25	23.49	447	41.9
		8/5/10	7.67	26.0	429	41.2
		10/25/10	7.66	25.3	446	41.4
		1/19/11	7.69	25.5	402	41.9
		5/3/11	7.84	25.3	413	43.5
		7/18/11	7.72	25.8	431	44.8
		7/18/11 DUP	7.72	25.8	431	44.6
		12/5/11	8.11	23.1	396	58.63
		3/21/12	7.86	24.9	337	64.11
		6/18/12	7.83	26.9	463	64.90
		8/15/12	8.01	26.3	357	65.72
		11/29/12	8.02	24.1	396	70.13
		2/20/13	7.94	23.6	376	69.34
		6/17/13	7.96	25.6	379	71.6
		8/27/13	7.82	25.4	337	64.3
		10/30/13	7.57	24.5	264	59.6
		1/7/14	7.57	23.7	329	63.0
		4/23/14	7.80	24.7	410	55.2
		7/1/14	7.59	24.6	448	48.1
		10/13/14	7.98	25.3	370	41.1
		10/13/14 DUP	7.98	25.3	370	41.3
		1/14/15	8.08	24.8	426	42.9
		8/23/16	7.84	26.0	468	45.9
PS-1	220861	2/3/14	7.21	24.7	2600	1310
		4/14/14	7.56	27.1	1461	1250
		7/9/14	6.71	27.4	2320	1270
		11/10/14	7.39	26.5	1806	1150
		1/12/15	7.72	26.6	1572	1130
		4/1/15	7.64	27.8	1268	1140
		7/15/15	7.18	26.6	2180	1180
		11/3/15	7.63	26.1	1393	1150
		1/6/16	7.38	24.8	1518	1210
		5/9/16	7.49	26.7	1247	1220
		8/18/16	7.56	27.4	2546	1190

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
PS-2	220862	2/3/14	7.01	25.1	1935	1080
		2/3/14 DUP	7.01	25.1	1935	1090
		4/14/14	7.62	26.6	1303	1050
		7/9/14	6.79	27.5	1934	1120
		11/10/14	7.09	26.5	1689	1020
		1/12/15	7.71	25.9	1482	1000
		4/1/15	7.62	27.8	1218	1000
		7/15/15	7.51	26.5	1894	1040
		11/3/15	7.70	25.7	1358	1010
		1/6/16	7.40	25.5	1483	1030
		5/9/16	7.57	26.9	1249	1070
		8/18/16	7.53	28.0	2215	1040
PS-3	220863	2/3/14	7.04	25.3	1810	975
		4/14/14	7.57	26.7	1270	996
		4/14/14 DUP	7.57	26.7	1270	997
		7/9/14	6.76	27.6	1799	1120
		11/10/14	7.26	26.5	1658	1090
		1/12/15	7.75	26.0	1457	1010
		4/1/15	7.67	29.1	1184	1010
		7/15/15	7.56	27.2	1854	1040
		11/3/15	7.68	26.6	1337	983
		1/6/16	7.40	24.8	1455	1040
		5/9/16	7.55	27.2	1740	1020
		8/18/16	7.48	27.5	2202	1000
		8/18/16 DUP	7.48	27.5	2202	1020
PS-4	220864	2/3/14	7.07	25.2	2570	1280
		4/14/14	7.48	27.6	1393	1260
		7/9/14	7.23	27.5	2330	1300
		11/10/14	7.17	26.9	1923	1260
		1/12/15	7.62	26.3	1664	1220
		4/1/15	7.64	28.2	1306	1230
		4/1/15 DUP	7.64	28.2	1306	1240
		7/15/15	6.69	27.2	2280	1240
		11/3/15	7.54	26.6	1412	1230
		1/6/16	7.37	24.2	1560	1290
		1/6/16 DUP	7.37	24.2	1560	1290
		5/9/16	7.52	27.1	1430	1280
		8/18/16	7.53	27.6	2667	1280

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
PZ-7	561870	11/16/06	NM	NM	NM	270
		1/12/07	7.30	21.6	920	340
		4/17/07	7.13	23.8	777	360
		7/24/07	7.31	28.2	979	360
		1/7/08	7.02	19.2	1106	400
		4/28/08	7.09	27.6	699	440
		7/11/08	7.29	24.5	1173	400
		7/11/08 DUP	7.29	24.5	1173	400
		10/14/08	8.31	25.0	1300	420
		1/13/09	7.46	21.6	5200	440
		4/6/09	6.90	24.2	1100	460
		4/23/10	6.12	20.51	1400	432
		5/18/11	7.04	24.2	1463	472
		5/18/11 DUP	7.04	24.2	1463	470
		6/6/12	6.93	25.9	1458	489.1
		6/10/13	7.20	29.2	1038	500
		4/8/14	7.11	24.0	966	428
		4/21/15	7.05	22.8	822	434
		4/26/16	7.10	22.6	829	441
PZ-8	561866	11/14/06	NM	NM	NM	470
		1/10/07	6.6	21.0	985	460
		4/11/07	7.41	19.8	1074	540
		7/12/07	7.27	27.3	935	450
		1/3/08	7.52	23.1	1045	320
		4/8/08	7.16	25.4	962	500
		7/1/08	7.15	26.49	1203	400
		10/8/08	7.22	28.2	1400	460
		1/8/09	7.05	22.3	1000	330
		4/8/09	6.54	24.1	900	280
		4/22/10	6.88	16.3	1230	305
		4/21/11	7.05	21.5	1147	364
		4/25/12	6.41	24.1	935	344.9
		6/10/13	7.35	26.7	943	380
		4/23/14	7.16	23.7	1216	480
		4/15/15	6.84	24.6	780	454
		4/26/16	6.98	24.7	833	422

TABLE 3
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
TMM-1	616156	6/19/07	7.73	29.7	351	14.1
		8/6/07	8.04	25.2	505	<10
		1/10/08	7.77	24.2	254	<0.5
		4/18/08	7.54	25.1	268	<1
		7/9/08	7.94	27.3	296	7.3
		10/9/08	8.14	29.7	281	<0.5
		2/4/09	7.80	24.4	236	5.7
		4/21/09	7.92	26.7	281	5.5
		10/14/09	8.12	31.1	256	0.6
		4/20/10	8.08	27.0	281	12
		10/6/10	8.56	27.4	269	<0.5
		4/21/11	7.96	26.8	303	11.6
		12/21/11	7.10	20.4	1580	<0.5
		5/15/12	8.28	28.8	32.8	7.93
		11/23/12	7.64	22.8	479	<0.5
		11/23/12 DUP	7.64	22.8	479	<0.5
		6/19/13	8.41	29.9	263	1.43
		10/29/13	7.11	24.8	183	<0.5
		4/23/14	8.49	23.6	266	<0.5

Notes:
ADWR = Arizona Department of Water Resources
SU = Standard Units
deg C = degrees Celsius
µS/cm = microsiemens per centimeter
mg/L = milligrams per Liter
NA = not analyzed
NM = not measured
NS = no sample
DUP = Duplicate sample

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CC of GV	501760	HGC	3527876.220	501635.382	2823.45	1/15/07		253.15		2570.30	Sierrita
						4/16/07		254.20		2569.25	
						7/9/07		259.79		2563.66	
						1/10/08		257.26		2566.19	
						7/7/08		261.09		2562.36	
						11/14/08		263.13		2560.32	
						2/4/09		258.48		2564.97	
						4/21/09		258.79		2564.66	
						4/22/10		259.51		2563.94	
						5/14/13		258.20		2565.25	
CCGV2	627484	Sierrita	3527694.881	502116.8433	2805.88	6/13/16		322.45	Dynamic	2483.43	Sierrita
CW-3	627483	HGC	3523809.985	500047.663	2941.71	6/6/07		265.35		2676.36	Sierrita
						8/10/07		267.40		2674.31	
						11/6/07		269.98		2671.73	
						1/11/08		264.40		2677.31	
						4/17/08		266.46		2675.25	
						7/11/08		270.95		2670.76	
						10/6/08		271.78		2669.93	
						2/9/09		267.51		2674.20	
						4/24/09		269.06		2672.65	
						12/31/09		272.10		2669.61	
						4/22/10		271.91		2669.80	
						10/25/10		273.54		2668.17	
						5/2/11		272.50		2669.21	
						12/5/11		274.20		2667.51	
						6/26/12		259.51		2682.20	
						12/13/12		278.81		2662.90	
						6/13/13		283.48		2658.23	
						11/12/13		286.51		2655.20	
						3/12/14		286.62		2655.09	
						4/29/14		289.87		2651.84	
						5/6/14		289.87		2651.84	
						6/23/14		289.83		2651.88	
						7/28/14		296.29		2645.42	
						8/7/14		297.18		2644.53	
						9/8/14		298.21	Static	2643.50	
						10/15/14		299.49		2642.22	
						11/26/14		300.17		2641.54	
						12/17/14		300.75	Static	2640.96	
						1/29/15		301.17	Static[2]	2640.54	
						2/27/15		301.40	Static[2]	2640.31	
						3/18/15		301.16	Static[2]	2640.55	
						4/28/15		304.04	Static[2]	2637.67	
						5/11/15		303.79	Static[2]	2637.92	
						6/2/15		304.11	Static[2]	2637.60	
						7/24/15		307.31	Static[2]	2634.40	
						8/25/15		308.58	Static[2]	2633.13	
						10/28/15		309.02	Static[2]	2632.69	
						11/5/15		308.88	Static[2]	2632.83	
						1/7/16		308.56	Static[2]	2633.15	Sierrita
						2/12/16		308.40	Static[2]	2633.31	Sierrita
						3/8/16		308.34	Static[2]	2633.37	Sierrita
						6/9/16		311.20	Static[2]	2630.51	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-6	627485	CWC	3525794.239	500891.072	2867.00	12/4/06		247.50		2619.50	Sierrita
						1/3/07		245.00		2622.00	
						5/24/07		252.25		2614.75	
						7/10/07		252.15		2614.85	
						10/2/07		253.05		2613.95	
						1/8/08		245.81		2621.19	
						4/17/08		254.20		2612.80	
						7/8/08		253.80		2613.20	
						10/7/08		256.30		2610.70	
						2/6/09		249.27		2617.73	
						4/22/09		253.15		2613.85	
						9/22/09		256.80		2610.20	
						11/5/09		258.10		2608.90	
						2/10/10		250.76		2616.24	
						5/14/10		252.78		2614.22	
						7/27/10		257.35		2609.65	
						10/14/10		257.22		2609.78	
						2/24/11		250.38		2616.62	
						4/28/11		254.32		2612.68	
						7/20/11		257.20		2609.80	
						12/14/11		253.57		2613.43	
						1/24/12		252.33		2614.67	
						5/9/12		255.74		2611.26	
						8/29/12		258.30		2608.70	
						12/12/12		256.33		2610.67	
						2/6/13		254.67		2612.33	
						5/15/13		259.27		2607.73	
						7/17/13		263.01		2603.99	
						10/23/13		264.66		2602.34	
						1/14/14		259.78		2607.22	
						4/16/14		265.79		2601.21	
						10/13/14		279.38	Static[2]	2587.62	
						1/13/15		279.20	Static[2]	2587.80	
						4/14/15		284.00	Static[2]	2583.00	
						7/27/15		290.59	Static[2]	2576.41	
						10/20/15		290.71	Static[2]	2576.29	
						1/20/16		290.45	Static[2]	2576.55	Sierrita
						4/19/16		293.12	Static[2]	2573.88	Sierrita
						8/22/16		298.70	Dynamic	2568.30	Sierrita
CW-7	502546	CWC	3528094.155	499659.842	2987.50	2/2/07		425.00		2562.50	Sierrita
						5/14/07		424.15		2563.35	
						7/10/07		426.50		2561.00	
						10/2/07		427.60		2559.90	
						1/8/08		427.50		2560.00	
						4/17/08		426.40		2561.10	
						7/8/08		428.40		2559.10	
						10/7/08		429.80		2557.70	
						2/6/09		426.62		2560.88	
						4/22/09		424.30		2563.20	
						5/14/10		438.35		2549.15	
						4/28/11		429.50		2558.00	
						5/9/12		425.90		2561.60	
						5/15/13		458.53		2528.97	
						4/16/14		440.68		2546.82	
						6/18/15		461.75	Static	2525.75	
						10/20/15		465.40	Static	2522.10	
						4/19/16		468.83	Static	2518.67	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-8	543600	CWC	3525661.191	499798.520	2957.50	1/3/07		336.50		2621.00	Sierrita
						5/24/07		338.14		2619.36	
						8/10/07		339.80		2617.70	
						10/2/07		340.60		2616.90	
						1/8/08		337.97		2619.53	
						4/17/08		339.20		2618.30	
						7/8/08		341.75		2615.75	
						10/7/08		342.75		2614.75	
						2/6/09		339.12		2618.38	
						4/22/09		341.20		2616.30	
						4/12/10		342.00		2615.50	
						4/28/11		342.68		2614.82	
						5/9/12		340.12		2617.38	
						5/15/13		347.39		2610.11	
						4/16/14		359.08		2598.42	
						6/18/15		384.24	Static	2573.26	
						10/20/15		387.56	Static	2569.94	
						4/19/16		391.20	Static	2566.30	Sierrita
CW-9[3]	588121	Google Earth 2016	3528740.784	501072.040	2863.00	12/4/06		306.00		2557.00	Sierrita
						1/3/07		304.20		2558.80	
						5/24/07		309.40		2553.60	
						7/10/07		310.20		2552.80	
						10/2/07		310.70		2552.30	
						1/8/08		308.82		2554.18	
						4/17/08		308.00		2555.00	
						7/8/08		315.60		2547.40	
						10/7/08		316.05		2546.95	
						2/6/09		309.80		2553.20	
						4/22/09		311.10		2551.90	
						7/30/09		316.5		2546.50	
						11/5/09		321.60		2541.40	
						2/10/10		316.69		2546.31	
						5/14/10		316.20		2546.80	
						7/27/10		313.63		2549.37	
						10/14/10		318.65		2544.35	
						2/24/11		309.94		2553.06	
						4/28/11		313.41		2549.59	
						7/20/11		315.45		2547.55	
						12/14/11		314.17		2548.83	
						1/24/12		312.56		2550.44	
						5/9/12		314.39		2548.61	
						8/29/12		318.12		2544.88	
						12/12/12		317.48		2545.52	
						2/6/13		313.90		2549.10	
						5/15/13		313.79		2549.21	
						7/17/13		316.52		2546.48	
						10/23/13		319.19		2543.81	
						1/14/14		319.38		2543.62	
						4/16/14		317.82		2545.18	
						10/13/14		330.96	Static[2]	2532.04	
						1/13/15		328.35	Static[2]	2534.65	
						4/14/15		331.47	Static[2]	2531.53	
						7/27/15		338.28	Static[2]	2524.72	
						10/20/15		342.55	Static[2]	2520.45	
						1/20/16		338.6	Static[2]	2524.40	Sierrita
						4/19/16		339.68	Static[2]	2523.32	Sierrita
						4/28/16		337.98	Static[2]	2525.02	Clear Creek
						8/22/16		359.47	Static[2]	2503.53	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-10	207982	CWC	3523455.502	500913.364	2868.50	12/4/06		178.25		2690.25	Sierrita
						1/3/07		177.20		2691.30	
						5/24/07		196.30		2672.20	
						7/10/07		198.79		2669.71	
						10/2/07		190.85		2677.65	
						1/8/08		180.95		2687.55	
						4/17/08		187.95		2680.55	
						7/8/08		203.25		2665.25	
						10/7/08		190.65		2677.85	
						2/6/09		184.40		2684.10	
						4/22/09		191.12		2677.38	
						7/30/09		197.3		2671.20	
						11/5/09		199.10		2669.40	
						2/10/10		186.00		2682.50	
						5/14/10		190.10		2678.40	
						7/27/10		198.52		2669.98	
						10/14/10		195.31		2673.19	
						2/24/11		191.62		2676.88	
						4/28/11		196.15		2672.35	
						7/20/11		199.75		2668.75	
						12/14/11		191.70		2676.80	
						1/24/12		189.73		2678.77	
						5/9/12		197.20		2671.30	
						8/29/12		201.50		2667.00	
						12/12/12		199.93		2668.57	
						2/6/13		197.87		2670.63	
						5/15/13		209.50		2659.00	
						7/17/13		212.61		2655.89	
						10/23/13		215.14		2653.36	
						1/14/14		203.86		2664.64	
						4/16/14		210.15		2658.35	
						7/22/14		220.59	Static[2]	2647.91	
						10/13/14		223.99	Static[2]	2644.51	
						1/13/15		216.94	Static[2]	2651.56	
						4/14/15		230.95	Static[2]	2637.55	
						7/27/15		236.30	Static[2]	2632.20	
						10/20/15		224.82	Static[2]	2643.68	
						1/20/16		222.82	Static[2]	2645.68	Sierrita
						4/19/16		226.81	Static[2]	2641.69	
						8/22/16		239.08	Dynamic	2629.42	Sierrita
CW-11	608518	Sierrita	3531004.624	502441.590	2778.61	6/18/15		318.58	Dynamic	2460.03	Sierrita
						10/20/15		286.51	Static[2]	2492.10	
						4/19/16		281.75	Static[2]	2496.86	Sierrita
ESP-1	623102	Sierrita	3526448.677	499969.682	2953.43	11/28/06		352.20		2601.23	Sierrita
						1/3/07		350.10		2603.33	
						5/24/07		349.55		2603.88	
						7/10/07		351.11		2602.32	
						10/12/07		343.00		2610.43	
						10/30/08		355.47		2597.96	
						1/29/09		354		2599.43	
						4/16/09		350.50		2602.93	
						11/10/09		355.67		2597.76	
						4/28/10		354.10		2599.33	
						10/15/10		357.40		2596.03	
						5/3/11		355.79		2597.64	
						11/22/11		357.82		2595.61	
						12/13/11		355.60		2597.83	
						6/19/12		357.76		2595.67	
						11/21/12		358.70		2594.73	
						5/20/13		357.15		2596.28	
						4/28/14		Obstructed		NA	

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
ESP-2	623103	Sierrita	3526924.656	500241.637	2934.60	11/28/06		342.55		2592.05	Sierrita
						1/3/07		343.10		2591.50	
						5/14/07		339.90		2594.70	
						7/10/07		341.25		2593.35	
						10/12/07		342.26		2592.34	
						1/23/08		340.40		2594.20	
						4/18/08		340.93		2593.67	
						7/25/08		342.30		2592.30	
						10/30/08		344.82		2589.78	
						1/29/09		395.16		2539.44	
						4/16/09		341.45		2593.15	
						11/10/09		346.50		2588.10	
						4/28/10		343.99		2590.61	
						10/15/10		347.33		2587.27	
						5/3/11		345.44		2589.16	
						11/22/11		347.26		2587.34	
						6/19/12		346.84		2587.76	
						11/21/12		348.11		2586.49	
						5/20/13		348.45		2586.15	
						11/5/13		362.28		2572.32	
						3/12/14		354.98		2579.62	
						4/28/14		358.88		2575.72	
						5/6/14		358.90		2575.70	
						6/23/14		358.86		2575.74	
						7/28/14		365.59		2569.01	
						8/8/14		367.53		2567.07	
						9/9/14		368.29	Static	2566.31	
						10/1/14		369.45		2565.15	
						11/26/14		369.90		2564.70	
						12/17/14		370.22	Static	2564.38	
						1/29/15		370.43	Static	2564.17	
						2/27/15		370.56	Static	2564.04	
						3/26/15		376.27	Static	2558.33	
						4/29/15		377.94	Static	2556.66	
						5/12/15		378.70	Static	2555.90	
						6/21/15		379.41	Static	2555.19	
						7/24/15		382.81	Static	2551.79	
						8/14/15		384.60	Static	2550.00	
						10/21/15		382.96	Static	2551.64	
						11/2/15		382.38	Static	2552.22	
						1/4/16		384.44	Static	2550.16	Sierrita
						2/9/16		385.29	Static	2549.31	Sierrita
						3/11/16		385.93	Static	2548.67	
						6/7/16		389.11	Static	2545.49	Sierrita
						9/7/16		391.55	Static	2543.05	Sierrita
ESP-3	623104	Sierrita	3527377.239	500234.067	2935.80	11/28/06		360.40		2575.40	Sierrita
						1/3/07		358.60		2577.20	
						5/14/07		355.85		2579.95	
						7/1/07		358.05		2577.75	
						10/30/08		361.12		2574.68	
						1/29/09		410.05		2525.75	
						4/16/09		353.20		2582.60	
						11/12/09		363.37		2572.43	
						4/28/10		361.69		2574.11	
						10/15/10		365.00		2570.80	
						5/3/11		363.35		2572.45	
						11/22/11		364.91		2570.89	
						6/19/12		364.50		2571.30	
						11/21/12		357.92		2577.88	
						5/22/13		356.23		2579.57	
						11/5/13		367.84		2567.96	
						4/28/14		374.61		2561.19	
						10/1/14		375.53	Static	2560.27	
						5/12/15		393.85	Static	2541.95	
						10/21/15		398.32	Static	2537.48	
						2/9/16		400.51	Static	2535.29	Sierrita
						6/7/16		397.10	Static	2538.70	Sierrita
						9/7/16		406.68	Static	2529.12	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
ESP-4	623105	Sierrita	3526132.758	499916.830	2958.60	11/28/06		349.20		2609.40	Sierrita
						1/12/07		348.30		2610.30	
						5/4/07		346.90		2611.70	
						7/24/07		348.80		2609.80	
						10/12/07		352.41		2606.19	
						1/23/08		349.65		2608.95	
						4/18/08		350.39		2608.21	
						7/25/08		352.13		2606.47	
						10/30/08		355.42		2603.18	
						1/29/09		352.50		2606.10	
						4/16/09		356.87		2601.73	
						10/23/09		355.64		2602.96	
						4/28/10		351.56		2607.04	
						10/15/10		358.16		2600.44	
						5/3/11		355.65		2602.95	
						11/22/11		356.91		2601.69	
						11/12/12		358.92		2599.68	
						5/20/13		363.95		2594.65	
						11/5/13		362.37		2596.23	
						4/28/14		372.14		2586.46	
						10/1/14		383.76	Static	2574.84	
						5/12/15		393.63	Static	2564.97	
						10/19/15		399.74	Static	2558.86	
						6/7/16		411.20	Static	2547.40	Sierrita
ESP-5	623106	Sierrita	3527082.232	502007.895	2820.00	2/12/07		219.50		2600.50	Sierrita
						5/4/07		217.75		2602.25	
						7/3/07		224.60		2595.40	
						11/8/07		228.42		2591.58	
						1/28/08		222.00		2598.00	
						4/22/08		220.08		2599.92	
						8/7/08		225.88		2594.12	
						11/3/08		228.92		2591.08	
						2/17/09		221.89		2598.11	
						6/2/09		224.10		2595.90	
						4/28/10		223.28		2596.72	
						5/3/11		224.15		2595.85	
						6/19/12		229.73		2590.27	
						5/20/13		230.08		2589.92	
						4/29/14		232.72		2587.28	
						6/17/15		241.10	Static	2578.90	
						11/24/15		242.02	Static	2577.98	
						4/28/16		243.73	Static	2576.27	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-1	221662	Sierrita	3524075.673	498327.36	3071.40	5/10/13	396.74		Static		BW, 2015a
						5/10/13	427.19		Dynamic		BW, 2015a
						1/15/14		438.94	Dynamic	2632.46	Sierrita
						1/15/14	438.94		Dynamic		BW, 2015a
						1/22/14		439.09	Dynamic	2632.31	Sierrita
						1/22/14	439.09		Dynamic		BW, 2015a
						1/29/14		379.85	Dynamic	2691.55	Sierrita
						2/5/14	436.58		Dynamic		BW, 2015a
						2/12/14	437.02		Dynamic		BW, 2015a
						3/13/14		446.91	Dynamic	2624.49	Sierrita
						5/14/14		453.40	Dynamic	2618.00	Sierrita
						5/30/14	453.40		Dynamic		BW, 2015a
						6/5/14		457.50	Dynamic	2613.90	Sierrita
						6/5/14	457.50		Dynamic		BW, 2015a
						7/6/14		455.90	Dynamic	2615.50	Sierrita
						7/6/14	454.90		Dynamic		BW, 2015a
						7/31/14		457.00	Dynamic	2614.40	Sierrita
						7/31/14	457.00		Dynamic		BW, 2015a
						8/27/14		457.80	Dynamic	2613.60	Sierrita
						8/27/14	457.80		Dynamic		BW, 2015a
						10/1/14		428.40	Static	2643.00	Sierrita
						10/1/14	427.4		Static		BW, 2015a
						11/4/14		462.50	Static	2608.90	Sierrita
						11/4/14	461.50		Dynamic		BW, 2015a
						12/2/14		464.00	Dynamic	2607.40	Sierrita
						12/2/14	463.00		Dynamic		BW, 2015a
						1/4/15		464.60	Dynamic	2606.80	Sierrita
						3/3/15		465.70	Dynamic	2605.70	Sierrita
						4/9/15		432.05	Static	2639.35	Sierrita
						5/2/15		431.60	Static	2639.80	Sierrita
						6/11/15		431.55	Static	2639.85	Sierrita
						7/6/15		467.05	Dynamic	2604.35	Sierrita
						8/18/15		470.50	Dynamic	2600.90	Sierrita
						10/7/15		472.85	Dynamic	2598.55	Sierrita
						11/4/15		473.70	Dynamic	2597.70	Sierrita
						12/9/15		475.32	Dynamic	2596.08	Sierrita
						1/12/16		474.00	Dynamic	2597.40	Sierrita
						4/29/16		593.55	Dynamic	2477.85	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-2	221663	Sierrita	3524527.902	498316.081	3082.11	4/29/13	416.50		Static		BW, 2015a
						4/29/13	446.60		Dynamic		BW, 2015a
						1/15/14		459.42	Dynamic	2622.69	Sierrita
						1/15/14	459.42		Dynamic		BW, 2015a
						1/22/14		460.08	Dynamic	2622.03	Sierrita
						1/22/14	460.08		Dynamic		BW, 2015a
						1/28/14	462.21		Dynamic		BW, 2015a
						1/29/14		462.21	Dynamic	2619.90	Sierrita
						2/5/14	463.82		Dynamic		BW, 2015a
						3/13/14		468.92	Dynamic	2613.19	Sierrita
						5/13/14		444.00	Dynamic	2638.11	Sierrita
						5/30/14	474.00		Dynamic		BW, 2015a
						6/5/14		476.75	Dynamic	2605.36	Sierrita
						6/5/14	476.75		Dynamic		BW, 2015a
						7/6/14		479.70	Dynamic	2602.41	Sierrita
						7/6/14	479.03		Dynamic		BW, 2015a
						7/31/14		480.80	Dynamic	2601.31	Sierrita
						7/31/14	480.80		Dynamic		BW, 2015a
						8/27/14		482.20	Dynamic	2599.91	Sierrita
						8/27/14	482.20		Dynamic		BW, 2015a
						10/1/14		453.20	Static	2628.91	Sierrita
						10/1/14	452.53		Static		BW, 2015a
						11/4/14		487.37	Dynamic	2594.74	Sierrita
						11/4/14	486.70		Dynamic		BW, 2015a
						12/2/14		489.05	Dynamic	2593.06	Sierrita
						12/2/14	488.38		Dynamic		BW, 2015a
						1/4/15		489.95	Dynamic	2592.16	Sierrita
						3/3/15		491.92	Dynamic	2590.19	Sierrita
						4/9/15		491.90	Dynamic	2590.21	Sierrita
						5/2/15		492.10	Dynamic	2590.01	Sierrita
						6/11/15		491.50	Dynamic	2590.61	Sierrita
						7/6/15		493.90	Dynamic	2588.21	Sierrita
						8/18/15		496.50	Dynamic	2585.61	Sierrita
						10/7/15		UTM	Static	NA	Sierrita
						11/4/15		499.60	Dynamic	2582.51	Sierrita
						12/9/15		502.00	Dynamic	2580.11	Sierrita
						1/12/16		500.65	Dynamic	2581.46	Sierrita
						4/29/16		504.00	Dynamic	2578.11	Sierrita

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Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-3	221664	Sierrita	3525294.908	498356.883	3083.90	4/20/13[1]	461.90		Static		BW, 2015a
						4/20/13	532.50		Dynamic		BW, 2015a
						1/15/14		497.29	Dynamic	2586.61	Sierrita
						1/15/14	497.29		Dynamic		BW, 2015a
						1/22/14		497.31	Dynamic	2586.59	Sierrita
						1/22/14	497.31		Dynamic		BW, 2015a
						1/28/14	497.98		Dynamic		BW, 2015a
						1/29/14		497.98	Dynamic	2585.92	Sierrita
						2/5/14	499.18		Dynamic		BW, 2015a
						3/13/14		502.16	Dynamic	2581.74	Sierrita
						5/14/14		508.87	Dynamic	2575.03	Sierrita
						5/30/14	508.87		Dynamic		BW, 2015a
						6/9/14		509.68	Dynamic	2574.22	Sierrita
						6/9/14	509.68		Dynamic		BW, 2015a
						7/6/14		511.70	Dynamic	2572.20	Sierrita
						7/6/14	510.70		Dynamic		BW, 2015a
						7/31/14		513.10	Dynamic	2570.80	Sierrita
						7/31/14	513.10		Dynamic		BW, 2015a
						8/27/14		514.25	Dynamic	2569.65	Sierrita
						8/27/14	514.25		Dynamic		BW, 2015a
						10/1/14		497.80	Static	2586.10	Sierrita
						10/1/14	496.80		Static		BW, 2015a
						11/4/14		519.50	Dynamic	2564.40	Sierrita
						11/4/14	518.50		Dynamic		BW, 2015a
						12/2/14		521.35	Dynamic	2562.55	Sierrita
						12/2/14	520.35		Dynamic		BW, 2015a
						1/4/15		523.10	Dynamic	2560.80	Sierrita
						2/4/15		522.10	Dynamic	2561.80	Sierrita
						3/3/15		524.05	Dynamic	2559.85	Sierrita
						4/9/15		525.40	Dynamic	2558.50	Sierrita
						5/2/15		526.95	Dynamic	2556.95	Sierrita
						6/11/15		509.50	Static	2574.40	Sierrita
						7/6/15		529.40	Dynamic	2554.50	Sierrita
						8/18/15		530.00	Dynamic	2553.90	Sierrita
						10/7/15		530.70	Dynamic	2553.20	Sierrita
						11/4/15		535.70	Dynamic	2548.20	Sierrita
						12/9/15		538.30	Dynamic	2545.60	Sierrita
						1/12/16		UTM	Static	NA	Sierrita
						4/8/16		541.65	Dynamic	2542.25	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-4	221665	Sierrita	3525934.456	498354.148	3097.92	5/29/13	497.96		Static		BW, 2015a
						5/29/13	544.45		Dynamic		BW, 2015a
						1/15/14		548.14	Dynamic	2549.78	Sierrita
						1/15/14	548.14		Dynamic		BW, 2015a
						1/22/14		550.75	Dynamic	2547.17	Sierrita
						1/22/14	550.75		Dynamic		BW, 2015a
						1/28/14	552.10		Dynamic		BW, 2015a
						1/29/14		552.10	Dynamic	2545.82	Sierrita
						2/5/14	554.16		Dynamic		BW, 2015a
						3/13/14		559.71	Dynamic	2538.21	Sierrita
						5/14/14		570.41	Dynamic	2527.51	Sierrita
						5/30/14	570.41		Dynamic		BW, 2015a
						6/9/14		572.45	Dynamic	2525.47	Sierrita
						6/9/14	572.45		Dynamic		BW, 2015a
						7/6/14		576.05	Dynamic	2521.87	Sierrita
						7/6/14	574.88		Dynamic		BW, 2015a
						7/31/14		578.25	Dynamic	2519.67	Sierrita
						7/31/14	578.25		Dynamic		BW, 2015a
						8/27/14		580.50	Dynamic	2517.42	Sierrita
						8/27/14	580.50		Dynamic		BW, 2015a
						10/1/14		529.75	Static	2568.17	Sierrita
						10/1/14	528.58		Static		BW, 2015a
						11/4/14		595.40	Dynamic	2502.52	Sierrita
						11/4/14	594.23		Dynamic		BW, 2015a
						12/2/14		602.10	Dynamic	2495.82	Sierrita
						12/2/14	600.93		Dynamic		BW, 2015a
						1/4/15		608.90	Dynamic	2489.02	Sierrita
						3/3/15		622.65	Dynamic	2475.27	Sierrita
						4/9/15		661.30	Dynamic	2436.62	Sierrita
						5/2/15		668.25	Dynamic	2429.67	Sierrita
						6/11/15		541.42	Static	2556.50	Sierrita
						7/6/15		541.73	Static	2556.19	Sierrita
						8/18/15		696.60	Dynamic	2401.32	Sierrita
						10/7/15		694.80	Dynamic	2403.12	Sierrita
						11/4/15		697.00	Dynamic	2400.92	Sierrita
						12/9/15		698.85	Dynamic	2399.07	Sierrita
						1/12/16		UTM	Dynamic	NA	Sierrita
						4/8/16		693.95	Dynamic	2403.97	Sierrita
FFS-5	221666	Sierrita	3526692.605	498345.757	3107.73	1/28/13	522.49		Static		BW, 2015a
						1/28/13	555.55		Dynamic		BW, 2015a
						3/13/14		Obstructed		NA	Sierrita
						5/13/14		554.32	Dynamic	2553.41	Sierrita
						5/15/14		554.32	Dynamic	2553.41	Sierrita
						5/15/14	554.32		Dynamic		BW, 2015a
						5/22/14		563.67	Dynamic	2544.06	Sierrita
						5/22/14	563.67		Dynamic		BW, 2015a
						6/9/14		565.20	Dynamic	2542.53	Sierrita
						6/9/14	565.20		Dynamic		BW, 2015a
						7/6/14		566.80	Dynamic	2540.93	Sierrita
						7/6/14	565.80		Dynamic		BW, 2015a
						7/31/14		568.60	Dynamic	2539.13	Sierrita
						7/31/14	568.60		Dynamic		BW, 2015a
						8/27/14		569.80	Dynamic	2537.93	Sierrita
						8/27/14	569.80		Dynamic		BW, 2015a
						10/1/14		554.18	Static	2553.55	Sierrita
						10/1/14	553.18		Static		BW, 2015a
						11/4/14		575.55	Dynamic	2532.18	Sierrita
						11/4/14	574.55		Dynamic		BW, 2015a
						12/2/14		577.65	Dynamic	2530.08	Sierrita
						12/2/14	576.65		Dynamic		BW, 2015a
						1/4/15		579.20	Dynamic	2528.53	Sierrita
						3/3/15		581.00	Dynamic	2526.73	Sierrita
						4/9/15		582.55	Dynamic	2525.18	Sierrita
						5/2/15		584.00	Dynamic	2523.73	Sierrita
						6/11/15		567.15	Static	2540.58	Sierrita
						7/6/15		566.90	Static	2540.83	Sierrita
						8/18/15		588.00	Dynamic	2519.73	Sierrita
						10/7/15		589.35	Dynamic	2518.38	Sierrita
						11/4/15		590.10	Dynamic	2517.63	Sierrita
						12/9/15		591.40	Dynamic	2516.33	Sierrita
						1/12/16		591.58	Dynamic	2516.15	Sierrita
						4/8/16		594.05	Dynamic	2513.68	Sierrita

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-6	221667	Sierrita	3527286.712	498329.774	3110.44	12/17/12	535.30		Static		BW, 2015a
						12/17/12	549.40		Dynamic		BW, 2015a
						1/15/14		539.28	Dynamic	2571.16	Sierrita
						1/15/14	550.79		Dynamic		BW, 2015a
						1/22/14		552.04	Dynamic	2558.40	Sierrita
						1/22/14	552.04		Dynamic		BW, 2015a
						1/28/14	547.78		Dynamic		BW, 2015a
						1/29/14		547.78	Dynamic	2562.66	Sierrita
						2/5/14	554.68		Dynamic		BW, 2015a
						3/12/14		559.21	Dynamic	2551.23	Sierrita
						5/13/14		566.06	Dynamic	2544.38	Sierrita
						5/30/14	566.06		Dynamic		BW, 2015a
						6/9/14		567.10	Dynamic	2543.34	Sierrita
						6/9/14	567.10		Dynamic		BW, 2015a
						7/6/14		569.00	Dynamic	2541.44	Sierrita
						7/6/14	568.04		Dynamic		BW, 2015a
						7/31/14		571.10	Dynamic	2539.34	Sierrita
						7/31/14	571.10		Dynamic		BW, 2015a
						8/27/14		572.90	Dynamic	2537.54	Sierrita
						8/27/14	572.90		Dynamic		BW, 2015a
						10/1/14		564.20	Static	2546.24	Sierrita
						10/1/14	563.24		Static		BW, 2015a
						11/4/14		577.80	Dynamic	2532.64	Sierrita
						11/4/14	576.84		Dynamic		BW, 2015a
						12/2/14	578.62		Dynamic		BW, 2015a
						1/4/15		581.40	Dynamic	2529.04	Sierrita
						2/4/15		582.15	Dynamic	2528.29	Sierrita
						3/3/15		583.40	Dynamic	2527.04	Sierrita
						4/9/15		584.75	Dynamic	2525.69	Sierrita
						5/2/15		585.70	Dynamic	2524.74	Sierrita
						7/6/15		587.75	Dynamic	2522.69	Sierrita
						8/18/15		588.94	Dynamic	2521.50	Sierrita
						10/7/15		590.60	Dynamic	2519.84	Sierrita
						11/4/15		588.95	Dynamic	2521.49	Sierrita
						12/9/15		592.80	Dynamic	2517.64	Sierrita
						1/12/16		593.30	Dynamic	2517.14	Sierrita
						4/8/16		596.10	Dynamic	2514.34	Sierrita
FICO C-4	624010	Sierrita	3525383.746	501759.635	2836.19	6/19/15		262.70	Dynamic	2573.49	Sierrita
						11/24/15		UTM	Static	NA	
						4/28/16		235.80	Static	2600.39	Sierrita
FICO E-6	624013	Sierrita	3525168.902	502425.070	2841.16	6/19/15		259.31	Dynamic	2581.85	Sierrita
						11/24/15		232.65	Static	2608.51	
						4/28/16		260.00	Dynamic	2581.16	Sierrita
GV-01-GVDWID	603428	GVDWID	3522254.157	499812.869	2942.35	1/9/07		221.00		2721.35	Sierrita
						4/10/07		218.11		2724.24	
						8/6/07		231.00		2711.35	
						1/7/08		221.50		2720.85	
						4/16/08		225.50		2716.85	
						7/7/08		231.00		2711.35	
						11/25/08		228.00		2714.35	
						3/3/09		220.50		2721.85	
						7/29/09		201.9		2740.45	
						11/4/09		232.80		2709.55	
						1/27/10		224.80		2717.55	
						4/1/10		227.12		2715.23	
						10/14/10		233.00		2709.35	
						3/18/11		224.00		2718.35	
						4/28/11		231.00		2711.35	
						12/7/11		233.20		2709.15	
						3/14/12		234.25		2708.10	
						6/7/12		242.28		2700.07	
						8/29/12		231.00		2711.35	
						11/15/12		239.00		2703.35	
						1/29/13		238.61		2703.74	
						5/16/13		254.09		2688.26	
						7/11/13		248.19		2694.16	
						7/21/14		229.00		2713.35	
						10/14/14		257.60	Static	2684.75	
						1/12/15		255.60	Static[2]	2686.75	
						7/22/15		261.03	Static[2]	2681.32	
						10/21/15		354.60	Dynamic	2587.75	
						1/19/16		257.60	Static[2]	2684.75	Sierrita
						4/20/16		260.50	Static[2]	2681.85	Sierrita
						8/24/16		352.10	Dynamic	2590.25	Sierrita

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GV-01-PCWW	509603	Pima County	3529924.983	502867.776	2780	4/2/15		176.50	Static	2603.50	Sierrita
						10/20/15		176.70	Static	2603.30	
						4/21/16		176.60	Static	2603.40	Sierrita
GV-02-GVDWID	603429	GVDWID	3521654.457	499786.207	2930.47	1/9/07		185.30		2745.17	Sierrita
						4/10/07		187.10		2743.37	
						7/11/07		200.45		2730.02	
						10/3/07		199.33		2731.14	
						1/7/08		190.62		2739.85	
						4/16/08		194.95		2735.52	
						7/7/08		201.05		2729.42	
						11/25/08		199.58		2730.89	
						2/4/09		192.88		2737.59	
						7/29/09		231.9		2698.57	
						11/4/09		203.50		2726.97	
						1/27/10		195.15		2735.32	
						4/1/10		197.10		2733.37	
						7/28/10		202.76		2727.71	
						10/14/10		204.55		2725.92	
						1/20/11		198.88		2731.59	
						4/28/11		204.77		2725.70	
						7/20/11		206.14		2724.33	
						12/7/11		204.43		2726.04	
						3/14/12		204.35		2726.12	
						6/7/12		211.76		2718.71	
						8/29/12		219.00		2711.47	
						11/15/12		214.51		2715.96	
						1/29/13		209.49		2720.98	
						5/16/13		219.48		2710.99	
						7/11/13		220.75		2709.72	
						1/10/14		221.29		2709.18	
						10/14/14		229.70	Static	2700.77	
						1/12/15		221.90	Static[2]	2708.57	
						4/15/15		223.10	Static[2]	2707.37	
						10/21/15		229.80	Static[2]	2700.67	
						1/19/16		UTM	Static[2]	NA	Sierrita
						4/20/16		233.00	Static[2]	2697.47	Sierrita
						8/24/16		246.00	Static	2684.47	Sierrita
GV-02-PCWW	509604	Pima County	3530219.769	502678.593	2780	4/2/15		164.30	Static	2615.70	Sierrita
						10/20/15		164.20	Static	2615.80	
						4/21/16		164.10	Static	2615.90	Sierrita
GV-SI-GVDWID	208825	HGC	3519509.930	497227.175	3042.65	01/09/07		237.50		2805.15	Sierrita
						04/10/07		238.55		2804.10	
						08/06/07		240.31		2802.34	
						10/03/07		244.40		2798.25	
						01/07/08		237.75		2804.90	
						04/16/08		247.55		2795.10	
						8/14/08		245.50		2797.15	
						11/6/08		246.00		2796.65	
						2/4/09		247.46		2795.19	
						4/1/10		247.60		2795.05	
						4/28/11		257.00		2785.65	
						6/20/12		257.92		2784.73	
						5/16/13		267.53		2775.12	
						4/15/15		274.38		2768.27	
						10/21/15		269.46		2773.19	
						4/20/16		277.00		2765.65	Sierrita
HAVEN GOLF	515867	ADWR	3526386.000	501651.000	ND	5/29/12		220.00		NA	Sierrita
I-10	608525	Sierrita	325607.430	977264.441	3210.58	1/15/07		655.89		2554.69	Sierrita
						4/16/07		630.00		2580.58	
						7/10/07		656.00		2554.58	
						1/8/08		659.58		2551.00	
						4/14/08		658.80		2551.78	
						7/21/08		657.10		2553.48	
						10/24/08		660.82		2549.76	
						5/12/09		660.80		2549.78	
						6/15/12		662.39		2548.19	
						6/11/13		661.26		2549.32	
						4/30/14		668.91	Dynamic	2541.67	
						9/11/14		670.20		2540.38	
						5/14/15		687.57	Static	2523.01	
						11/18/15		695.41	Static	2515.17	
						6/23/16		699.03	Static	2511.55	Sierrita

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IW-1	623129	Sierrita	3521277.779	496905.892	3144.69	1/14/06	379.80		Dynamic		BW, 2015a
						2/20/06	380.29		Dynamic		BW, 2015a
						3/14/06	379.27		Dynamic		BW, 2015a
						4/15/06	379.95		Dynamic		BW, 2015a
						5/14/06	383.00		Dynamic		BW, 2015a
						6/10/06	383.60		Dynamic		BW, 2015a
						7/16/06	382.53		Dynamic		BW, 2015a
						8/13/06	383.30		Dynamic		BW, 2015a
						9/16/06	382.20		Dynamic		BW, 2015a
						10/21/06	381.32		Dynamic		BW, 2015a
						11/11/06	383.80		Dynamic		BW, 2015a
						12/16/06		360.95		2783.74	Sierrita
						12/16/06	360.95		Static		BW, 2015a
						1/25/07	385.10		Dynamic		BW, 2015a
						2/24/07		386.70		2757.99	Sierrita
						2/24/07	386.70		Dynamic		BW, 2015a
						3/17/07	388.20		Dynamic		BW, 2015a
						4/24/07	390.55		Dynamic		BW, 2015a
						5/30/07	391.70		Dynamic		BW, 2015a
						6/26/07	394.05		Dynamic		BW, 2015a
						8/29/07	402.50		Dynamic		BW, 2015a
						10/19/07		399.90		2744.79	Sierrita
						11/29/07	402.45		Dynamic		BW, 2015a
						1/29/08		400.45		2744.24	Sierrita
						1/29/08	400.45		Dynamic		BW, 2015a
						2/29/08	400.25		Dynamic		BW, 2015a
						3/31/08	398.00		Dynamic		BW, 2015a
						5/7/08		398.90		2745.79	Sierrita
						5/27/08	402.00		Dynamic		BW, 2015a
						6/30/08	405.35		Dynamic		BW, 2015a
						7/29/08		405.85		2738.84	Sierrita
						7/29/08	405.85		Dynamic		BW, 2015a
						8/29/08	404.00		Dynamic		BW, 2015a
						9/29/08	404.44		Dynamic		BW, 2015a
						10/24/08		404.80		2739.89	Sierrita
						10/24/08	404.08		Dynamic		BW, 2015a
						1/21/09		400		2744.69	Sierrita
						3/10/09	370.50		Static		BW, 2015a
						5/13/09		370.50		2774.19	Sierrita
						5/13/09	397.50		Dynamic		BW, 2015a
						12/15/09	396.40		Dynamic		BW, 2015a
						4/12/10		394.45		2750.24	Sierrita
						3/9/11	370.98		Static		BW, 2015a
						4/15/11	370.92		Static		BW, 2015a
						5/11/11		392.80		2751.89	Sierrita
						5/11/11	392.90		Dynamic		BW, 2015a
						6/27/11	391.25		Dynamic		BW, 2015a
						7/12/11	372.75		Static		BW, 2015a
						8/23/11	369.54		Static		BW, 2015a
						12/29/11	439.80		Dynamic		BW, 2015a
						1/26/12	440.54		Dynamic		BW, 2015a
						2/28/12	369.94		Static		BW, 2015a
						3/30/12	438.73		Dynamic		BW, 2015a
						5/21/12		438.48		2706.21	Sierrita
						5/21/12	438.48		Dynamic		BW, 2015a
						6/27/12	380.00		Static		BW, 2015a
						7/31/12	431.11		Dynamic		BW, 2015a
						8/21/12	379.84		Static		BW, 2015a
						9/28/12	442.81		Dynamic		BW, 2015a
						10/25/12	382.39		Static		BW, 2015a
						11/28/12	442.71		Dynamic		BW, 2015a
						4/15/13		439.81	Dynamic	2704.88	Sierrita
						6/24/13	384.67		Static		BW, 2015a
						7/31/13	443.70		Dynamic		BW, 2015a
						8/1/13	384.56		Static		BW, 2015a
						9/30/13	444.16		Dynamic		BW, 2015a
						10/31/13	391.01		Static		BW, 2015a
						11/28/13	472.29		Dynamic		BW, 2015a
						12/9/13	391.38		Static		BW, 2015a
						1/28/14		461.65	Dynamic	2683.04	Sierrita
						1/28/14	461.65		Dynamic		BW, 2015a
						2/24/14		392.49	Dynamic	2752.20	Sierrita
						2/24/14	392.49		Static		BW, 2015a
						3/25/14		393.89	Dynamic	2750.80	Sierrita

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IW-1	623129	Sierrita	3521277.779	496905.892	3144.69	3/31/14	393.89		Static		BW, 2015a
						4/25/14		Obstructed		NA	Sierrita
						5/30/14		Obstructed		NA	Sierrita
						6/5/14		445.60	Dynamic	2699.09	Sierrita
						6/5/14	445.60		Dynamic		BW, 2015a
						7/6/14		387.90	Dynamic	2756.79	Sierrita
						7/6/14	387.19		Static		BW, 2015a
						7/31/14		441.90	Dynamic	2702.79	Sierrita
						7/31/14	441.90		Dynamic		BW, 2015a
						8/27/14		383.00	Dynamic	2761.69	Sierrita
						8/27/14	383.00		Static		BW, 2015a
						10/1/14		445.50	Dynamic	2699.19	Sierrita
						10/1/14	444.79		Dynamic		BW, 2015a
						11/4/14		443.90	Dynamic	2700.79	Sierrita
						11/4/14	443.19		Dynamic		BW, 2015a
						12/2/14		446.60	Dynamic	2698.09	Sierrita
						12/2/14	445.89		Dynamic		BW, 2015a
						4/9/15		443.90	Dynamic	2700.79	Sierrita
						5/2/15		382.95	Static	2761.74	Sierrita
						6/11/15		442.50	Dynamic	2702.19	Sierrita
						7/8/15		442.15	Dynamic	2702.54	Sierrita
						10/7/15		444.25	Dynamic	2700.44	Sierrita
						11/4/15		444.15	Dynamic	2700.54	Sierrita
						12/9/15		391.10	Static	2753.59	Sierrita
						1/12/16		449.05	Dynamic	2695.64	Sierrita
						4/29/16		441.70	Dynamic	2702.99	Sierrita
IW-2	623130	Sierrita	497546.637	497546.637	3098.29	12/16/06		404.30		2693.99	Sierrita
						2/24/07		406.80		2691.49	
						5/4/07		344.00		2754.29	
						7/31/07		381.00		2717.29	
IW-2A	216464	Sierrita	3521337.953	497469.228	3112.28	2/5/08	351.52		Static		BW, 2015a
						2/5/08	392.32		Dynamic		BW, 2015a
						3/31/08	412.80		Dynamic		BW, 2015a
						4/25/08		412.90		2699.38	Sierrita
						4/30/08	412.90		Dynamic		BW, 2015a
						3/10/09	358.20		Static		BW, 2015a
						5/13/09		358.80		2753.48	Sierrita
						4/12/10		410.18		2702.10	Sierrita
						3/9/11	396.82		Dynamic		BW, 2015a
						4/15/11	358.88		Static		BW, 2015a
						5/11/11		394.91		2717.37	Sierrita
						5/11/11	394.91		Dynamic		BW, 2015a
						6/27/11	395.50		Dynamic		BW, 2015a
						7/12/11	361.00		Static		BW, 2015a
						8/23/11	398.38		Dynamic		BW, 2015a
						12/29/11	404.13		Dynamic		BW, 2015a
						1/26/12	404.22		Dynamic		BW, 2015a
						2/28/12	365.63		Static		BW, 2015a
						5/21/12		404.32		2707.96	Sierrita
						5/21/12	404.32		Dynamic		BW, 2015a
						8/21/12	369.52		Static		BW, 2015a
						9/28/12	417.08		Dynamic		BW, 2015a
						10/25/12	374.18		Static		BW, 2015a
						11/28/12	423.40		Dynamic		BW, 2015a
						4/15/13		370.91	Dynamic	2741.37	Sierrita
						6/24/13	376.98		Static		BW, 2015a
						7/31/13	424.16		Dynamic		BW, 2015a
						8/1/13	376.86		Static		BW, 2015a
						9/30/13	424.21		Dynamic		BW, 2015a
						10/31/13	383.28		Static		BW, 2015a
						11/28/13	425.78		Dynamic		BW, 2015a
						12/9/13	382.12		Static		BW, 2015a
						1/28/14		439.64	Dynamic	2672.64	Sierrita
						1/28/14	439.64		Dynamic		BW, 2015a
						2/24/14		384.22	Dynamic	2728.06	Sierrita
						2/24/14	384.22		Static		BW, 2015a
						3/25/14		440.29	Dynamic	2671.99	Sierrita
						3/31/14	440.29		Dynamic		BW, 2015a
						4/25/14		384.28	Dynamic	2728.00	Sierrita
						5/30/14		440.37	Dynamic	2671.91	Sierrita
						5/30/14	440.37		Dynamic		BW, 2015a
						6/9/14		429.35	Dynamic	2682.93	Sierrita
						6/9/14	429.35		Dynamic		BW, 2015a
						7/6/14		379.90	Dynamic	2732.38	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-2A	216464	Sierrita	3521337.953	497469.228	3112.28	7/6/14	379.44		Static		BW, 2015a
						7/31/14		423.50	Dynamic	2688.78	Sierrita
						7/31/14	423.50		Dynamic		BW, 2015a
						8/27/14		377.70	Dynamic	2734.58	Sierrita
						8/27/14	377.70		Static		BW, 2015a
						10/1/14		377.60	Dynamic	2734.68	Sierrita
						10/1/14	377.14		Static		BW, 2015a
						11/4/14		420.10	Dynamic	2692.18	Sierrita
						11/4/14	419.64		Dynamic		BW, 2015a
						12/2/14		422.20	Dynamic	2690.08	Sierrita
						4/9/15		412.00	Dynamic	2700.28	Sierrita
						5/2/15		413.80	Dynamic	2698.48	Sierrita
						6/11/15		410.00	Dynamic	2702.28	Sierrita
						7/8/15		412.50	Dynamic	2699.78	Sierrita
						10/7/15		411.90	Dynamic	2700.38	Sierrita
						11/4/15		408.90	Dynamic	2703.38	Sierrita
						12/9/15		380.90	Static	2731.38	Sierrita
						1/12/16		408.50	Dynamic	2703.78	Sierrita
						4/29/16		397.20	Dynamic	2715.08	Sierrita
IW-3A	201732	Sierrita	3521722.640	497366.220	3121.45	1/14/06	410.83		Dynamic		BW, 2015a
						2/20/06	408.25		Dynamic		BW, 2015a
						3/14/06	410.00		Dynamic		BW, 2015a
						4/15/06	401.60		Dynamic		BW, 2015a
						5/14/06	391.75		Dynamic		BW, 2015a
						6/10/06	385.50		Dynamic		BW, 2015a
						7/16/06	379.42		Dynamic		BW, 2015a
						8/13/06	369.11		Dynamic		BW, 2015a
						10/21/06	432.25		Dynamic		BW, 2015a
						11/11/06	431.80		Dynamic		BW, 2015a
						12/5/06		431.80		2689.65	Sierrita
						1/25/07	431.00		Dynamic		BW, 2015a
						2/24/07	440.00		Dynamic		BW, 2015a
						3/17/07	440.60		Dynamic		BW, 2015a
						4/24/07	439.30		Dynamic		BW, 2015a
						5/30/07	436.22		Dynamic		BW, 2015a
						6/26/07	436.00		Dynamic		BW, 2015a
						7/31/07		381.50		2739.95	Sierrita
						8/29/07	430.20		Dynamic		BW, 2015a
						10/19/07		427.80		2693.65	Sierrita
						11/29/07	427.40		Dynamic		BW, 2015a
						1/29/08		425.60		2695.85	Sierrita
						1/29/08	425.60		Dynamic		BW, 2015a
						2/29/08	423.80		Dynamic		BW, 2015a
						4/25/08		421.30		2700.15	Sierrita
						4/30/08	421.30		Dynamic		BW, 2015a
						6/30/08	425.20		Dynamic		BW, 2015a
						7/29/08		420.90		2700.55	Sierrita
						7/29/08	420.90		Dynamic		BW, 2015a
						8/29/08	413.90		Dynamic		BW, 2015a
						9/29/08	414.22		Dynamic		BW, 2015a
						10/24/08		141.50		2979.95	Sierrita
						10/24/08	414.50		Dynamic		BW, 2015a
						5/13/09	413.30		Dynamic		BW, 2015a
						12/15/09	410.00		Dynamic		BW, 2015a
						4/12/10		420.23		2701.22	Sierrita
						3/9/11	402.95		Dynamic		BW, 2015a
						4/15/11	378.58		Static		BW, 2015a
						5/11/11		413.40		2708.05	Sierrita
						5/11/11	413.40		Dynamic		BW, 2015a
						6/27/11	415.70		Dynamic		BW, 2015a
						7/12/11	377.59		Static		BW, 2015a
						8/23/11	416.08		Dynamic		BW, 2015a
						12/29/11	419.50		Dynamic		BW, 2015a
						1/26/12	419.34		Dynamic		BW, 2015a
						2/28/12	381.70		Static		BW, 2015a
						3/30/12	409.57		Dynamic		BW, 2015a
						6/20/12		401.37		2720.08	Sierrita
						6/27/12	383.95		Static		BW, 2015a
						7/31/12	429.81		Dynamic		BW, 2015a
						8/21/12	388.48		Static		BW, 2015a
						9/28/12	449.48		Dynamic		BW, 2015a
						10/25/12	394.88		Static		BW, 2015a
						11/28/12	450.08		Dynamic		BW, 2015a
						5/14/13		449.56	Dynamic	2671.89	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-3A	201732	Sierrita	3521722.640	497366.220	3121.45	6/24/13	398.14		Static		BW, 2015a
						7/31/13	451.92		Dynamic		BW, 2015a
						8/1/13	397.74		Static		BW, 2015a
						9/30/13	452.32		Dynamic		BW, 2015a
						10/30/13	410.79		Static		BW, 2015a
						11/28/13	453.60		Dynamic		BW, 2015a
						12/9/13	409.38		Static		BW, 2015a
						1/28/14		455.66	Dynamic	2665.79	Sierrita
						1/28/14	455.66		Dynamic		BW, 2015a
						2/24/14		408.59	Static	2712.86	Sierrita
						2/24/14	408.59		Static		BW, 2015a
						3/25/14		454.96	Dynamic	2666.49	Sierrita
						3/31/14	454.96		Dynamic		BW, 2015a
						4/25/14		403.99	Dynamic	2717.46	Sierrita
						5/30/14		454.72	Dynamic	2666.73	Sierrita
						5/30/14	454.72		Dynamic		BW, 2015a
						6/9/14		446.10	Dynamic	2675.35	Sierrita
						6/9/14	446.10		Dynamic		BW, 2015a
						7/6/14		398.60	Static	2722.85	Sierrita
						7/6/14	397.89		Static		BW, 2015a
						7/31/14		441.40	Dynamic	2680.05	Sierrita
						7/31/14	441.40		Dynamic		BW, 2015a
						8/27/14		394.90	Static	2726.55	Sierrita
						8/27/14	394.90		Static		BW, 2015a
						10/1/14		451.05	Dynamic	2670.40	Sierrita
						10/1/14	450.34		Dynamic		BW, 2015a
						11/4/14		442.75	Dynamic	2678.70	Sierrita
						11/4/14	442.04		Dynamic		BW, 2015a
						12/2/14		446.10	Dynamic	2675.35	Sierrita
						4/9/15		440.60	Dynamic	2680.85	Sierrita
						5/2/15		444.80	Dynamic	2676.65	Sierrita
						6/11/15		441.00	Dynamic	2680.45	Sierrita
						7/8/15		444.20	Dynamic	2677.25	Sierrita
						10/7/15		444.65	Dynamic	2676.80	Sierrita
						11/4/15		442.65	Dynamic	2678.80	Sierrita
						12/9/15		402.55	Static	2718.90	Sierrita
						1/12/16		435.90	Dynamic	2685.55	Sierrita
						4/29/16		372.45	Static	2749.00	Sierrita
IW-4	623132	Sierrita	3522465.879	497371.700	3137.06	1/14/06	495.10		Dynamic		BW, 2015a
						2/20/06	419.27		Dynamic		BW, 2015a
						3/14/06	385.75		Static		BW, 2015a
						4/15/06	424.75		Dynamic		BW, 2015a
						5/14/06	419.70		Dynamic		BW, 2015a
						6/10/06	420.36		Dynamic		BW, 2015a
						7/16/06	422.05		Dynamic		BW, 2015a
						8/13/06	420.30		Dynamic		BW, 2015a
						9/16/06	417.30		Dynamic		BW, 2015a
						10/21/06	415.75		Dynamic		BW, 2015a
						11/10/06	417.25		Dynamic		BW, 2015a
						12/16/06	416.20		Dynamic		BW, 2015a
						1/17/07	379.65		Static		BW, 2015a
						2/24/07		417.70		2719.36	Sierrita
						2/24/07	417.70		Dynamic		BW, 2015a
						3/19/07	417.80		Dynamic		BW, 2015a
						4/24/07	422.50		Dynamic		BW, 2015a
						5/29/07	423.55		Dynamic		BW, 2015a
						6/26/07	424.30		Dynamic		BW, 2015a
						7/21/07		425.30		2711.76	Sierrita
						7/21/07	425.30		Dynamic		BW, 2015a
						8/29/07	427.50		Dynamic		BW, 2015a
						10/19/07		428.90		2708.16	Sierrita
						11/28/07	434.05		Dynamic		BW, 2015a
						1/19/08		433.70		2703.36	Sierrita
						1/29/08	433.70		Dynamic		BW, 2015a
						2/29/08	437.50		Dynamic		BW, 2015a
						4/21/08		441.90		2695.16	Sierrita
						4/30/08	441.90		Dynamic		BW, 2015a
						7/29/08		409.22		2727.84	Sierrita
						7/29/08	409.22		Dynamic		BW, 2015a
						8/29/08	448.50		Dynamic		BW, 2015a
						9/29/08	449.75		Dynamic		BW, 2015a
						10/24/08		452.10		2684.96	Sierrita
						10/24/08	452.10		Dynamic		BW, 2015a
						1/21/09		453		2684.06	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-4	623132	Sierrita	3522465.879	497371.700	3137.06	3/10/09	383.20		Static		BW, 2015a
						5/13/09		383.20		2753.86	Sierrita
						5/13/09	455.50		Dynamic		BW, 2015a
						10/21/09	421.50				BW, 2015a
						12/15/09	419.00		Dynamic		BW, 2015a
						4/12/10		420.70		2716.36	Sierrita
						3/10/11	426.33		Dynamic		BW, 2015a
						4/15/11	377.11		Static		BW, 2015a
						5/11/11		414.25		2722.81	Sierrita
						5/11/11	414.25		Dynamic		BW, 2015a
						6/27/11	409.23		Dynamic		BW, 2015a
						7/12/11	379.00		Static		BW, 2015a
						8/23/11	406.05		Dynamic		BW, 2015a
						12/29/11	407.19		Dynamic		BW, 2015a
						1/26/12	409.42		Dynamic		BW, 2015a
						2/28/12	381.88		Static		BW, 2015a
						3/30/12	408.98		Dynamic		BW, 2015a
						5/21/12		402.19		2734.87	Sierrita
						5/21/12	402.19		Dynamic		BW, 2015a
						6/27/12	386.94		Static		BW, 2015a
						8/21/12	388.60		Static		BW, 2015a
						9/28/12	403.20		Dynamic		BW, 2015a
						10/25/12	388.42		Static		BW, 2015a
						11/28/12	408.98		Dynamic		BW, 2015a
						4/15/13		402.34	Dynamic	2734.72	Sierrita
						6/24/13	390.86		Static		BW, 2015a
						7/31/13	411.10		Dynamic		BW, 2015a
						8/1/13	390.61		Static		BW, 2015a
						9/30/13	410.90		Dynamic		BW, 2015a
						10/30/13	394.62		Static		BW, 2015a
						11/28/13	414.08		Dynamic		BW, 2015a
						12/9/13	393.74		Static		BW, 2015a
						1/28/14		410.69	Dynamic	2726.37	Sierrita
						1/28/14	410.69		Dynamic		BW, 2015a
						2/24/14		393.32	Static	2743.74	Sierrita
						2/24/14	393.32		Static		BW, 2015a
						3/25/14		410.27	Dynamic	2726.79	Sierrita
						3/31/14	410.27		Dynamic		BW, 2015a
						4/25/14		390.98	Dynamic	2746.08	Sierrita
						5/30/14		410.30	Dynamic	2726.76	Sierrita
						5/30/14	410.30		Dynamic		BW, 2015a
						6/9/14		408.10	Dynamic	2728.96	Sierrita
						6/9/14	408.10		Dynamic		BW, 2015a
						7/6/14		388.15	Static	2748.91	Sierrita
						7/6/14	387.44		Static		BW, 2015a
						7/31/14		427.20	Dynamic	2709.86	Sierrita
						7/31/14	427.20		Dynamic		BW, 2015a
						8/27/14		388.20	Static	2748.86	Sierrita
						8/27/14	388.20		Static		BW, 2015a
						10/1/14		Insufficient Flow		NA	Sierrita
						11/4/14		426.05	Dynamic	2711.01	Sierrita
						11/4/14	425.34		Dynamic		BW, 2015a
						12/2/14		424.10	Dynamic	2712.96	Sierrita
						4/9/15		385.05	Static	2752.01	Sierrita
						5/2/15		388.90	Static	2748.16	Sierrita
						6/11/15		422.10	Dynamic	2714.96	Sierrita
						7/8/15		390.88	Static	2746.18	Sierrita
						10/7/15		UTM	Dynamic	NA	Sierrita
						11/4/15		392.20	Static	2744.86	Sierrita
						12/9/15		391.00	Static	2746.06	Sierrita
						1/12/16		430.30	Dynamic	2706.76	Sierrita
						4/29/16		380.50	Static	2756.56	Sierrita
IW-5	623133	Sierrita	3522814.850	497369.528	3137.65	5/13/09		375.90		2761.75	Sierrita
						4/12/10		430.60		2707.05	

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-5A	219131	Sierrita	No Survey Data	No Survey Data	3091.47	8/18/10	413.90		Dynamic		BW, 2015a
						8/18/10	377.50		Static		BW, 2015a
						4/15/11	377.25		Static		BW, 2015a
						6/27/11	416.52		Dynamic		BW, 2015a
						7/12/11	379.31		Static		BW, 2015a
						8/23/11	383.44		Dynamic		BW, 2015a
						12/29/11	421.55		Dynamic		BW, 2015a
						1/26/12	421.04		Dynamic		BW, 2015a
						2/28/12	380.65		Static		BW, 2015a
						3/29/12	426.14		Dynamic		BW, 2015a
						5/22/12		468.65		2622.82	Sierrita
						5/22/12	468.65		Dynamic		BW, 2015a
						7/31/12	452.38		Dynamic		BW, 2015a
						8/21/12	388.09		Static		BW, 2015a
						10/25/12	389.56		Static		BW, 2015a
						11/27/12	512.20		Dynamic		BW, 2015a
						4/15/13		514.20	Dynamic	2577.27	Sierrita
						6/24/13	388.89		Static		BW, 2015a
						7/31/13	514.18		Dynamic		BW, 2015a
						8/1/13	388.64		Static		BW, 2015a
						9/30/13	514.02		Dynamic		BW, 2015a
						10/30/13	392.27		Static		BW, 2015a
						11/28/13	516.11		Dynamic		BW, 2015a
						12/9/13	390.72		Static		BW, 2015a
						1/28/14	531.51		Dynamic		BW, 2015a
						1/29/14		531.51	Dynamic	2559.96	Sierrita
						2/24/14		390.02	Static	2701.45	Sierrita
						2/24/14	390.02		Static		BW, 2015a
						3/24/14		Obstructed			Sierrita
						4/25/14		389.58	Dynamic	2701.89	Sierrita
						5/30/14		511.90	Dynamic	2579.57	Sierrita
						5/30/14	511.90		Dynamic		BW, 2015a
						6/9/14		621.00	Dynamic	2470.47	Sierrita
						6/9/14	621.00		Dynamic		BW, 2015a
						7/6/14		387.80	Static	2703.67	Sierrita
						7/6/14	387.30		Static		BW, 2015a
						7/31/14		387.30	Static	2704.17	Sierrita
						7/31/14	387.30		Static		BW, 2015a
						8/27/14		386.30	Static	2705.17	Sierrita
						8/27/14	386.30		Static		BW, 2015a
						10/1/14		386.75	Static	2704.72	Sierrita
						10/1/14	386.25		Static		BW, 2015a
						11/4/14		389.10	Static	2702.37	Sierrita
						11/4/14	388.60		Static		BW, 2015a
						12/2/14		389.80	Static	2701.67	Sierrita
						4/9/15		388.75	Static	2702.72	Sierrita
						5/2/15		390.00	Static	2701.47	Sierrita
						6/11/15		390.05	Static	2701.42	Sierrita
						7/8/15		391.80	Static	2699.67	Sierrita
						10/7/15		392.05	Static	2699.42	Sierrita
						11/4/15		391.20	Static	2700.27	Sierrita
						12/9/15		392.80	Static	2698.67	Sierrita
						1/12/16		392.65	Static	2698.82	Sierrita
						4/29/16		386.30	Static	2705.17	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-6A	545565	Sierrita	3523708.756	497381.226	3132.26	1/14/06	415.90		Dynamic		BW, 2015a
						2/20/06	409.20		Dynamic		BW, 2015a
						3/14/06	424.68		Dynamic		BW, 2015a
						4/15/06	422.90		Dynamic		BW, 2015a
						5/14/06	410.09		Dynamic		BW, 2015a
						6/10/06	407.04		Dynamic		BW, 2015a
						7/16/06	412.00		Dynamic		BW, 2015a
						8/13/06	412.98		Dynamic		BW, 2015a
						9/16/06	413.80		Dynamic		BW, 2015a
						10/20/06	438.70		Dynamic		BW, 2015a
						11/11/06	425.00		Dynamic		BW, 2015a
						11/15/06		425.00		2707.26	Sierrita
						12/16/06	433.30		Dynamic		BW, 2015a
						1/29/07	432.60		Dynamic		BW, 2015a
						2/24/07		433.60		2698.66	Sierrita
						2/24/07	433.60		Dynamic		BW, 2015a
						3/17/07	432.90		Dynamic		BW, 2015a
						4/24/07	430.33		Dynamic		BW, 2015a
						5/29/07	433.00		Dynamic		BW, 2015a
						6/22/07	431.75		Dynamic		BW, 2015a
						7/31/07		432.28		2699.98	Sierrita
						8/29/07	433.90		Dynamic		BW, 2015a
						10/17/07		433.35		2698.91	Sierrita
						11/29/07	421.90		Dynamic		BW, 2015a
						1/29/08		416.90		2715.36	Sierrita
						1/29/08	416.90		Dynamic		BW, 2015a
						2/29/08	415.85		Dynamic		BW, 2015a
						4/22/08		415.45		2716.81	Sierrita
						4/30/08	415.45		Dynamic		BW, 2015a
						7/29/08		416.82		2715.44	Sierrita
						7/29/08	416.82		Dynamic		BW, 2015a
						8/29/08	418.65		Dynamic		BW, 2015a
						9/29/08	419.00		Dynamic		BW, 2015a
						10/24/08		419.33		2712.93	Sierrita
						10/24/08	419.33		Dynamic		BW, 2015a
						1/29/09		418		2714.26	Sierrita
						3/10/09	387.30		Static		BW, 2015a
						5/13/09		387.30		2744.96	Sierrita
						5/13/09	417.00		Dynamic		BW, 2015a
						12/15/09	415.20		Dynamic		BW, 2015a
						4/12/10		384.70		2747.56	Sierrita
						3/9/11	408.45		Dynamic		BW, 2015a
						4/15/11	383.52		Static		BW, 2015a
						5/11/11		410.61		2721.65	Sierrita
						5/11/11	410.61		Dynamic		BW, 2015a
						6/29/11	411.24		Dynamic		BW, 2015a
						7/12/11	384.23		Static		BW, 2015a
						8/23/11	411.45		Dynamic		BW, 2015a
						12/29/11	388.75		Static		BW, 2015a
						1/26/12	413.41		Dynamic		BW, 2015a
						5/22/12		419.75		2712.51	Sierrita
						5/22/12	419.75		Dynamic		BW, 2015a
						7/31/12	429.91		Dynamic		BW, 2015a
						9/26/12	435.34		Dynamic		BW, 2015a
						10/25/12	400.84		Static		BW, 2015a
						11/27/12	436.72		Dynamic		BW, 2015a
						4/15/13		433.21	Dynamic	2699.05	Sierrita
						6/24/13	404.24		Static		BW, 2015a
						7/31/13	439.11		Dynamic		BW, 2015a
						8/1/13	404.22		Static		BW, 2015a
						9/30/13	439.14		Dynamic		BW, 2015a
						10/29/13	406.02		Static		BW, 2015a
						11/28/13	440.29		Dynamic		BW, 2015a
						12/9/13	405.19		Static		BW, 2015a
						1/28/14		435.59	Dynamic	2696.67	Sierrita
						1/28/14	435.64		Dynamic		BW, 2015a
						2/24/14		407.02	Static	2725.24	Sierrita
						2/24/14	407.02		Static		BW, 2015a
						3/24/14		432.16	Dynamic	2700.10	Sierrita
						3/31/14	432.16		Dynamic		BW, 2015a
						4/25/14		408.39	Dynamic	2723.87	Sierrita
						5/30/14		431.90	Dynamic	2700.36	Sierrita
						5/30/14	431.90		Dynamic		BW, 2015a
						6/9/14		435.40	Dynamic	2696.86	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-6A	545565	Sierrita	3523708.756	497381.226	3132.26	6/9/14	435.40		Dynamic		BW, 2015a
						7/7/14		435.40	Dynamic	2696.86	Sierrita
						7/7/14	434.98		Dynamic		BW, 2015a
						7/31/14		438.80	Dynamic	2693.46	Sierrita
						7/31/14	438.80		Dynamic		BW, 2015a
						8/27/14		403.40	Static	2728.86	Sierrita
						8/27/14	403.40		Static		BW, 2015a
						10/1/14		435.70	Dynamic	2696.56	Sierrita
						10/1/14	435.28		Dynamic		BW, 2015a
						11/4/14		436.00	Dynamic	2696.26	Sierrita
						11/4/14	435.58		Dynamic		BW, 2015a
						12/2/14		436.00	Dynamic	2696.26	Sierrita
						4/9/15		404.30	Static	2727.96	Sierrita
						5/2/15		403.80	Static	2728.46	Sierrita
						6/11/15		403.80	Static	2728.46	Sierrita
						7/18/15		407.30	Static	2724.96	Sierrita
						10/7/15		UTM	Static	NA	Sierrita
						11/4/15		410.60	Static	2721.66	Sierrita
						12/9/15		413.30	Static	2718.96	Sierrita
						1/12/16		413.80	Static	2718.46	Sierrita
						4/29/16		409.55	Static	2722.71	Sierrita
IW-8	508236	Sierrita	3522020.520	497368.253	3122.19	1/14/06	462.10		Dynamic		BW, 2015a
						2/20/06	456.60		Dynamic		BW, 2015a
						3/14/06	461.30		Dynamic		BW, 2015a
						4/15/06	460.25		Dynamic		BW, 2015a
						5/14/06	460.75		Dynamic		BW, 2015a
						6/10/06	465.50		Dynamic		BW, 2015a
						10/19/06	359.29		Static		BW, 2015a
						10/19/06	386.40		Dynamic		BW, 2015a
						12/16/06	435.88		Dynamic		BW, 2015a
						1/19/07	428.30		Dynamic		BW, 2015a
						2/24/07		434.05		2688.14	Sierrita
						2/24/07	434.05		Dynamic		BW, 2015a
						3/17/07	437.37		Dynamic		BW, 2015a
						4/24/07	444.00		Dynamic		BW, 2015a
						5/30/07	440.60		Dynamic		BW, 2015a
						6/26/07	442.35		Dynamic		BW, 2015a
						7/31/07		438.75		2683.44	Sierrita
						8/29/07	439.00		Dynamic		BW, 2015a
						10/19/07		436.80		2685.39	Sierrita
						11/29/07	435.00		Dynamic		BW, 2015a
						1/29/08		437.25		2684.94	Sierrita
						1/29/08	437.25		Dynamic		BW, 2015a
						2/29/08	436.00		Dynamic		BW, 2015a
						3/31/08	455.00		Dynamic		BW, 2015a
						4/25/08		436.70		2685.49	Sierrita
						4/30/08	436.70		Dynamic		BW, 2015a
						7/29/08		437.00		2685.19	Sierrita
						7/29/08	437.00		Dynamic		BW, 2015a
						8/29/08	436.35		Dynamic		BW, 2015a
						9/29/08	436.50		Dynamic		BW, 2015a
						10/24/08		436.92		2685.27	Sierrita
						10/24/08	436.92		Dynamic		BW, 2015a
						1/21/09		439		2683.19	Sierrita
						3/10/09	377.80		Static		BW, 2015a
						5/13/09		377.80		2744.39	Sierrita
						5/13/09	438.00		Dynamic		BW, 2015a
						12/15/09	436.70		Dynamic		BW, 2015a
						4/12/10		438.36		2683.83	Sierrita
						3/10/11	435.58		Dynamic		BW, 2015a
						4/15/11	374.08		Static		BW, 2015a
						5/11/11		430.52		2691.67	Sierrita
						5/11/11	430.52		Dynamic		BW, 2015a
						6/27/11	432.55		Dynamic		BW, 2015a
						7/12/11	378.15		Static		BW, 2015a
						8/23/11	434.14		Dynamic		BW, 2015a
						12/29/11	435.30		Dynamic		BW, 2015a
						1/26/12	437.51		Dynamic		BW, 2015a
						2/28/12	381.39		Static		BW, 2015a
						3/30/12	437.32		Dynamic		BW, 2015a
						5/21/12		438.67		2683.52	Sierrita
						5/21/12	438.69		Dynamic		BW, 2015a
						6/27/12	386.50		Static		BW, 2015a
						7/31/12	441.33		Dynamic		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-8	508236	Sierrita	3522020.520	497368.253	3122.19	8/21/12	384.85		Static		BW, 2015a
						9/28/12	385.39		Static		BW, 2015a
						10/25/12	385.68		Static		BW, 2015a
						11/28/12	386.97		Static		BW, 2015a
						5/14/13		379.15	Dynamic	2743.04	Sierrita
						6/24/13	388.58		Static		BW, 2015a
						7/31/13	390.25		Static		BW, 2015a
						8/1/13	387.34		Static		BW, 2015a
						9/30/13	391.14		Static		BW, 2015a
						11/28/13	392.23		Static		BW, 2015a
						12/9/13	401.69		Static		BW, 2015a
						1/28/14		466.20	Dynamic	2655.99	Sierrita
						1/28/14	466.20		Dynamic		BW, 2015a
						2/24/14		400.57	Dynamic	2721.62	Sierrita
						2/24/14	400.57		Static		BW, 2015a
						3/25/14		392.79	Dynamic	2729.40	Sierrita
						3/31/14	392.79		Static		BW, 2015a
						4/25/14		Obstructed		NA	Sierrita
						5/30/14		Obstructed		NA	Sierrita
						6/9/14		Obstructed		NA	Sierrita
						7/6/14		391.10	Dynamic	2731.09	Sierrita
						7/6/14	390.60		Static		BW, 2015a
						7/31/14		459.90	Dynamic	2662.29	Sierrita
						7/31/14	459.90		Dynamic		BW, 2015a
						8/27/14		389.20	Static	2732.99	Sierrita
						8/27/14	389.20		Static		BW, 2015a
						10/1/14		452.30	Dynamic	2669.89	Sierrita
						10/1/14	451.80		Dynamic		BW, 2015a
						11/4/14		446.40	Dynamic	2675.79	Sierrita
						11/4/14	445.90		Dynamic		BW, 2015a
						12/2/14		449.00	Dynamic	2673.19	Sierrita
						4/9/15		443.55	Dynamic	2678.64	Sierrita
						5/2/15		446.95	Dynamic	2675.24	Sierrita
						6/11/15		444.60	Dynamic	2677.59	Sierrita
						7/8/15		447.78	Dynamic	2674.41	Sierrita
						10/7/15		443.75	Dynamic	2678.44	Sierrita
						11/4/15		440.60	Dynamic	2681.59	Sierrita
						12/9/15		394.80	Static	2727.39	Sierrita
						1/12/16		446.25	Dynamic	2675.94	Sierrita
						4/29/16		431.90	Dynamic	2690.29	Sierrita
IW-9	508238	Sierrita	3522207.639	497369.791	3102.94	1/14/06	450.73		Dynamic		BW, 2015a
						2/20/06	438.00		Dynamic		BW, 2015a
						3/14/06	465.15		Dynamic		BW, 2015a
						4/15/06	437.70		Dynamic		BW, 2015a
						5/14/06	423.75		Dynamic		BW, 2015a
						6/10/06	425.75		Dynamic		BW, 2015a
						7/16/06	409.70		Dynamic		BW, 2015a
						8/13/06	408.50		Dynamic		BW, 2015a
						9/16/06	403.10		Dynamic		BW, 2015a
						10/21/06	400.40		Dynamic		BW, 2015a
						11/10/06	402.72		Dynamic		BW, 2015a
						11/15/06		402.72		2700.22	Sierrita
						12/16/06	404.00		Dynamic		BW, 2015a
						1/17/07	346.62		Static		BW, 2015a
						2/24/07		405.95		2696.99	Sierrita
						2/24/07	405.95		Dynamic		BW, 2015a
						3/19/07	405.90		Dynamic		BW, 2015a
						4/24/07	408.00		Dynamic		BW, 2015a
						5/29/07	407.60		Dynamic		BW, 2015a
						6/26/07	408.35		Dynamic		BW, 2015a
						7/21/07		405.68		2697.26	Sierrita
						7/21/07	405.68		Dynamic		BW, 2015a
						8/29/07	398.00		Dynamic		BW, 2015a
						10/19/07		379.00		2723.94	Sierrita
						1/19/08		491.10		2611.84	Sierrita
						1/29/08	491.10		Dynamic		BW, 2015a
						2/29/08	476.20		Dynamic		BW, 2015a
						4/21/08		480.80		2622.14	Sierrita
						4/30/08	480.80		Dynamic		BW, 2015a
						7/29/08		473.00		2629.94	Sierrita
						7/29/08	473.00		Dynamic		BW, 2015a
						8/29/08	478.80		Dynamic		BW, 2015a
						9/29/08	478.29		Dynamic		BW, 2015a
						10/24/08		475.03		2627.91	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-9	508238	Sierrita	3522207.639	497369.791	3102.94	10/24/08	475.03		Dynamic		BW, 2015a
						1/21/09		469		2633.94	Sierrita
						3/10/09	357.20		Static		BW, 2015a
						5/13/09		357.20		2745.74	Sierrita
						5/13/09	464.60		Dynamic		BW, 2015a
						12/15/09	434.50		Dynamic		BW, 2015a
						4/12/10		426.67		2676.27	Sierrita
						3/9/11	377.51		Dynamic		BW, 2015a
						4/15/11	348.92		Static		BW, 2015a
						5/26/11		503.43		2599.51	Sierrita
						6/27/11	541.95		Dynamic		BW, 2015a
						7/12/11	353.63		Static		BW, 2015a
						8/23/11	532.85		Dynamic		BW, 2015a
						12/29/11	527.68		Dynamic		BW, 2015a
						1/26/12	519.52		Dynamic		BW, 2015a
						2/28/12	357.62		Static		BW, 2015a
						3/30/12	498.65		Dynamic		BW, 2015a
						5/21/12		518.95		2583.99	Sierrita
						5/21/12	518.95		Dynamic		BW, 2015a
						6/27/12	365.39		Static		BW, 2015a
						8/21/12	364.63		Static		BW, 2015a
						9/28/12	517.21		Dynamic		BW, 2015a
						10/25/12	365.94		Static		BW, 2015a
						11/28/12	515.27		Dynamic		BW, 2015a
						4/15/13		502.13	Dynamic	2600.81	Sierrita
						6/24/13	367.33		Static		BW, 2015a
						7/31/13	517.14		Dynamic		BW, 2015a
						8/1/13	366.73		Static		BW, 2015a
						9/30/13	517.08		Dynamic		BW, 2015a
						10/30/13	376.14		Static		BW, 2015a
						11/28/13	511.24		Dynamic		BW, 2015a
						12/9/13	374.47		Static		BW, 2015a
						1/28/14		483.69	Dynamic	2619.25	Sierrita
						1/28/14	483.69		Dynamic		BW, 2015a
						2/24/14		373.42	Static	2729.52	Sierrita
						2/24/14	373.42		Static		BW, 2015a
						3/25/14		455.68	Dynamic	2647.26	Sierrita
						3/31/14	455.68		Dynamic		BW, 2015a
						4/25/14		366.85	Dynamic	2736.09	Sierrita
						5/30/14		367.02	Static	2735.92	Sierrita
						5/30/14	367.02		Static		BW, 2015a
						6/9/14		425.70	Dynamic	2677.24	Sierrita
						6/9/14	425.70		Dynamic		BW, 2015a
						7/6/14		364.20	Static	2738.74	Sierrita
						7/6/14	363.66		Static		BW, 2015a
						7/31/14		420.70	Dynamic	2682.24	Sierrita
						7/31/14	420.70		Dynamic		BW, 2015a
						8/27/14		362.50	Static	2740.44	Sierrita
						8/27/14	362.50		Static		BW, 2015a
						10/1/14		363.03	Dynamic	2739.91	Sierrita
						10/1/14	362.49		Static		BW, 2015a
						11/4/14		360.80	Static	2742.14	Sierrita
						11/4/14	360.26		Static		BW, 2015a
						12/2/14		362.40	Dynamic	2740.54	Sierrita
						4/9/15		363.90	Static	2739.04	Sierrita
						5/2/15		365.45	Static	2737.49	Sierrita
						6/11/15		365.65	Static	2737.29	Sierrita
						7/8/15		367.75	Static	2735.19	Sierrita
						10/7/15		367.10	Static	2735.84	Sierrita
						11/4/15		365.87	Static	2737.07	Sierrita
						12/9/15		367.90	Static	2735.04	Sierrita
						1/12/16		368.92	Static	2734.02	Sierrita
						4/29/16		358.88	Static	2744.06	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-10	508237	Sierrita	3523122.199	497370.367	3129.64	2/20/06	459.50		Dynamic		BW, 2015a
						3/14/06	460.50		Dynamic		BW, 2015a
						4/15/06	468.10		Dynamic		BW, 2015a
						5/14/06	453.00		Dynamic		BW, 2015a
						6/10/06	490.55		Dynamic		BW, 2015a
						7/16/06	453.40		Dynamic		BW, 2015a
						8/13/06	458.00		Dynamic		BW, 2015a
						9/16/06	460.60		Dynamic		BW, 2015a
						10/20/06	458.95		Dynamic		BW, 2015a
						11/10/06	464.05		Dynamic		BW, 2015a
						11/15/06		464.05		2665.59	Sierrita
						12/16/06	463.21		Dynamic		BW, 2015a
						1/17/07	370.70		Static		BW, 2015a
						2/24/07		463.40		2666.24	Sierrita
						2/24/07	463.40		Dynamic		BW, 2015a
						3/19/07	466.30		Dynamic		BW, 2015a
						4/24/07	465.60		Dynamic		BW, 2015a
						5/29/07	464.80		Dynamic		BW, 2015a
						6/26/07	466.05		Dynamic		BW, 2015a
						7/21/07		464.22		2665.42	Sierrita
						7/21/07	465.70		Dynamic		BW, 2015a
						8/29/07	465.00		Dynamic		BW, 2015a
						10/18/07		465.25		2664.39	Sierrita
						11/28/07	466.10		Dynamic		BW, 2015a
						1/19/08		465.75		2663.89	Sierrita
						1/29/08	465.75		Dynamic		BW, 2015a
						2/29/08	463.75		Dynamic		BW, 2015a
						3/31/08	464.20		Dynamic		BW, 2015a
						4/21/08		463.29		2666.35	Sierrita
						4/30/08	463.29		Dynamic		BW, 2015a
						5/27/08	464.00		Dynamic		BW, 2015a
						6/30/08	465.35		Dynamic		BW, 2015a
						7/29/08		466.11		2663.53	Sierrita
IW-10	508237	Sierrita	3523122.199	497370.367	3129.64	7/29/08	466.11		Dynamic		BW, 2015a
						8/16/08	352.36		Static		BW, 2015a
						8/29/08	467.52		Dynamic		BW, 2015a
						9/29/08	468.22		Dynamic		BW, 2015a
						10/24/08		468.33		2661.31	Sierrita
						10/24/08	468.33		Dynamic		BW, 2015a
						1/21/09		465		2664.64	Sierrita
						3/10/09	391.20		Static		BW, 2015a
						5/13/09		391.20		2738.44	Sierrita
						5/13/09	467.00		Dynamic		BW, 2015a
						12/15/09	465.00		Dynamic		BW, 2015a
						4/12/10		463.16		2666.48	Sierrita
						3/9/11	457.23		Dynamic		BW, 2015a
						4/15/11	385.42		Static		BW, 2015a
						5/11/11		456.68		2672.96	Sierrita
						5/11/11	456.68		Dynamic		BW, 2015a
						6/27/11	456.74		Dynamic		BW, 2015a
						7/12/11	387.19		Static		BW, 2015a
						8/23/11	457.70		Dynamic		BW, 2015a
						12/29/11	465.20		Dynamic		BW, 2015a
						1/26/12	460.47		Dynamic		BW, 2015a
						2/28/12	389.21		Static		BW, 2015a
						3/29/12	465.39		Dynamic		BW, 2015a
						5/22/12		466.57		2663.07	Sierrita
						5/22/12	466.57		Dynamic		BW, 2015a
						6/27/12	398.46		Static		BW, 2015a
						8/21/12	408.19		Static		BW, 2015a
						9/26/12	483.26		Dynamic		BW, 2015a
						10/25/12	411.87		Static		BW, 2015a
						4/15/13		405.06	Dynamic	2724.58	Sierrita
						6/24/13	413.49		Static		BW, 2015a
						7/31/13	482.88		Dynamic		BW, 2015a
						8/1/13	413.74		Static		BW, 2015a
						9/30/13	483.33		Dynamic		BW, 2015a
						10/30/13	417.82		Static		BW, 2015a
						11/28/13	484.51		Dynamic		BW, 2015a
						12/9/13	414.63		Static		BW, 2015a
						1/28/14	487.15		Dynamic		BW, 2015a
						1/29/14		487.15	Dynamic	2642.49	Sierrita
						2/24/14		416.79	Static	2712.85	Sierrita
						2/24/14	416.79		Static		BW, 2015a
						3/24/14		485.73	Dynamic	2643.91	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-10	508237	Sierrita	3523122.199	497370.367	3129.64	3/31/14	485.73		Dynamic		BW, 2015a
						4/25/14		415.32	Dynamic	2714.32	Sierrita
						5/30/14		485.78	Dynamic	2643.86	Sierrita
						5/30/14	485.78		Dynamic		BW, 2015a
						6/9/14		480.10	Dynamic	2649.54	Sierrita
						6/9/14	480.10		Dynamic		BW, 2015a
						7/6/14		478.30	Dynamic	2651.34	Sierrita
						7/6/14	477.80		Dynamic		BW, 2015a
						7/31/14		472.30	Dynamic	2657.34	Sierrita
						7/31/14	472.30		Dynamic		BW, 2015a
						8/27/14		Insufficient Flow		NA	Sierrita
						10/1/14		Obstructed		NA	Sierrita
						11/4/14		Obstructed		NA	Sierrita
						12/2/14		Obstructed		NA	Sierrita
						4/9/15		Obstructed	Dynamic	NA	Sierrita
						5/2/15		Obstructed	Dynamic	NA	Sierrita
						6/11/15		Obstructed	Dynamic	NA	Sierrita
						7/8/15		Obstructed	Dynamic	NA	Sierrita
						10/4/15		Obstructed	Dynamic	NA	Sierrita
						11/4/15		Obstructed	Dynamic	NA	Sierrita
						12/9/15		Obstructed	Static	NA	Sierrita
						1/12/16		UTM	Static	NA	Sierrita
						4/29/16		UTM	Static	NA	Sierrita
IW-11	508235	Sierrita	3523428.954	497371.414	3127.20	1/14/06	439.25		Dynamic		BW, 2015a
						2/20/06	446.40		Dynamic		BW, 2015a
						3/14/06	382.25		Static		BW, 2015a
						4/15/06	385.38		Static		BW, 2015a
						7/16/06	379.58		Static		BW, 2015a
						8/13/06	381.30		Static		BW, 2015a
						9/16/06	429.65		Dynamic		BW, 2015a
						10/20/06	427.48		Dynamic		BW, 2015a
						11/11/06	429.25		Dynamic		BW, 2015a
						11/21/06		429.25		2697.95	Sierrita
						12/16/06	427.72		Dynamic		BW, 2015a
						1/25/07	428.20		Dynamic		BW, 2015a
						2/24/07		428.05		2699.15	Sierrita
						2/24/07	428.05		Dynamic		BW, 2015a
						3/17/07	429.00		Dynamic		BW, 2015a
						4/24/07	428.95		Dynamic		BW, 2015a
						5/30/07	428.82		Dynamic		BW, 2015a
						6/22/07	429.85		Dynamic		BW, 2015a
						7/31/07		428.50		2698.70	Sierrita
						8/29/07	429.80		Dynamic		BW, 2015a
						10/17/07		430.00		2697.20	Sierrita
						11/29/07	429.85		Dynamic		BW, 2015a
						1/29/08		430.00		2697.20	Sierrita
						1/29/08	430.00		Dynamic		BW, 2015a
						2/28/08	428.75		Dynamic		BW, 2015a
						3/31/08	428.50		Dynamic		BW, 2015a
						4/22/08		428.00		2699.20	Sierrita
						4/30/08	428.00		Dynamic		BW, 2015a
						5/27/08	424.80		Dynamic		BW, 2015a
						6/30/08	430.55		Dynamic		BW, 2015a
						7/29/08		430.90		2696.30	Sierrita
						7/29/08	430.90		Dynamic		BW, 2015a
						8/29/08	431.80		Dynamic		BW, 2015a
						9/29/08	432.87		Dynamic		BW, 2015a
						10/24/08		433.01		2694.19	Sierrita
						10/24/08	433.01		Dynamic		BW, 2015a
						1/21/09		429		2698.20	Sierrita
						3/10/09	379.70		Static		BW, 2015a
						5/13/09		379.70		2747.50	Sierrita
						5/13/09	429.00		Dynamic		BW, 2015a
						12/15/09	424.60		Dynamic		BW, 2015a
						4/12/10		421.14		2706.06	Sierrita
						3/9/11	413.68		Dynamic		BW, 2015a
						4/15/11	375.43		Static		BW, 2015a
						5/11/11		414.21		2712.99	Sierrita
						5/11/11	414.21		Dynamic		BW, 2015a
						6/27/11	411.76		Dynamic		BW, 2015a
						8/23/11	450.45		Dynamic		BW, 2015a
						12/29/11	452.00		Dynamic		BW, 2015a
						1/26/12	449.33		Dynamic		BW, 2015a
						3/29/12	451.42		Dynamic		BW, 2015a
						5/22/12		439.67		2687.53	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-11	508235	Sierrita	3523428.954	497371.414	3127.20	5/22/12	439.67		Dynamic		BW, 2015a
						7/31/12	459.23		Dynamic		BW, 2015a
						8/22/12	392.18		Static		BW, 2015a
						9/26/12	466.43		Dynamic		BW, 2015a
						11/25/12	400.03		Static		BW, 2015a
						11/27/12	467.67		Dynamic		BW, 2015a
						4/15/13		463.19	Dynamic	2664.01	Sierrita
						6/25/13	400.53		Static		BW, 2015a
						7/31/13	468.40		Dynamic		BW, 2015a
						8/1/13	400.57		Static		BW, 2015a
						9/30/13	468.46		Dynamic		BW, 2015a
						10/29/13	405.57		Static		BW, 2015a
						11/28/13	469.52		Dynamic		BW, 2015a
						12/9/13	404.57		Static		BW, 2015a
						1/28/14	472.74		Dynamic		BW, 2015a
						1/29/14		472.74	Dynamic	2654.46	Sierrita
						2/24/14	404.71		Static		BW, 2015a
						2/25/14		404.71	Static	2722.49	Sierrita
						3/24/14		473.94	Dynamic	2653.26	Sierrita
						3/31/14	473.94		Dynamic		BW, 2015a
						4/28/14		403.28	Dynamic	2723.92	Sierrita
						5/30/14		Obstructed		NA	Sierrita
						6/9/14		398.70	Static	2728.50	Sierrita
						6/9/14	398.70		Static		BW, 2015a
						7/7/14		370.70	Static	2756.50	Sierrita
						7/7/14	369.95		Static		BW, 2015a
						7/31/14		360.70	Static	2766.50	Sierrita
						7/31/14	360.70		Static		BW, 2015a
						8/27/14		338.50	Static	2788.70	Sierrita
						8/27/14	338.50		Static		BW, 2015a
						10/1/14		339.20	Static	2788.00	Sierrita
						10/1/14	338.45		Static		BW, 2015a
						11/4/14		Obstructed		NA	Sierrita
						12/2/14		Obstructed		NA	Sierrita
						4/9/15		Obstructed	Dynamic	NA	Sierrita
						5/2/15		394.40	Static	2732.80	Sierrita
						6/11/15		503.10	Dynamic	2624.10	Sierrita
						7/18/15		405.75	Static	2721.45	Sierrita
						10/7/15		UTM	Static	NA	Sierrita
						11/4/15		523.40	Dynamic	2603.80	Sierrita
						12/9/15		UTM	Static	NA	Sierrita
						1/12/16		540.70	Dynamic	2586.50	Sierrita
						4/29/16		397.80	Static	2729.40	Sierrita
IW-12	545555	Sierrita	3523969.869	497364.911	3138.18	2/20/06	447.10		Dynamic		BW, 2015a
						3/14/06	375.33		Static		BW, 2015a
						4/15/06	368.35		Static		BW, 2015a
						5/14/06	433.60		Dynamic		BW, 2015a
						6/10/06	429.70		Dynamic		BW, 2015a
						7/16/06	430.70		Dynamic		BW, 2015a
						8/13/06	420.80		Dynamic		BW, 2015a
						9/16/06	417.98		Dynamic		BW, 2015a
						10/20/06	413.20		Dynamic		BW, 2015a
						11/10/06	413.20		Dynamic		BW, 2015a
						12/16/06	443.18		Dynamic		BW, 2015a
						1/17/07	376.60		Static		BW, 2015a
						2/24/07		456.20		2681.98	Sierrita
						2/24/07	456.20		Dynamic		BW, 2015a
						3/19/07	464.00		Dynamic		BW, 2015a
						4/24/07	451.90		Dynamic		BW, 2015a
						5/29/07	449.10		Dynamic		BW, 2015a
						6/22/07	432.20		Dynamic		BW, 2015a
						7/21/07		428.78		2709.40	Sierrita
						7/21/07	428.78		Dynamic		BW, 2015a
						8/29/07	431.80		Dynamic		BW, 2015a
						10/17/07		433.00		2705.18	Sierrita
						11/28/07	434.80		Dynamic		BW, 2015a
						6/30/08	426.20		Dynamic		BW, 2015a
						7/29/08		425.90		2712.28	Sierrita
						7/29/08	425.90		Dynamic		BW, 2015a
						8/29/08	428.58		Dynamic		BW, 2015a
						9/29/08	427.40		Dynamic		BW, 2015a
						10/24/08		425.90		2712.28	Sierrita
						10/24/08	425.90		Dynamic		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-12	545555	Sierrita	3523969.869	497364.911	3138.18	1/29/09		427		2711.18	Sierrita
						3/10/09	375.80		Static		BW, 2015a
						5/13/09		375.80		2762.38	Sierrita
						5/13/09	430.60		Dynamic		BW, 2015a
						12/15/09	428.90		Dynamic		BW, 2015a
						4/12/10		425.40		2712.78	Sierrita
						3/9/11	414.92		Dynamic		BW, 2015a
						4/14/11	371.21		Static		BW, 2015a
						5/11/11		415.81		2722.37	Sierrita
						5/11/11	415.81		Dynamic		BW, 2015a
						6/29/11	415.29		Dynamic		BW, 2015a
						7/12/11	372.05		Static		BW, 2015a
						8/23/11	411.60		Dynamic		BW, 2015a
						12/29/11	372.28		Static		BW, 2015a
						1/26/12	415.39		Dynamic		BW, 2015a
						2/28/12	373.26		Static		BW, 2015a
						3/29/12	393.68		Dynamic		BW, 2015a
						5/22/12		411.45		2726.73	Sierrita
						5/22/12	411.45		Dynamic		BW, 2015a
						6/27/12	371.15		Static		BW, 2015a
						7/31/12	427.28		Dynamic		BW, 2015a
						8/22/12	376.92		Static		BW, 2015a
						9/26/12	422.48		Dynamic		BW, 2015a
						10/25/12	382.92		Static		BW, 2015a
						11/27/12	426.02		Dynamic		BW, 2015a
						5/14/13		420.22	Dynamic	2717.96	Sierrita
						6/25/13	386.04		Static		BW, 2015a
						7/31/13	440.86		Dynamic		BW, 2015a
						8/1/13	386.00		Static		BW, 2015a
						9/30/13	441.10		Dynamic		BW, 2015a
						10/29/13	395.37		Static		BW, 2015a
						11/28/13	435.47		Dynamic		BW, 2015a
						12/9/13	391.32		Static		BW, 2015a
						1/28/14		381.41	Static	2756.77	Sierrita
						1/28/14	381.41		Static		BW, 2015a
						2/24/14		380.19	Static	2757.99	Sierrita
						2/24/14	380.19		Static		BW, 2015a
						3/24/14		380.01	Static	2758.17	Sierrita
						3/31/14	380.01		Static		BW, 2015a
						4/28/14		386.78	Dynamic	2751.40	Sierrita
						5/30/14		434.66	Dynamic	2703.52	Sierrita
						5/30/14	434.66		Dynamic		BW, 2015a
						6/9/14		500.10	Dynamic	2638.08	Sierrita
						7/7/14		490.40	Dynamic	2647.78	Sierrita
						7/7/14	489.69		Dynamic		BW, 2015a
						7/31/14		478.50	Dynamic	2659.68	Sierrita
						7/31/14	478.50		Dynamic		BW, 2015a
						8/27/14		386.40	Static	2751.78	Sierrita
						8/27/14	386.40		Static		BW, 2015a
						10/1/14		486.30	Dynamic	2651.88	Sierrita
						10/1/14	485.59		Dynamic		BW, 2015a
						11/4/14		475.70	Dynamic	2662.48	Sierrita
						11/4/14	474.99		Dynamic		BW, 2015a
						12/2/14		475.95	Dynamic	2662.23	Sierrita
						12/2/14	475.24		Dynamic		BW, 2015a
						4/9/15		458.20	Dynamic	2679.98	Sierrita
						5/2/15		484.20	Dynamic	2653.98	Sierrita
						6/11/15		448.60	Dynamic	2689.58	Sierrita
						7/18/15		456.50	Dynamic	2681.68	Sierrita
						10/7/15		UTM	Static	NA	Sierrita
						11/4/15		481.30	Dynamic	2656.88	Sierrita
						12/9/15		UTM	Static	NA	Sierrita
						1/12/16		504.25	Dynamic	2633.93	Sierrita
						4/29/16		499.70	Dynamic	2638.48	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-13	545556	Sierrita	3524166.673	497363.820	3143.35	1/14/06	382.10		Static		BW, 2015a
						2/20/06	398.95		Dynamic		BW, 2015a
						3/14/06	386.25		Static		BW, 2015a
						4/15/06	403.55		Dynamic		BW, 2015a
						5/14/06	402.85		Dynamic		BW, 2015a
						6/10/06	405.27		Dynamic		BW, 2015a
						7/16/06	406.30		Dynamic		BW, 2015a
						8/13/06	408.80		Dynamic		BW, 2015a
						9/16/06	409.38		Dynamic		BW, 2015a
						10/20/06	408.10		Dynamic		BW, 2015a
						11/11/06	409.95		Dynamic		BW, 2015a
						12/16/06	408.25		Dynamic		BW, 2015a
						1/29/07	411.20		Dynamic		BW, 2015a
						2/24/07	411.90		Dynamic		BW, 2015a
						3/17/07	411.60		Dynamic		BW, 2015a
						4/24/07	411.15		Dynamic		BW, 2015a
						5/30/07	412.91		Dynamic		BW, 2015a
						6/22/07	412.75		Dynamic		BW, 2015a
						7/31/07		412.13		2731.22	Sierrita
						8/29/07	411.88		Dynamic		BW, 2015a
						10/17/07		413.30		2730.05	Sierrita
						11/29/07	413.40		Dynamic		BW, 2015a
						1/29/08		412.21		2731.14	Sierrita
						1/29/08	412.21		Dynamic		BW, 2015a
						2/28/08	411.10		Dynamic		BW, 2015a
						3/31/08	410.79		Dynamic		BW, 2015a
						4/22/08		410.42		2732.93	Sierrita
						4/30/08	410.42		Dynamic		BW, 2015a
						5/27/08	409.50		Dynamic		BW, 2015a
						6/30/08	409.18		Dynamic		BW, 2015a
						7/29/08		410.00		2733.35	Sierrita
						7/29/08	410.00		Dynamic		BW, 2015a
						8/29/08	410.30		Dynamic		BW, 2015a
						9/29/08	411.02		Dynamic		BW, 2015a
						10/24/08		410.95		2732.40	Sierrita
						10/24/08	410.95		Dynamic		BW, 2015a
						1/29/09		411		2732.35	Sierrita
						3/10/09	388.90		Static		BW, 2015a
						5/13/09		388.90		2754.45	Sierrita
						5/13/09	410.00		Dynamic		BW, 2015a
						12/15/09	408.60		Dynamic		BW, 2015a
						4/12/10		404.66		2738.69	Sierrita
						3/9/11	386.19		Static		BW, 2015a
						4/14/11	382.59		Static		BW, 2015a
						5/11/11		401.85		2741.50	Sierrita
						5/11/11	401.85		Dynamic		BW, 2015a
						6/29/11	401.54		Dynamic		BW, 2015a
						7/12/11	383.55		Static		BW, 2015a
						8/23/11	402.38		Dynamic		BW, 2015a
						12/29/11	402.00		Dynamic		BW, 2015a
						1/26/12	401.86		Dynamic		BW, 2015a
						2/28/12	386.00		Static		BW, 2015a
						3/29/12	403.60		Dynamic		BW, 2015a
						6/20/12		405.53		2737.82	Sierrita
						6/27/12	387.62		Static		BW, 2015a
						7/31/12	443.39		Dynamic		BW, 2015a
						8/22/12	389.92		Static		BW, 2015a
						9/26/12	450.28		Dynamic		BW, 2015a
						10/26/12	392.99		Static		BW, 2015a
						11/27/12	420.16		Dynamic		BW, 2015a
						4/15/13		410.89	Dynamic	2732.46	Sierrita
						6/25/13	396.57		Static		BW, 2015a
						7/31/13	422.24		Dynamic		BW, 2015a
						8/1/13	396.63		Static		BW, 2015a
						9/30/13	422.31		Dynamic		BW, 2015a
						10/29/13	409.74		Static		BW, 2015a
						11/28/13	423.62		Dynamic		BW, 2015a
						12/9/13	398.81		Static		BW, 2015a
						1/28/14		432.93	Dynamic	2710.42	Sierrita
						1/28/14	432.93		Dynamic		BW, 2015a
						2/24/14	401.88		Static		BW, 2015a
						2/25/14		401.88	Static	2741.47	Sierrita
						3/24/14		438.75	Dynamic	2704.60	Sierrita
						3/31/14	438.75		Dynamic		BW, 2015a
						4/25/14		403.78	Dynamic	2739.57	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-13	545556	Sierrita	3524166.673	497363.82	3143.35	5/30/14		438.80	Dynamic	2704.55	Sierrita
						5/30/14	438.80		Dynamic		BW, 2015a
						6/9/14		416.40	Static	2726.95	Sierrita
						6/9/14	416.40		Static		BW, 2015a
						7/7/14		405.70	Static	2737.65	Sierrita
						7/7/14	404.74		Static		BW, 2015a
						7/31/14		405.70	Static	2737.65	Sierrita
						7/31/14	405.70		Static		BW, 2015a
						8/27/14		404.30	Static	2739.05	Sierrita
						8/27/14	404.30		Static		BW, 2015a
						10/1/14		459.50	Static	2683.85	Sierrita
						10/1/14		406.90	Static	2736.45	Sierrita
						10/1/14	405.94		Static		BW, 2015a
						11/4/14		404.20	Static	2739.15	Sierrita
						11/4/14	403.24		Static		BW, 2015a
						12/2/14		402.80	Static	2740.55	Sierrita
						12/2/14	401.84		Static		BW, 2015a
						4/9/15		398.70	Static	2744.65	Sierrita
						5/2/15		399.20	Static	2744.15	Sierrita
						6/11/15		398.80	Static	2744.55	Sierrita
						7/18/15		400.65	Static	2742.70	Sierrita
						10/7/15		401.93	Static	2741.42	Sierrita
						11/4/15		401.70	Static	2741.65	Sierrita
						12/9/15		402.50	Static	2740.85	Sierrita
						1/12/16		402.80	Static	2740.55	Sierrita
						4/29/16		402.35	Static	2741.00	Sierrita
IW-14	545557	Sierrita	3526924.656	497367.126	3146.42	1/14/06	441.20		Dynamic		BW, 2015a
						2/20/06	436.10		Dynamic		BW, 2015a
						3/14/06	379.95		Static		BW, 2015a
						4/15/06	459.58		Dynamic		BW, 2015a
						5/14/06	445.42		Dynamic		BW, 2015a
						6/10/06	447.55		Dynamic		BW, 2015a
						7/16/06	450.11		Dynamic		BW, 2015a
						8/13/06	458.50		Dynamic		BW, 2015a
						9/16/06	458.09		Dynamic		BW, 2015a
						10/20/06	456.00		Dynamic		BW, 2015a
						11/11/06	471.68		Dynamic		BW, 2015a
						11/15/06		471.68		2674.74	Sierrita
						12/16/06	470.30		Dynamic		BW, 2015a
						1/29/07	474.40		Dynamic		BW, 2015a
						2/24/07		463.35		2683.07	Sierrita
						2/24/07	463.35		Dynamic		BW, 2015a
						3/17/07	479.00		Dynamic		BW, 2015a
						4/24/07	471.90		Dynamic		BW, 2015a
						5/29/07	476.90		Dynamic		BW, 2015a
						6/22/07	476.40		Dynamic		BW, 2015a
						7/31/07		474.00		2672.42	Sierrita
						8/29/07	480.50		Dynamic		BW, 2015a
						10/16/07		480.00		2666.42	Sierrita
						11/29/07	491.30		Dynamic		BW, 2015a
						1/29/08		478.50		2667.92	Sierrita
						1/29/08	478.50		Dynamic		BW, 2015a
						2/28/08	465.10		Dynamic		BW, 2015a
						3/31/08	464.99		Dynamic		BW, 2015a
						4/21/08		457.75		2688.67	Sierrita
						4/30/08	457.75		Dynamic		BW, 2015a
						5/27/08	473.90		Dynamic		BW, 2015a
						6/30/08	477.77		Dynamic		BW, 2015a
						7/29/08		478.06		2668.36	Sierrita
						7/29/08	478.06		Dynamic		BW, 2015a
						8/29/08	467.20		Dynamic		BW, 2015a
						9/29/08	466.99		Dynamic		BW, 2015a
						10/24/08		467.07		2679.35	Sierrita
						10/24/08	467.07		Dynamic		BW, 2015a
						1/29/09		466		2680.42	Sierrita
						3/10/09	383.30		Static		BW, 2015a
						5/13/09		383.30		2763.12	Sierrita
						5/13/09	460.00		Dynamic		BW, 2015a
						12/15/09	447.90		Dynamic		BW, 2015a
						4/21/10		422.20		2724.22	Sierrita
						3/10/11	406.36		Dynamic		BW, 2015a
						4/14/11	378.11		Static		BW, 2015a
						5/11/11		404.48		2741.94	Sierrita
						5/11/11	404.48		Dynamic		BW, 2015a
						6/29/11	403.37		Dynamic		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-14	545557	Sierrita	3526924.656	497367.126	3146.42	7/12/11	349.52		Static		BW, 2015a
						8/23/11	404.40		Dynamic		BW, 2015a
						12/29/11	395.50		Dynamic		BW, 2015a
						2/28/12	380.28		Static		BW, 2015a
						3/29/12	459.54		Dynamic		BW, 2015a
						5/22/12		458.57		2687.85	Sierrita
						5/22/12	458.57		Dynamic		BW, 2015a
						6/27/12	381.75		Static		BW, 2015a
						7/31/12	455.15		Dynamic		BW, 2015a
						8/22/12	383.91		Static		BW, 2015a
						9/26/12	459.39		Dynamic		BW, 2015a
						10/26/12	386.33		Static		BW, 2015a
						11/27/12	459.43		Dynamic		BW, 2015a
						4/15/13		460.72	Dynamic	2685.70	Sierrita
						6/25/13	386.94		Static		BW, 2015a
						8/1/13	386.93		Static		BW, 2015a
						9/30/13	458.60		Dynamic		BW, 2015a
						10/28/13	391.09		Static		BW, 2015a
						11/28/13	451.70		Dynamic		BW, 2015a
						12/9/13	390.79		Static		BW, 2015a
						1/28/14		459.02	Dynamic	2687.40	Sierrita
						1/28/14	459.02		Dynamic		BW, 2015a
						2/24/14	393.02		Static		BW, 2015a
						2/25/14		393.02	Dynamic	2753.40	Sierrita
						3/24/14		455.21	Dynamic	2691.21	Sierrita
						3/31/14	455.21		Dynamic		BW, 2015a
						4/28/14		394.49	Dynamic	2751.93	Sierrita
						5/30/14		453.19	Dynamic	2693.23	Sierrita
						5/30/14	453.19		Dynamic		BW, 2015a
						6/9/14		459.40	Dynamic	2687.02	Sierrita
						6/9/14	459.40		Dynamic		BW, 2015a
						7/7/14		459.30	Dynamic	2687.12	Sierrita
						7/7/14	459.13		Dynamic		BW, 2015a
						7/31/14		459.30	Dynamic	2687.12	Sierrita
						7/31/14	459.30		Dynamic		BW, 2015a
						8/27/14		394.60	Static	2751.82	Sierrita
						8/27/14	394.60		Static		BW, 2015a
						10/1/14	459.33		Dynamic		BW, 2015a
						11/4/14		459.40	Dynamic	2687.02	Sierrita
						11/4/14	459.23		Dynamic		BW, 2015a
						12/2/14		459.40	Dynamic	2687.02	Sierrita
						12/2/14	459.23		Dynamic		BW, 2015a
						4/9/15		459.50	Dynamic	2686.92	Sierrita
						5/2/15		459.50	Dynamic	2686.92	Sierrita
						6/11/15		400.05	Static	2746.37	Sierrita
						7/18/15		460.10	Dynamic	2686.32	Sierrita
						10/7/15		400.92	Static	2745.50	Sierrita
						11/4/15		459.45	Dynamic	2686.97	Sierrita
						12/9/15		400.80	Static	2745.62	Sierrita
						1/12/16		459.55	Dynamic	2686.87	Sierrita
						4/29/16		459.50	Dynamic	2686.92	Sierrita
IW-15	545558	Sierrita	3526924.656	497372.873	3152.02	2/20/06	416.20		Dynamic		BW, 2015a
						3/14/06	387.55		Static		BW, 2015a
						4/15/06	420.70		Dynamic		BW, 2015a
						5/14/06	417.60		Dynamic		BW, 2015a
						6/10/06	419.48		Dynamic		BW, 2015a
						7/16/06	422.65		Dynamic		BW, 2015a
						8/13/06	423.60		Dynamic		BW, 2015a
						9/16/06	424.60		Dynamic		BW, 2015a
						10/20/06	424.35		Dynamic		BW, 2015a
						11/11/06	427.27		Dynamic		BW, 2015a
						11/15/06		427.27		2724.75	Sierrita
						12/16/06	427.79		Dynamic		BW, 2015a
						1/29/07	429.75		Dynamic		BW, 2015a
						2/24/07		429.89		2722.13	Sierrita
						2/24/07	429.89		Dynamic		BW, 2015a
						3/17/07	431.05		Dynamic		BW, 2015a
						4/24/07	431.40		Dynamic		BW, 2015a
						5/30/07	431.90		Dynamic		BW, 2015a
						6/22/07	431.60		Dynamic		BW, 2015a
						7/31/07		430.55		2721.47	Sierrita
						8/29/07	429.70		Dynamic		BW, 2015a
						10/16/07		390.30		2761.72	Sierrita
						11/29/07	428.15		Dynamic		BW, 2015a
						1/29/08		430.45		2721.57	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-15	545558	Sierrita	3526924.656	497372.873	3152.02	1/29/08	430.45		Dynamic		BW, 2015a
						2/28/08	430.18		Dynamic		BW, 2015a
						3/31/08	429.95		Dynamic		BW, 2015a
						4/22/08		429.70		2722.32	Sierrita
						4/30/08	429.70		Dynamic		BW, 2015a
						5/27/08	427.81				BW, 2015a
						6/30/08	429.65		Dynamic		BW, 2015a
						7/29/08		429.50		2722.52	Sierrita
						7/29/08	429.50		Dynamic		BW, 2015a
						8/29/08	430.95		Dynamic		BW, 2015a
						9/29/08	430.50		Dynamic		BW, 2015a
						10/24/08		430.49		2721.53	Sierrita
						10/24/08	430.49		Dynamic		BW, 2015a
						1/29/09		430		2722.02	Sierrita
						3/10/09	388.00		Static		BW, 2015a
						5/13/09		388.00		2764.02	Sierrita
						5/13/09	427.80		Dynamic		BW, 2015a
						12/15/09	425.40		Dynamic		BW, 2015a
						4/12/10		419.39		2732.63	Sierrita
						3/9/11	415.00		Dynamic		BW, 2015a
						4/14/11	394.57		Static		BW, 2015a
						5/11/11		414.82		2737.20	Sierrita
						5/11/11	414.82		Dynamic		BW, 2015a
						6/29/11	412.55		Dynamic		BW, 2015a
						7/12/11	384.89		Static		BW, 2015a
						8/23/11	416.35		Dynamic		BW, 2015a
						12/30/11	414.20		Dynamic		BW, 2015a
						1/26/12	418.02		Dynamic		BW, 2015a
						2/28/12	373.03		Static		BW, 2015a
						3/29/12	421.94		Dynamic		BW, 2015a
						5/22/12		410.54		2741.48	Sierrita
						5/22/12	410.54		Dynamic		BW, 2015a
						6/27/12	387.88		Static		BW, 2015a
						7/31/12	418.27		Dynamic		BW, 2015a
						8/22/12	389.33		Static		BW, 2015a
						9/26/12	433.77		Dynamic		BW, 2015a
						10/26/12	391.31		Static		BW, 2015a
						11/27/12	438.04		Dynamic		BW, 2015a
						5/14/13		439.64	Dynamic	2712.38	Sierrita
						6/25/13	392.73		Dynamic		BW, 2015a
						7/31/13	440.11		Dynamic		BW, 2015a
						8/1/13	392.95		Static		BW, 2015a
						9/30/13	440.52		Dynamic		BW, 2015a
						10/28/13	395.39		Static		BW, 2015a
						11/28/13	441.34		Dynamic		BW, 2015a
						12/9/13	395.57		Static		BW, 2015a
						1/28/14		458.15	Dynamic	2693.87	Sierrita
						1/28/14	458.15		Dynamic		BW, 2015a
						2/24/14	397.32		Static		BW, 2015a
						2/25/14		397.32	Dynamic	2754.70	Sierrita
						3/24/14		477.16	Dynamic	2674.86	Sierrita
						3/31/14	477.16		Dynamic		BW, 2015a
						4/28/14		399.11	Dynamic	2752.91	Sierrita
						5/30/14		477.18	Dynamic	2674.84	Sierrita
						5/30/14	477.18		Dynamic		BW, 2015a
						6/9/14		491.25	Dynamic	2660.77	Sierrita
						6/9/14	491.25		Dynamic		BW, 2015a
						7/7/14		399.40	Static	2752.62	Sierrita
						7/7/14	399.15		Static		BW, 2015a
						7/31/14		491.30	Dynamic	2660.72	Sierrita
						7/31/14	491.30		Dynamic		BW, 2015a
						8/27/14		400.60	Static	2751.42	Sierrita
						8/27/14	400.60		Static		BW, 2015a
						10/1/14		491.40	Dynamic	2660.62	Sierrita
						10/1/14	491.15		Dynamic		BW, 2015a
						11/4/14		491.40	Dynamic	2660.62	Sierrita
						11/4/14	491.15		Dynamic		BW, 2015a
						12/2/14		491.40	Dynamic	2660.62	Sierrita
						12/2/14	491.15		Dynamic		BW, 2015a
						4/9/15		491.40	Dynamic	2660.62	Sierrita
						5/2/15		401.70	Static	2750.32	Sierrita
						6/11/15		408.20	Static	2743.82	Sierrita
						10/7/15		404.60	Static	2747.42	Sierrita
						11/4/15		491.40	Dynamic	2660.62	Sierrita
						12/9/15		403.75	Static	2748.27	Sierrita
						1/12/16		498.37	Dynamic	2653.65	Sierrita
						4/29/16		498.30	Dynamic	2653.72	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-16	545559	Sierrita	3526924.656	497370.651	3162.85	1/14/06	399.60		Static		BW, 2015a
						2/20/06	405.00		Dynamic		BW, 2015a
						3/14/06	405.60		Dynamic		BW, 2015a
						4/15/06	406.97		Dynamic		BW, 2015a
						5/14/06	406.45		Dynamic		BW, 2015a
						6/10/06	407.55		Dynamic		BW, 2015a
						7/16/06	408.31		Dynamic		BW, 2015a
						8/13/06	408.95		Dynamic		BW, 2015a
						9/16/06	409.20		Dynamic		BW, 2015a
						10/20/06	408.94		Dynamic		BW, 2015a
						11/11/06	409.69		Dynamic		BW, 2015a
						11/15/06		409.69		2753.16	Sierrita
						12/16/06	409.81		Dynamic		BW, 2015a
						1/29/07	410.00		Dynamic		BW, 2015a
						2/24/07		409.95		2752.90	Sierrita
						2/24/07	409.95		Dynamic		BW, 2015a
						3/17/07	409.35		Dynamic		BW, 2015a
						4/24/07	409.00		Dynamic		BW, 2015a
						5/30/07	409.50		Dynamic		BW, 2015a
						6/22/07	409.10		Dynamic		BW, 2015a
						7/31/07		409.50		2753.35	Sierrita
						8/29/07	409.65		Dynamic		BW, 2015a
						10/16/07		409.17		2753.68	Sierrita
						11/29/07	408.90		Dynamic		BW, 2015a
						1/29/08		409.20		2753.65	Sierrita
						1/29/08	409.20		Dynamic		BW, 2015a
						2/28/08	408.80		Dynamic		BW, 2015a
						3/31/08	408.92		Dynamic		BW, 2015a
						4/22/08		408.89		2753.96	Sierrita
						4/30/08	408.89		Dynamic		BW, 2015a
						5/27/08	408.92		Dynamic		BW, 2015a
						6/30/08	408.48		Dynamic		BW, 2015a
						7/29/08		409.02		2753.83	Sierrita
						7/29/08	409.02		Dynamic		BW, 2015a
						8/29/08	408.44		Dynamic		BW, 2015a
						9/29/08	408.24		Dynamic		BW, 2015a
						10/24/08		408.29		2754.56	Sierrita
						10/24/08	408.29		Dynamic		BW, 2015a
						1/29/09		409		2753.85	Sierrita
						3/10/09	402.00		Static		BW, 2015a
						5/13/09		402.00		2760.85	Sierrita
						5/13/09	409.00		Dynamic		BW, 2015a
						12/15/09	408.80		Dynamic		BW, 2015a
						4/12/10		405.68		2757.17	Sierrita
						3/9/11	399.82		Dynamic		BW, 2015a
						4/14/11	399.44		Static		BW, 2015a
						6/29/11		339.30		2823.55	Sierrita
						6/29/11	399.30		Static		BW, 2015a
						7/12/11	399.56		Static		BW, 2015a
						8/25/11	400.05		Static		BW, 2015a
						12/29/11	398.25		Static		BW, 2015a
						1/26/12	400.69		Static		BW, 2015a
						2/28/12	401.00		Static		BW, 2015a
						3/29/12	401.53		Static		BW, 2015a
						6/27/12		402.80		2760.05	Sierrita
						6/27/12	402.80		Static		BW, 2015a
						7/31/12	432.47		Static		BW, 2015a
						8/22/12	403.78		Static		BW, 2015a
						9/26/12	404.54		Static		BW, 2015a
						10/26/12	405.16		Static		BW, 2015a
						11/27/12	405.72		Static		BW, 2015a
						5/14/13		407.10	Static	2755.75	Sierrita
						5/14/13	407.10		Static		BW, 2015a
						6/25/13	407.10		Static		BW, 2015a
						8/1/13	406.93		Static		BW, 2015a
						10/28/13	408.18		Static		BW, 2015a
						1/28/14		409.04	Static	2753.81	Sierrita
						2/24/14		410.15	Static	2752.70	Sierrita
						3/24/14		411.11	Static	2751.74	Sierrita
						4/25/14		411.92	Static	2750.93	Sierrita
						5/30/14		411.90	Static	2750.95	Sierrita
						6/25/15		414.08	Static	2748.77	Sierrita
						7/18/15		414.05	Static	2748.80	Sierrita
						10/7/15		414.40	Static	2748.45	Sierrita
						1/12/16		414.68	Static	2748.17	Sierrita
						4/29/16		414.74	Static	2748.11	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-17	545560	Sierrita	3525002.869	497373.717	3160.76	1/14/06	423.54		Static		BW, 2015a
						2/17/06	426.60		Dynamic		BW, 2015a
						3/14/06	427.00		Dynamic		BW, 2015a
						4/15/06	427.50		Dynamic		BW, 2015a
						5/14/06	427.70		Dynamic		BW, 2015a
						6/10/06	427.60		Dynamic		BW, 2015a
						7/16/06	428.10		Dynamic		BW, 2015a
						8/13/06	426.35		Static		BW, 2015a
						9/16/06	428.81		Dynamic		BW, 2015a
						10/20/06	428.72		Dynamic		BW, 2015a
						11/11/06	429.15		Dynamic		BW, 2015a
						11/15/06		429.15		2731.61	Sierrita
						12/16/06	429.25		Dynamic		BW, 2015a
						1/29/07	429.58		Dynamic		BW, 2015a
						2/24/07		429.70		2731.06	Sierrita
						2/24/07	429.70		Dynamic		BW, 2015a
						3/17/07	429.50		Dynamic		BW, 2015a
						4/24/07	428.80		Dynamic		BW, 2015a
						5/30/07	429.60		Dynamic		BW, 2015a
						6/22/07	428.25		Dynamic		BW, 2015a
						7/26/07		427.97		2732.79	Sierrita
						8/29/07	428.35		Dynamic		BW, 2015a
						10/16/07		427.70		2733.06	Sierrita
						11/29/07	427.48		Dynamic		BW, 2015a
						1/29/08		428.12		2732.64	Sierrita
						1/29/08	428.12		Dynamic		BW, 2015a
						2/28/08	427.95		Dynamic		BW, 2015a
						3/31/08	428.30		Dynamic		BW, 2015a
						4/22/08		428.23		2732.53	Sierrita
						4/30/08	428.23		Dynamic		BW, 2015a
						5/27/08	428.50		Dynamic		BW, 2015a
						6/30/08	428.33		Dynamic		BW, 2015a
						7/29/08		428.40		2732.36	Sierrita
						7/29/08	428.40		Dynamic		BW, 2015a
						8/29/08	428.00		Dynamic		BW, 2015a
						9/29/08	428.33		Dynamic		BW, 2015a
						10/24/08		428.45		2732.31	Sierrita
						10/24/08	428.45		Dynamic		BW, 2015a
						1/29/09		428		2732.76	Sierrita
						3/10/09	425.00		Static		BW, 2015a
						5/13/09		425.00		2735.76	Sierrita
						5/13/09	428.00		Dynamic		BW, 2015a
						12/15/09	427.60		Dynamic		BW, 2015a
						4/12/10		425.12		2735.64	Sierrita
						3/9/11	423.13		Dynamic		BW, 2015a
						4/14/11	422.59		Static		BW, 2015a
						6/29/11		422.10		2738.66	Sierrita
						6/29/11	422.10		Static		BW, 2015a
						7/12/11	421.01		Static		BW, 2015a
						8/25/11	422.00		Static		BW, 2015a
						12/29/11	422.00		Static		BW, 2015a
						1/26/12	423.06		Static		BW, 2015a
						2/28/12	423.15		Static		BW, 2015a
						3/29/12	423.21		Static		BW, 2015a
						6/27/12		424.10		2736.66	Sierrita
						6/27/12	424.10		Static		BW, 2015a
						7/31/12	429.62		Static		BW, 2015a
						8/22/12	424.92		Static		BW, 2015a
						9/26/12	425.55		Static		BW, 2015a
						10/26/12	426.15		Static		BW, 2015a
						11/27/12	426.82		Static		BW, 2015a
						5/14/13		428.86	Static	2731.90	Sierrita
						5/14/13	428.86		Static		BW, 2015a
						6/25/13	428.86		Static		BW, 2015a
						8/1/13	428.94		Static		BW, 2015a
						10/28/13	429.63		Static		BW, 2015a
						1/28/14		432.11	Static	2728.65	Sierrita
						2/24/14		422.09	Static	2738.67	Sierrita
						3/24/14		435.40	Static	2725.36	Sierrita
						4/25/14		437.29	Static	2723.47	Sierrita
						5/30/14		437.35	Static	2723.41	Sierrita
						6/25/15		443.59	Static	2717.17	Sierrita
						7/18/15		443.60	Static	2717.16	Sierrita
						10/7/15		444.35	Static	2716.41	Sierrita
						1/12/16		444.90	Static	2715.86	Sierrita
						4/29/16		445.02	Static	2715.74	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-18	545561	Sierrita	3525169.771	497374.056	3171.15	1/14/06	441.60		Static		BW, 2015a
						2/20/06	450.55		Dynamic		BW, 2015a
						3/14/06	450.40		Dynamic		BW, 2015a
						4/15/06	448.70		Dynamic		BW, 2015a
						5/14/06	446.80		Dynamic		BW, 2015a
						6/10/06	447.02		Dynamic		BW, 2015a
						7/16/06	448.21		Dynamic		BW, 2015a
						8/13/06	448.90		Dynamic		BW, 2015a
						9/16/06	448.98		Dynamic		BW, 2015a
						10/20/06	448.50		Dynamic		BW, 2015a
						11/10/06	449.35		Dynamic		BW, 2015a
						11/21/06		449.02		2722.13	Sierrita
						12/16/06	449.68		Dynamic		BW, 2015a
						1/17/07	444.50		Static		BW, 2015a
						2/24/07		449.55		2721.60	Sierrita
						2/24/07	449.55		Dynamic		BW, 2015a
						3/19/07	448.80		Dynamic		BW, 2015a
						4/24/07	447.80		Dynamic		BW, 2015a
						5/29/07	447.19		Dynamic		BW, 2015a
						6/22/07	446.50		Dynamic		BW, 2015a
						7/21/07		446.35		2724.80	Sierrita
						8/29/07	446.40		Dynamic		BW, 2015a
						10/16/07		445.25		2725.90	Sierrita
						11/28/07	445.00		Dynamic		BW, 2015a
						1/19/08		446.75		2724.40	Sierrita
						1/29/08	446.75		Dynamic		BW, 2015a
						2/28/08	447.00		Dynamic		BW, 2015a
						3/31/08	447.35		Dynamic		BW, 2015a
						4/21/08		447.48		2723.67	Sierrita
						4/30/08	447.48		Dynamic		BW, 2015a
						5/27/08	447.80		Dynamic		BW, 2015a
						6/30/08	447.47		Dynamic		BW, 2015a
						7/29/08		447.00		2724.15	Sierrita
						7/29/08	447.00		Dynamic		BW, 2015a
						8/29/08	446.80		Dynamic		BW, 2015a
						9/29/08	446.36		Dynamic		BW, 2015a
						10/24/08		446.30		2724.85	Sierrita
						10/24/08	446.30		Dynamic		BW, 2015a
						1/29/09		447		2724.15	Sierrita
						3/10/09	441.50		Static		BW, 2015a
						5/13/09		441.50		2729.65	Sierrita
						5/13/09	447.00		Dynamic		BW, 2015a
						12/15/09	447.20		Dynamic		BW, 2015a
						4/12/10		442.94		2728.21	Sierrita
						3/9/11	436.89		Dynamic		BW, 2015a
						4/14/11	432.82		Static		BW, 2015a
						6/29/11		435.35		2735.80	Sierrita
						6/29/11	435.35		Static		BW, 2015a
						7/12/11	435.16		Static		BW, 2015a
						8/25/11	435.50		Static		BW, 2015a
						12/29/11	434.90		Static		BW, 2015a
						1/26/12	436.09		Static		BW, 2015a
						2/28/12	436.22		Static		BW, 2015a
						3/29/12	436.47		Static		BW, 2015a
						6/27/12		436.97		2734.18	Sierrita
						6/27/12	436.97		Static		BW, 2015a
						7/31/12	437.20		Static		BW, 2015a
						8/22/12	437.68		Static		BW, 2015a
						9/26/12	438.78		Static		BW, 2015a
						10/26/12	439.56		Static		BW, 2015a
						11/27/12	440.41		Static		BW, 2015a
						5/14/13		443.11	Static	2728.04	Sierrita
						5/14/13	443.11		Static		BW, 2015a
						6/25/13	443.11		Static		BW, 2015a
						8/1/13	442.87		Static		BW, 2015a
						10/28/13	441.41		Static		BW, 2015a
						1/28/14		447.78	Static	2723.37	Sierrita
						2/24/14		449.75	Static	2721.40	Sierrita
						3/24/14		451.75	Static	2719.40	Sierrita
						4/25/14		453.68	Static	2717.47	Sierrita
						5/30/14		453.70	Static	2717.45	Sierrita
						6/25/15		UTM	Static	NA	Sierrita
						10/7/15		UTM	Static	NA	Sierrita
						1/12/16		461.82	Static	2709.33	Sierrita
						4/29/16		461.72	Static	2709.43	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-19	545562	Sierrita	3525343.392	497373.630	3155.39	1/14/06	449.07		Dynamic		BW, 2015a
						2/20/06	447.90		Dynamic		BW, 2015a
						3/14/06	448.30		Dynamic		BW, 2015a
						4/15/06	449.90		Dynamic		BW, 2015a
						5/14/06	444.50		Dynamic		BW, 2015a
						6/10/06	445.36		Dynamic		BW, 2015a
						7/16/06	447.60		Dynamic		BW, 2015a
						8/13/06	447.80		Dynamic		BW, 2015a
						9/16/06	447.38		Dynamic		BW, 2015a
						10/20/06	448.80		Dynamic		BW, 2015a
						11/11/06	418.60		Static		BW, 2015a
						11/21/06		418.60		2736.79	Sierrita
						12/16/06	448.60		Dynamic		BW, 2015a
						1/29/07	448.65		Dynamic		BW, 2015a
						2/23/07		444.65		2710.74	Sierrita
						2/23/07	444.65		Dynamic		BW, 2015a
						3/16/07	443.38		Dynamic		BW, 2015a
						4/24/07	441.30		Dynamic		BW, 2015a
						5/29/07	433.70		Dynamic		BW, 2015a
						6/22/07	432.95		Dynamic		BW, 2015a
						7/26/07		435.85		2719.54	Sierrita
						8/29/07	435.05		Dynamic		BW, 2015a
						11/29/07	450.52		Dynamic		BW, 2015a
						1/29/08		451.28		2704.11	Sierrita
						1/29/08	451.28		Dynamic		BW, 2015a
						2/28/08	451.22		Dynamic		BW, 2015a
						3/31/08	452.19		Dynamic		BW, 2015a
						4/21/08		452.00		2703.39	Sierrita
						4/30/08	452.00		Dynamic		BW, 2015a
						5/27/08	452.45		Dynamic		BW, 2015a
						6/30/08	451.40		Dynamic		BW, 2015a
						7/29/08		451.88		2703.51	Sierrita
						7/29/08	451.88		Dynamic		BW, 2015a
						8/29/08	450.25		Dynamic		BW, 2015a
						9/29/08	450.35		Dynamic		BW, 2015a
						10/24/08		451.08		2704.31	Sierrita
						10/24/08	451.08		Dynamic		BW, 2015a
						1/29/09		451		2704.39	Sierrita
						3/10/09	413.90		Static		BW, 2015a
						5/13/09		413.90		2741.49	Sierrita
						5/13/09	450.00		Dynamic		BW, 2015a
						12/15/09	448.30		Dynamic		BW, 2015a
						4/12/10		445.24		2710.15	Sierrita
						3/9/11	437.57		Dynamic		BW, 2015a
						4/14/11	407.82		Static		BW, 2015a
						5/11/11		436.15		2719.24	Sierrita
						5/11/11	436.15		Dynamic		BW, 2015a
						6/29/11	430.75		Dynamic		BW, 2015a
						7/12/11	407.21		Static		BW, 2015a
						8/25/11	399.60				BW, 2015a
						12/29/11	433.09		Dynamic		BW, 2015a
						1/26/12	433.88		Dynamic		BW, 2015a
						2/28/12	408.38		Static		BW, 2015a
						3/29/12	434.42		Dynamic		BW, 2015a
						5/22/12		432.62		2722.77	Sierrita
						5/22/12	432.62		Dynamic		BW, 2015a
						6/27/12	409.19		Static		BW, 2015a
						8/22/12	409.73		Static		BW, 2015a
						9/26/12	435.37		Dynamic		BW, 2015a
						10/26/12	411.86		Static		BW, 2015a
						11/27/12	437.02		Dynamic		BW, 2015a
						5/14/13		439.33	Dynamic	2716.06	Sierrita
						6/25/13	415.12		Static		BW, 2015a
						7/31/13	438.92		Dynamic		BW, 2015a
						8/1/13	415.19		Static		BW, 2015a
						10/28/13	416.00		Static		BW, 2015a
						11/28/13	468.62		Dynamic		BW, 2015a
						1/28/14		465.41	Dynamic	2689.98	Sierrita
						1/28/14	465.41		Dynamic		BW, 2015a
						2/24/14	422.21		Static		BW, 2015a
						2/25/14		422.21	Static	2733.18	Sierrita
						3/24/14		469.27	Dynamic	2686.12	Sierrita
						3/31/14	469.27		Dynamic		BW, 2015a
						4/28/14		425.55	Dynamic	2729.84	Sierrita
						5/30/14		469.21	Dynamic	2686.18	Sierrita
						5/30/14	469.21		Dynamic		BW, 2015a
						6/9/14		473.38	Dynamic	2682.01	Sierrita
						6/9/14	473.38		Dynamic		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-19	545562	Sierrita	3525343.392	497373.630	3155.39	7/7/14		474.40	Dynamic	2680.99	Sierrita
						7/7/14	473.57		Dynamic		BW, 2015a
						7/31/14		473.70	Dynamic	2681.69	Sierrita
						7/31/14	473.70		Dynamic		BW, 2015a
						8/27/14		428.00	Static	2727.39	Sierrita
						8/27/14	428.00		Static		BW, 2015a
						10/1/14		475.80	Dynamic	2679.59	Sierrita
						10/1/14	474.97		Dynamic		BW, 2015a
						11/4/14		475.50	Dynamic	2679.89	Sierrita
						11/4/14	474.67		Dynamic		BW, 2015a
						12/2/14		476.05	Dynamic	2679.34	Sierrita
						12/2/14	475.22		Dynamic		BW, 2015a
						4/9/15		482.20	Dynamic	2673.19	Sierrita
						5/2/15		488.30	Dynamic	2667.09	Sierrita
						6/11/15		431.40	Static	2723.99	Sierrita
						7/18/15		435.95	Static	2719.44	Sierrita
						10/7/15		439.15	Static	2716.24	Sierrita
						11/4/15		504.00	Dynamic	2651.39	Sierrita
						12/9/15		439.95	Static	2715.44	Sierrita
						1/12/16		507.40	Dynamic	2647.99	Sierrita
						4/29/16		435.95	Static	2719.44	Sierrita
IW-20	545563	Sierrita	3525568.770	497364.739	3164.21	1/14/06	450.32		Dynamic		BW, 2015a
						2/20/06	451.65		Dynamic		BW, 2015a
						3/14/06	453.50		Dynamic		BW, 2015a
						4/15/06	450.23		Dynamic		BW, 2015a
						5/14/06	450.33		Dynamic		BW, 2015a
						6/10/06	450.60		Dynamic		BW, 2015a
						7/16/06	442.80		Dynamic		BW, 2015a
						8/13/06	450.55		Dynamic		BW, 2015a
						9/16/06	435.70		Dynamic		BW, 2015a
						10/20/06	441.60		Dynamic		BW, 2015a
						11/11/06	421.25		Static		BW, 2015a
						11/21/06		421.25		2742.96	Sierrita
						12/16/06	449.60		Dynamic		BW, 2015a
						1/29/07		445.30		2718.91	Sierrita
						1/29/07	445.30		Dynamic		BW, 2015a
						3/16/07	417.72		Static		BW, 2015a
						4/24/07	428.00		Dynamic		BW, 2015a
						5/29/07	427.60		Dynamic		BW, 2015a
						6/22/07	427.20		Dynamic		BW, 2015a
						7/26/07		426.21		2738.00	Sierrita
						8/29/07	447.90		Dynamic		BW, 2015a
						10/16/07		424.15		2740.06	Sierrita
						11/29/07	423.30		Dynamic		BW, 2015a
						1/29/08		424.65		2739.56	Sierrita
						1/29/08	424.65		Dynamic		BW, 2015a
						2/28/08	424.68		Dynamic		BW, 2015a
						3/31/08	425.05		Dynamic		BW, 2015a
						4/21/08		425.15		2739.06	Sierrita
						4/30/08	425.15		Dynamic		BW, 2015a
						5/27/08	425.18		Dynamic		BW, 2015a
						6/30/08	423.04		Dynamic		BW, 2015a
						7/29/08		422.99		2741.22	Sierrita
						7/29/08	422.99		Dynamic		BW, 2015a
						8/29/08	424.44		Dynamic		BW, 2015a
						9/29/08	424.04		Dynamic		BW, 2015a
						10/24/08		424.14		2740.07	Sierrita
						10/24/08	424.14		Dynamic		BW, 2015a
						1/29/09		442		2722.21	Sierrita
						3/10/09	414.00		Static		BW, 2015a
						5/13/09		414.00		2750.21	Sierrita
						5/13/09	423.00		Dynamic		BW, 2015a
						12/15/09	418.80		Dynamic		BW, 2015a
						4/29/10		418.07		2746.14	Sierrita
						3/9/11	412.78		Dynamic		BW, 2015a
						4/14/11	407.11		Static		BW, 2015a
						5/11/11		413.15		2751.06	Sierrita
						5/11/11	413.15		Dynamic		BW, 2015a
						6/29/11	412.53		Dynamic		BW, 2015a
						7/12/11	406.25		Static		BW, 2015a
						8/25/11	412.15		Dynamic		BW, 2015a
						12/29/11	412.80		Dynamic		BW, 2015a
						1/26/12	406.99		Static		BW, 2015a
						2/28/12	408.09		Static		BW, 2015a
						3/29/12	414.89		Dynamic		BW, 2015a
						6/20/12		414.50		2749.71	Sierrita
						6/27/12	407.99		Static		BW, 2015a
						8/22/12	409.11		Static		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-20	545563	Sierrita	3525568.770	497364.739	3164.21	9/26/12	419.49		Dynamic		BW, 2015a
						10/26/12	411.89		Static		BW, 2015a
						11/27/12	419.84		Dynamic		BW, 2015a
						6/17/13		417.26	Dynamic	2746.95	Sierrita
						6/17/13	417.26		Dynamic		BW, 2015a
						6/25/13	413.74		Static		BW, 2015a
						8/1/13	415.77		Static		BW, 2015a
						9/30/13	421.16		Dynamic		BW, 2015a
						10/28/13	413.71		Static		BW, 2015a
						11/28/13	421.93		Dynamic		BW, 2015a
						12/9/13	417.48		Static		BW, 2015a
						1/28/14		424.25	Dynamic	2739.96	Sierrita
						1/28/14	424.25		Dynamic		BW, 2015a
						2/24/14	420.71		Static		BW, 2015a
						2/25/14		420.71	Static	2743.50	Sierrita
						3/24/14		427.83	Dynamic	2736.38	Sierrita
						3/31/14	427.83		Dynamic		BW, 2015a
						4/28/14		421.94	Dynamic	2742.27	Sierrita
						5/30/14		427.89	Dynamic	2736.32	Sierrita
						5/30/14	427.89		Dynamic		BW, 2015a
						6/9/14		429.20	Dynamic	2735.01	Sierrita
						6/9/14	429.20		Dynamic		BW, 2015a
						7/7/14		430.10	Dynamic	2734.11	Sierrita
						7/7/14	429.77		Dynamic		BW, 2015a
						7/31/14		430.00	Dynamic	2734.21	Sierrita
						7/31/14	430.00		Dynamic		BW, 2015a
						8/27/14		424.80	Static	2739.41	Sierrita
						8/27/14	424.80		Static		BW, 2015a
						10/1/14		432.80	Dynamic	2731.41	Sierrita
						10/1/14	432.47		Dynamic		BW, 2015a
						11/4/14		432.90	Dynamic	2731.31	Sierrita
						11/4/14	432.57		Dynamic		BW, 2015a
						12/2/14		435.80	Dynamic	2728.41	Sierrita
						12/2/14	435.47		Dynamic		BW, 2015a
						4/9/15		431.30	Static	2732.91	Sierrita
						5/2/15		431.75	Static	2732.46	Sierrita
						6/11/15		430.80	Static	2733.41	Sierrita
						7/18/15		434.65	Static	2729.56	Sierrita
						10/7/15		437.70	Static	2726.51	Sierrita
						11/4/15		437.80	Static	2726.41	Sierrita
						12/9/15		438.60	Static	2725.61	Sierrita
						1/12/16		439.80	Static	2724.41	Sierrita
						4/29/16		438.88	Static	2725.33	Sierrita
IW-21	545664	Sierrita	3525773.266	497374.585	3171.37	1/14/06	452.50		Dynamic		BW, 2015a
						2/20/06	455.75		Dynamic		BW, 2015a
						3/14/06	452.00		Dynamic		BW, 2015a
						4/15/06	453.20		Dynamic		BW, 2015a
						5/14/06	447.90		Dynamic		BW, 2015a
						6/10/06	448.00		Dynamic		BW, 2015a
						7/16/06	450.16		Dynamic		BW, 2015a
						8/13/06	450.10		Dynamic		BW, 2015a
						9/16/06	449.10		Dynamic		BW, 2015a
						10/20/06	448.28		Dynamic		BW, 2015a
						11/11/06	424.80		Static		BW, 2015a
						11/21/06		424.80		2746.57	Sierrita
						12/16/06	450.70		Dynamic		BW, 2015a
						1/29/07	451.68		Dynamic		BW, 2015a
						2/23/07		449.65		2721.72	Sierrita
						2/23/07	449.65		Dynamic		BW, 2015a
						3/16/07	448.68		Dynamic		BW, 2015a
						4/24/07	447.70		Dynamic		BW, 2015a
						5/29/07	446.36		Dynamic		BW, 2015a
						6/22/07	444.15		Dynamic		BW, 2015a
						7/26/07		454.04		2717.33	Sierrita
						8/29/07	443.35		Dynamic		BW, 2015a
						10/16/07		442.10		2729.27	Sierrita
						11/29/07	441.00		Dynamic		BW, 2015a
						1/29/08		441.68		2729.69	Sierrita
						1/29/08	441.68		Dynamic		BW, 2015a
						2/28/08	441.61		Dynamic		BW, 2015a
						3/31/08	442.00		Dynamic		BW, 2015a
						4/21/08		441.50		2729.87	Sierrita
						4/30/08	441.50		Dynamic		BW, 2015a
						5/27/08	439.42		Dynamic		BW, 2015a
						7/29/08		454.00		2717.37	Sierrita
						7/29/08	454.00		Dynamic		BW, 2015a
						8/29/08	455.94		Dynamic		BW, 2015a
						9/29/08	456.00		Dynamic		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-21	545664	Sierrita	3525773.266	497374.585	3171.37	10/24/08		443.08		2728.29	Sierrita
						10/24/08	455.89		Dynamic		BW, 2015a
						1/29/09		484		2687.37	Sierrita
						3/10/09	415.60		Static		BW, 2015a
						5/13/09		415.60		2755.77	Sierrita
						5/13/09	452.00		Dynamic		BW, 2015a
						12/15/09	447.50		Dynamic		BW, 2015a
						5/11/11		736.00		2435.37	Sierrita
						4/15/13		612.58	Dynamic	2558.79	Sierrita
						1/28/14		Obstructed		NA	Sierrita
						3/24/14		Obstructed		NA	Sierrita
						4/25/14		Obstructed		NA	Sierrita
						5/30/14		Obstructed		NA	Sierrita
						6/9/14		Obstructed		NA	Sierrita
						7/7/14		Obstructed		NA	Sierrita
						7/31/14		Obstructed		NA	Sierrita
						8/27/14		Obstructed		NA	Sierrita
						10/1/14		Obstructed		NA	Sierrita
						11/4/14		Obstructed		NA	Sierrita
						12/2/14		Obstructed		NA	Sierrita
						12/2/14	506.93		Dynamic		BW, 2015a
						4/9/15		504.10	Dynamic	2667.27	Sierrita
						5/2/15		501.80	Dynamic	2669.57	Sierrita
						6/11/15		433.70	Static	2737.67	Sierrita
						7/18/15		498.30	Dynamic	2673.07	Sierrita
						10/7/15		512.00	Dynamic	2659.37	Sierrita
						11/4/15		510.90	Dynamic	2660.47	Sierrita
						12/9/15		502.70	Dynamic	2668.67	Sierrita
						1/12/16		UTM	Dynamic	NA	Sierrita
						4/29/16		510.10	Dynamic	2661.27	Sierrita
IW-22	200554	Sierrita	3523273.592	497369.590	3128.25	1/14/06	469.88		Dynamic		BW, 2015a
						2/20/06	470.92		Dynamic		BW, 2015a
						3/14/06	390.50		Static		BW, 2015a
						4/15/06	477.00		Dynamic		BW, 2015a
						5/14/06	462.00		Dynamic		BW, 2015a
						6/10/06	461.37		Dynamic		BW, 2015a
						7/16/06	460.80		Dynamic		BW, 2015a
						8/13/06	464.28		Dynamic		BW, 2015a
						9/16/06	466.65		Dynamic		BW, 2015a
						10/20/06	465.25		Dynamic		BW, 2015a
						11/11/06	434.75		Dynamic		BW, 2015a
						11/21/06		434.75		2693.50	Sierrita
						12/16/06	432.65		Dynamic		BW, 2015a
						1/29/07	439.45		Dynamic		BW, 2015a
						2/24/07		433.58		2694.67	Sierrita
						2/24/07	433.58		Dynamic		BW, 2015a
						3/17/07	434.90		Dynamic		BW, 2015a
						4/24/07	435.60		Dynamic		BW, 2015a
						5/30/07	435.10		Dynamic		BW, 2015a
						6/22/07	438.55		Dynamic		BW, 2015a
						7/31/07		430.00		2698.25	Sierrita
						8/29/07	436.75		Dynamic		BW, 2015a
						10/18/07		435.75		2692.50	Sierrita
						11/29/07	436.90		Dynamic		BW, 2015a
						1/29/08		438.50		2689.75	Sierrita
						1/29/08	438.50		Dynamic		BW, 2015a
						2/29/08	437.50		Dynamic		BW, 2015a
						3/31/08	436.90		Dynamic		BW, 2015a
						4/25/08		439.30		2688.95	Sierrita
						4/30/08	439.30		Dynamic		BW, 2015a
						5/27/08	439.00		Dynamic		BW, 2015a
						6/30/08	441.00		Dynamic		BW, 2015a
						7/29/08		442.08		2686.17	Sierrita
						7/29/08	442.08		Dynamic		BW, 2015a
						8/29/08	442.80		Dynamic		BW, 2015a
						9/29/08	443.06		Dynamic		BW, 2015a
						10/24/08		455.89		2672.36	Sierrita
						10/24/08	443.08		Dynamic		BW, 2015a
						1/21/09		442		2686.25	Sierrita
						3/10/09	384.00		Static		BW, 2015a
						5/13/09		384.00		2744.25	Sierrita
						5/13/09	443.00		Dynamic		BW, 2015a
						12/15/09	438.00		Dynamic		BW, 2015a
						4/12/10		434.62		2693.63	Sierrita
						3/9/11	424.56		Dynamic		BW, 2015a
						4/15/11	378.72		Static		BW, 2015a
						5/11/11		431.21		2697.04	Sierrita
						5/11/11	431.21		Dynamic		BW, 2015a

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-22	200554	Sierrita	3523273.592	497369.590	3128.25	6/27/11	430.12		Dynamic		BW, 2015a
						7/12/11	369.50		Static		BW, 2015a
						8/23/11	433.80		Dynamic		BW, 2015a
						12/29/11	402.80		Dynamic		BW, 2015a
						1/26/12	418.31		Dynamic		BW, 2015a
						3/29/12	452.67		Dynamic		BW, 2015a
						5/22/12		448.78		2679.47	Sierrita
						5/22/12	448.78		Dynamic		BW, 2015a
						6/27/12	382.79		Static		BW, 2015a
						7/31/12	442.68		Dynamic		BW, 2015a
						8/22/12	400.60		Static		BW, 2015a
						9/26/12	462.71		Dynamic		BW, 2015a
						10/26/12	408.11		Static		BW, 2015a
						11/27/12	460.35		Dynamic		BW, 2015a
						4/15/13		459.72	Dynamic	2668.53	Sierrita
						6/25/13	408.44		Static		BW, 2015a
						7/31/13	467.14		Dynamic		BW, 2015a
						8/1/13	408.82		Static		BW, 2015a
						9/30/13	467.52		Dynamic		BW, 2015a
						10/29/13	415.89		Static		BW, 2015a
						11/28/13	468.90		Dynamic		BW, 2015a
						12/9/13	414.17		Static		BW, 2015a
						1/28/14	467.14		Dynamic		BW, 2015a
						1/29/14		467.14	Dynamic	2661.11	Sierrita
						2/24/14	414.41		Static		BW, 2015a
						2/25/14		414.41	Static	2713.84	Sierrita
						3/24/14		471.95	Dynamic	2656.30	Sierrita
						3/31/14	471.95		Dynamic		BW, 2015a
						4/28/14		411.44		2716.81	Sierrita
						5/30/14		466.14	Dynamic	2662.11	Sierrita
						5/30/14	466.14		Dynamic		BW, 2015a
						6/9/14		461.20	Dynamic	2667.05	Sierrita
						6/9/14	461.20		Dynamic		BW, 2015a
						7/7/14		459.10	Dynamic	2669.15	Sierrita
						7/7/14	458.43		Dynamic		BW, 2015a
						7/31/14		452.40	Dynamic	2675.85	Sierrita
						7/31/14	452.40		Dynamic		BW, 2015a
						8/27/14		397.80	Static	2730.45	Sierrita
						8/27/14	397.80		Static		BW, 2015a
						10/1/14		461.00	Dynamic	2667.25	Sierrita
						10/1/14	460.33		Dynamic		BW, 2015a
						11/4/14		452.80	Dynamic	2675.45	Sierrita
						11/4/14	452.13		Dynamic		BW, 2015a
						12/2/14		453.20	Dynamic	2675.05	Sierrita
						12/2/14	452.53		Dynamic		BW, 2015a
						4/9/15		451.70	Dynamic	2676.55	Sierrita
						5/2/15		400.60	Static	2727.65	Sierrita
						6/11/15		400.10	Static	2728.15	Sierrita
						7/8/15		462.90	Dynamic	2665.35	Sierrita
						10/7/15		475.40	Dynamic	2652.85	Sierrita
						11/4/15		464.55	Dynamic	2663.70	Sierrita
						12/9/15		472.90	Dynamic	2655.35	Sierrita
						1/12/16		470.30	Dynamic	2657.95	Sierrita
						4/29/16		456.20	Dynamic	2672.05	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-23	200555	Sierrita	3522970.788	497369.237	3128.53	1/14/06	464.40		Dynamic		BW, 2015a
						3/14/06	377.75		Static		BW, 2015a
						4/15/06	504.00		Dynamic		BW, 2015a
						5/14/06	472.25		Dynamic		BW, 2015a
						6/10/06	490.55		Dynamic		BW, 2015a
						7/16/06	470.30		Dynamic		BW, 2015a
						11/11/06	544.50		Dynamic		BW, 2015a
						12/16/06		544.50		2584.03	Sierrita
						12/16/06	493.02		Dynamic		BW, 2015a
						1/29/07	497.00		Dynamic		BW, 2015a
						2/24/07		499.20		2629.33	Sierrita
						2/24/07	499.20		Dynamic		BW, 2015a
						3/17/07	496.00		Dynamic		BW, 2015a
						4/24/07	491.30		Dynamic		BW, 2015a
						5/30/07	497.70		Dynamic		BW, 2015a
						6/26/07	503.30		Dynamic		BW, 2015a
						7/31/07		500.00		2628.53	Sierrita
						8/29/07	500.50		Dynamic		BW, 2015a
						10/18/07		518.95		2609.58	Sierrita
						3/10/09	375.00		Static		BW, 2015a
						5/13/09		375.00		2753.53	Sierrita
						5/13/09	510.00		Dynamic		BW, 2015a
						4/12/10		538.78		2589.75	Sierrita
						3/9/11	384.85				BW, 2015a
						4/15/11	369.88		Static		BW, 2015a
						5/11/11		516.15		2612.38	Sierrita
						5/11/11	516.15		Dynamic		BW, 2015a
						6/27/11	525.00		Dynamic		BW, 2015a
						7/12/11	372.42		Static		BW, 2015a
						8/23/11	538.30		Dynamic		BW, 2015a
						12/29/11	534.50		Dynamic		BW, 2015a
						1/26/12	529.71		Dynamic		BW, 2015a
						3/29/12	546.38		Dynamic		BW, 2015a
						5/22/12		523.21		2605.32	Sierrita
						5/22/12	523.21		Dynamic		BW, 2015a
						8/22/12	381.70		Static		BW, 2015a
						9/26/12	535.61		Dynamic		BW, 2015a
						10/26/12	384.71		Static		BW, 2015a
						11/27/12	483.41		Dynamic		BW, 2015a
						4/15/13		482.11	Dynamic	2646.42	Sierrita
						6/25/13	385.08		Static		BW, 2015a
						8/1/13	385.44		Static		BW, 2015a
						9/30/13	426.62		Dynamic		BW, 2015a
						10/30/13	394.39		Static		BW, 2015a
						11/28/13	428.20		Dynamic		BW, 2015a
						12/9/13	387.59		Static		BW, 2015a
						1/28/14	528.47		Dynamic		BW, 2015a
						1/29/14		528.47	Dynamic	2600.06	Sierrita
						2/24/14	389.51		Static		BW, 2015a
						2/25/14		389.51	Static	2739.02	Sierrita
						3/24/14		Obstructed		NA	Sierrita
						4/28/14		385.17	Dynamic	2743.36	Sierrita
						5/30/14		519.31	Dynamic	2609.22	Sierrita
						5/30/14	519.31		Dynamic		BW, 2015a
						6/9/14		546.60	Dynamic	2581.93	Sierrita
						6/9/14	546.60		Dynamic		BW, 2015a
						7/6/14		546.60	Dynamic	2581.93	Sierrita
						7/6/14	545.73		Dynamic		BW, 2015a
						7/31/14		534.90	Dynamic	2593.63	Sierrita
						7/31/14	534.90		Dynamic		BW, 2015a
						8/27/14		Insufficient Flow		NA	Sierrita
						10/1/14		546.65	Dynamic	2581.88	Sierrita
						10/1/14	545.78		Dynamic		BW, 2015a
						11/4/14		525.20	Dynamic	2603.33	Sierrita
						11/4/14	524.33		Dynamic		BW, 2015a
						12/2/14		539.60	Dynamic	2588.93	Sierrita
						12/2/14	538.73		Dynamic		BW, 2015a
						4/9/15		471.70	Dynamic	2656.83	Sierrita
						5/2/15		484.70	Dynamic	2643.83	Sierrita
						6/11/15		379.95	Static	2748.58	Sierrita
						7/8/15		482.40	Dynamic	2646.13	Sierrita
						10/7/15		UTM	Dynamic	NA	Sierrita
						11/4/15		468.00	Dynamic	2660.53	Sierrita
						12/9/15		383.50	Static	2745.03	Sierrita
						1/12/16		UTM	Static	NA	Sierrita
						4/29/16		372.40	Static	2756.13	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-24	200556	Sierrita	3522633.594	497371.670	3113.29	1/14/06	416.70		Dynamic		BW, 2015a
						2/20/06	392.50		Dynamic		BW, 2015a
						3/14/06	353.90		Static		BW, 2015a
						4/15/06	495.72		Dynamic		BW, 2015a
						5/14/06	418.20		Dynamic		BW, 2015a
						6/10/06	446.65		Dynamic		BW, 2015a
						7/16/06	412.75		Dynamic		BW, 2015a
						8/13/06	477.00		Dynamic		BW, 2015a
						9/16/06	418.00		Dynamic		BW, 2015a
						10/20/06	545.50		Dynamic		BW, 2015a
						11/11/06	395.80		Dynamic		BW, 2015a
						3/3/07	344.00		Static		BW, 2015a
						5/30/07	353.50		Dynamic		BW, 2015a
						2/29/08	555.10		Dynamic		BW, 2015a
						3/31/08	525.25		Dynamic		BW, 2015a
						4/25/08		522.50		2590.79	Sierrita
						4/30/08	522.50		Dynamic		BW, 2015a
						5/27/08	433.30		Dynamic		BW, 2015a
						6/30/08	451.50		Dynamic		BW, 2015a
						7/29/08		452.50		2660.79	Sierrita
						7/29/08	452.50		Dynamic		BW, 2015a
						8/29/08	467.00		Dynamic		BW, 2015a
						8/29/08	467.66		Dynamic		BW, 2015a
						10/24/08		466.99		2646.30	Sierrita
						10/24/08	466.99		Dynamic		BW, 2015a
						3/10/09	348.00		Static		BW, 2015a
						5/13/09		348.00		2765.29	Sierrita
						5/13/09	526.50		Dynamic		BW, 2015a
						4/12/10		522.90		2590.39	Sierrita
						3/24/11	480.11		Dynamic		BW, 2015a
						4/15/11	345.38		Static		BW, 2015a
						5/11/11		456.05		2657.24	Sierrita
						5/11/11	456.05		Dynamic		BW, 2015a
						6/27/11	446.19		Dynamic		BW, 2015a
						7/12/11	346.60		Static		BW, 2015a
						8/23/11	426.80		Dynamic		BW, 2015a
						12/29/11	458.40		Dynamic		BW, 2015a
						1/26/12	478.61		Dynamic		BW, 2015a
						2/28/12	349.58		Static		BW, 2015a
						5/22/12		512.88		2600.41	Sierrita
						5/22/12	512.88		Dynamic		BW, 2015a
						6/27/12	354.00		Static		BW, 2015a
						7/31/12	439.87		Dynamic		BW, 2015a
						8/22/12	355.46		Static		BW, 2015a
						9/28/12	441.60		Dynamic		BW, 2015a
						10/26/12	355.87		Static		BW, 2015a
						11/28/12	543.91		Dynamic		BW, 2015a
						4/15/13		533.21	Dynamic	2580.08	Sierrita
						6/25/13	356.47		Static		BW, 2015a
						7/31/13	544.16		Dynamic		BW, 2015a
						8/1/13	355.91		Dynamic		BW, 2015a
						9/30/13	544.71		Dynamic		BW, 2015a
						10/30/13	359.61		Static		BW, 2015a
						11/28/13	536.89		Dynamic		BW, 2015a
						1/28/14		522.00	Dynamic	2591.29	Sierrita
						1/28/14	522.00		Dynamic		BW, 2015a
						2/24/14	358.72		Static		BW, 2015a
						2/25/14		358.72	Static	2754.57	Sierrita
						3/25/14		517.78	Dynamic	2595.51	Sierrita
						3/31/14	517.78		Dynamic		BW, 2015a
						4/28/14		356.88	Dynamic	2756.41	Sierrita
						5/30/14		514.60	Dynamic	2598.69	Sierrita
						5/30/14	514.60		Dynamic		BW, 2015a
						6/9/14		499.00	Dynamic	2614.29	Sierrita
						6/9/14	499.00		Dynamic		BW, 2015a
						7/6/14		483.40	Dynamic	2629.89	Sierrita
						7/6/14	482.90		Dynamic		BW, 2015a
						7/31/14		457.10	Dynamic	2656.19	Sierrita
						7/31/14	457.10		Dynamic		BW, 2015a
						8/27/14		355.00	Static	2758.29	Sierrita
						8/27/14	355.00		Static		BW, 2015a
						10/1/14		458.25	Dynamic	2655.04	Sierrita
						10/1/14	457.75		Dynamic		BW, 2015a
						11/4/14		475.15	Dynamic	2638.14	Sierrita
						11/4/14	474.65		Dynamic		BW, 2015a
						12/2/14		466.90	Dynamic	2646.39	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-24	200556	Sierrita	3522633.594	497371.670	3113.29	12/2/14	466.40		Dynamic		BW, 2015a
						4/9/15		399.90	Dynamic	2713.39	Sierrita
						5/2/15		407.60	Dynamic	2705.69	Sierrita
						6/11/15		359.80	Static	2753.49	Sierrita
						7/8/15		404.85	Dynamic	2708.44	Sierrita
						10/7/15		403.40	Dynamic	2709.89	Sierrita
						11/4/15		399.65	Dynamic	2713.64	Sierrita
						12/9/15		409.25	Dynamic	2704.04	Sierrita
						1/12/16		416.10	Dynamic	2697.19	Sierrita
						4/29/16		389.90	Dynamic	2723.39	Sierrita
IW-25	219596	Sierrita	3521725.393	497631.672	3091.66	10/28/10	351.00		Static		BW, 2015a
						10/28/10	375.00		Dynamic		BW, 2015a
						5/21/12	400.85		Dynamic		BW, 2015a
						6/30/12	380.50		Static		BW, 2015a
						7/31/12	465.37		Dynamic		BW, 2015a
						8/25/12	380.20		Static		BW, 2015a
						9/28/12	462.88		Dynamic		BW, 2015a
						11/28/12	427.43		Static		BW, 2015a
						4/15/13		422.52	Dynamic	2669.14	Sierrita
						6/26/13	380.43		Static		BW, 2015a
						7/31/13	451.60		Dynamic		BW, 2015a
						8/1/13	378.56		Static		BW, 2015a
						9/30/13	451.58		Dynamic		BW, 2015a
						10/31/13	384.18		Static		BW, 2015a
						11/28/13	452.68		Dynamic		BW, 2015a
						12/9/13	388.78		Static		BW, 2015a
						1/28/14	447.14		Dynamic		BW, 2015a
						3/31/14	445.09		Dynamic		BW, 2015a
						5/30/14	442.11		Dynamic		BW, 2015a
						6/9/14		436.90	Dynamic	2654.76	Sierrita
						6/9/14	436.90		Dynamic		BW, 2015a
						7/6/14	434.97		Dynamic		BW, 2015a
						7/31/14	436.10		Dynamic		BW, 2015a
						8/27/14	379.50		Static		BW, 2015a
						10/1/14	442.32		Dynamic		BW, 2015a
						11/4/14	437.37		Dynamic		BW, 2015a
						12/2/14	440.87		Dynamic		BW, 2015a
						4/9/15		433.00	Dynamic	2658.66	Sierrita
						5/2/15		439.70	Dynamic	2651.96	Sierrita
						6/11/15		439.40	Dynamic	2652.26	Sierrita
						7/8/15		444.75	Dynamic	2646.91	Sierrita
						10/7/15		441.50	Dynamic	2650.16	Sierrita
						11/4/15		439.05	Dynamic	2652.61	Sierrita
						12/9/15		443.00	Dynamic	2648.66	Sierrita
						1/12/16		438.75	Dynamic	2652.91	Sierrita
						4/29/16		416.90	Dynamic	2674.76	Sierrita
IW-26	219143	Sierrita	3522307.296	497652.833	3100.03	10/10/10	361.00		Static		BW, 2015a
						10/10/10	394.00		Dynamic		BW, 2015a
						5/21/12	484.33		Dynamic		BW, 2015a
						6/30/12	376.70		Static		BW, 2015a
						7/31/12	487.67		Dynamic		BW, 2015a
						8/25/12	376.70		Static		BW, 2015a
						9/28/12	481.21		Dynamic		BW, 2015a
						11/28/12	493.38		Dynamic		BW, 2015a
						4/15/13		492.21	Dynamic	2607.82	Sierrita
						6/26/13	384.32		Static		BW, 2015a
						7/31/13	494.16		Dynamic		BW, 2015a
						8/1/13	383.28		Static		BW, 2015a
						9/30/13	494.24		Dynamic		BW, 2015a
						10/29/13	384.54		Static		BW, 2015a
						10/31/13	384.21		Static		BW, 2015a
						11/28/13	382.75		Static		BW, 2015a
						12/9/13	382.88		Static		BW, 2015a
						1/28/14	380.61		Static		BW, 2015a
						3/31/14	380.55		Static		BW, 2015a
						5/30/14	379.35		Static		BW, 2015a
						6/9/14		376.80	Static	2723.23	Sierrita
						6/9/14	376.80		Static		BW, 2015a
						7/6/14	378.29		Static		BW, 2015a
						7/31/14	377.60		Static		BW, 2015a
						8/27/14	377.60		Static		BW, 2015a
						10/1/14	377.69		Static		BW, 2015a
						11/4/14	377.89		Static		BW, 2015a
						12/2/14	379.19		Static		BW, 2015a
						4/9/15		432.60	Dynamic	2667.43	Sierrita
						5/2/15		436.70	Dynamic	2663.33	Sierrita
						6/11/15		439.30	Dynamic	2660.73	Sierrita
						7/8/15		441.60	Dynamic	2658.43	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-26	219143	Sierrita	3522307.296	497652.833	3100.03	10/7/15		442.95	Dynamic	2657.08	Sierrita
						11/4/15		441.10	Dynamic	2658.93	Sierrita
						12/9/15		445.15	Dynamic	2654.88	Sierrita
						1/12/16		443.85	Dynamic	2656.18	Sierrita
						4/29/16		428.00	Dynamic	2672.03	Sierrita
IW-27	219136	Sierrita	3522658.299	497602.9752	3120.33	12/3/10	378.50		Static		BW, 2015a
						12/3/10	393.30		Dynamic		BW, 2015a
						5/22/12	416.34		Dynamic		BW, 2015a
						10/30/13	395.56		Static		BW, 2015a
						11/28/13	395.04		Static		BW, 2015a
						12/9/13	395.21		Static		BW, 2015a
						1/28/14	394.70		Static		BW, 2015a
						2/24/14	418.11		Dynamic		BW, 2015a
						3/31/14	394.72		Static		BW, 2015a
						5/30/14	394.32		Static		BW, 2015a
						6/5/14		393.50	Static	2726.83	Sierrita
						6/5/14	393.50		Static		BW, 2015a
						7/6/14	392.32		Static		BW, 2015a
						7/31/14	392.50		Static		BW, 2015a
						8/27/14	392.70		Static		BW, 2015a
						10/1/14	393.02		Static		BW, 2015a
						11/4/14	455.07		Dynamic		BW, 2015a
						12/2/14	459.52		Dynamic		BW, 2015a
						4/9/15		457.85	Dynamic	2662.48	Sierrita
						5/2/15		466.20	Dynamic	2654.13	Sierrita
						6/11/15		471.10	Dynamic	2649.23	Sierrita
						7/8/15		468.55	Dynamic	2651.78	Sierrita
						10/7/15		468.00	Dynamic	2652.33	Sierrita
						11/4/15		458.95	Dynamic	2661.38	Sierrita
						12/9/15		470.00	Dynamic	2650.33	Sierrita
						1/12/16		473.25	Dynamic	2647.08	Sierrita
						4/29/16		458.80	Dynamic	2661.53	Sierrita
IW-28	219137	Sierrita	3523178.619	497650.404	3110.71	1/5/11	382.00		Static		BW, 2015a
						1/5/11	409.00		Dynamic		BW, 2015a
						5/22/12	439.61		Dynamic		BW, 2015a
						6/30/12	392.40		Static		BW, 2015a
						7/31/12	451.37		Dynamic		BW, 2015a
						8/25/12	392.40		Static		BW, 2015a
						9/28/12	449.60		Dynamic		BW, 2015a
						11/27/12	451.70		Dynamic		BW, 2015a
						4/15/13		447.89	Dynamic	2662.82	Sierrita
						6/26/13	403.12		Static		BW, 2015a
						7/31/13	453.58		Dynamic		BW, 2015a
						8/1/13	401.30		Static		BW, 2015a
						9/30/13	454.16		Dynamic		BW, 2015a
						10/31/13	405.26		Static		BW, 2015a
						11/28/13	442.66		Dynamic		BW, 2015a
						12/9/13	405.53		Static		BW, 2015a
						1/28/14	424.78		Dynamic		BW, 2015a
						2/24/14	405.49		Static		BW, 2015a
						3/31/14	439.97		Dynamic		BW, 2015a
						5/30/14	440.07		Dynamic		BW, 2015a
						6/9/14		434.70	Dynamic	2676.01	Sierrita
						6/9/14	434.70		Dynamic		BW, 2015a
						7/6/14	432.39		Dynamic		BW, 2015a
						7/31/14	431.80		Dynamic		BW, 2015a
						8/27/14	400.95		Static		BW, 2015a
						10/1/14	433.44		Dynamic		BW, 2015a
						11/4/14	433.39		Dynamic		BW, 2015a
						12/2/14	434.49		Dynamic		BW, 2015a
						4/9/15		434.70	Dynamic	2676.01	Sierrita
						5/2/15		434.50	Dynamic	2676.21	Sierrita
						6/11/15		434.50	Dynamic	2676.21	Sierrita
						7/8/15		437.10	Dynamic	2673.61	Sierrita
						10/7/15		443.25	Dynamic	2667.46	Sierrita
						11/4/15		441.50	Dynamic	2669.21	Sierrita
						12/9/15		444.20	Dynamic	2666.51	Sierrita
						1/12/16		441.50	Dynamic	2669.21	Sierrita
						4/29/16		435.45	Dynamic	2675.26	Sierrita

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-29	222865		No Survey Data	No Survey Data	3088.00	5/12/14		389.50	Static	2698.50	Sierrita
						5/13/14	389.75		Static		BW, 2015b
						8/27/14	394.7		Static		BW, 2015b
						4/9/15		436.10	Dynamic	2651.90	Sierrita
						5/2/15		437.85	Dynamic	2650.15	Sierrita
						6/11/15		437.80	Dynamic	2650.20	Sierrita
						7/18/15		437.60	Dynamic	2650.40	Sierrita
						10/7/15		408.50	Static	2679.50	Sierrita
						11/4/15		437.88	Dynamic	2650.12	Sierrita
						12/9/15		407.90	Static	2680.10	Sierrita
						1/12/16		UTM	Static	NA	Sierrita
						4/29/16		434.10	Dynamic	2653.90	Sierrita
M-5	87387	Sierrita	3530799.154	499640.485	2997.03	6/16/15		490.32	Static	2506.71	Sierrita
						11/17/15		494.45	Static	2502.58	
						6/15/16		494.60	Static	2502.43	Sierrita
M-8	87390	Sierrita	3529692.237	499658.916	2999.53	1/15/07		460.92		2538.61	Sierrita
						4/16/07		458.83		2540.70	
						7/10/07		462.57		2536.96	
						10/8/07		465.65		2533.88	
						1/9/08		464.68		2534.85	
						4/14/08		462.50		2537.03	
						7/25/08		466.18		2533.35	
						10/28/08		468.82		2530.71	
						1/20/09		466.25		2533.28	
						5/12/09		465.10		2534.43	
						11/5/09		465.60		2533.93	
						5/28/10		466.61		2532.92	
						10/21/10		471.61		2527.92	
						6/15/11		467.35		2532.18	
						11/17/11		471.23		2528.30	
						6/29/12		464.98		2534.55	
						10/29/12		472.66		2526.87	
						4/17/13		466.32		2533.21	
						5/21/13		464.70		2534.83	
						10/29/13		472.55		2526.98	
						3/12/14		472.63		2526.90	
						4/22/14		473.69		2525.84	
						5/8/14		473.53		2526.00	
						6/9/14		476.70	Static	2522.83	
						7/28/14		479.96		2519.57	
						8/7/14		480.13		2519.40	
						9/8/14		481.99	Static	2517.54	
						10/28/14		484.31		2515.22	
						11/4/14		484.66		2514.87	
						12/16/14		484.74	Static	2514.79	
						1/29/15		484.88	Static	2514.65	
						2/27/15		484.93	Static	2514.60	
						3/19/15		484.02	Static	2515.51	
						4/6/15		484.53	Static	2515.00	
						5/21/15		486.24	Static	2513.29	
						6/1/15		486.56	Static	2512.97	
						7/23/15		UTM	Static	NA	
						8/31/15		UTM	Static	NA	
						10/26/15		UTM	Static	NA	
						11/17/15		UTM	Static	NA	
						1/7/16		UTM	Static	NA	Sierrita
						2/9/16		UTM	Static	NA	Sierrita
						3/7/16		UTM	Static	NA	Sierrita
						6/8/16		UTM	Static	NA	Sierrita
						8/25/16		496.75	Static	2502.78	

TABLE 4
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Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
M-9	501652	Sierrita	3530303.954	499984.173	2973.81	7/18/06		442.70		2531.11	Sierrita
						1/15/07		445.76		2528.05	
						7/10/07		450.75		2523.06	
						10/8/07		453.15		2520.66	
						1/8/08		447.50		2526.31	
						4/14/08		448.50		2525.31	
						7/21/08		454.27		2519.54	
						10/28/08		457.72		2516.09	
						1/20/09		450.78		2523.03	
						5/13/09		452.00		2521.81	
						6/16/10		453.85		2519.96	
						6/2/11		452.35		2521.46	
						6/27/12		455.78		2518.03	
						5/1/13		473.80		2500.01	
						3/12/14		483.66		2490.15	
						4/22/14		464.39		2509.42	
						5/8/14		464.37		2509.44	
						6/9/14		457.78		2516.03	
						7/28/14		461.34		2512.47	
						8/7/14		462.06		2511.75	
						9/8/14		463.43	Static	2510.38	
						10/28/14		464.55		2509.26	
						11/4/14		466.10		2507.71	
						12/16/14		467.81	Static	2506.00	
						1/20/15		461.04	Static	2512.77	
						2/27/15		465.19	Static	2508.62	
						3/19/15		460.12	Static	2513.69	
						4/6/15		460.84	Static	2512.97	
						5/21/15		461.18	Static	2512.63	
						6/1/15		461.29	Static	2512.52	
						7/23/15		467.84	Static	2505.97	
						8/31/15		469.81	Static	2504.00	
						11/17/15		470.74	Static	2503.07	
						1/7/16		466.20	Static	2507.61	Sierrita
						2/9/16		465.51	Static	2508.30	Sierrita
						3/7/16		465.39	Static	2508.42	Sierrita
						4/25/16		466.80	Static	2507.01	Sierrita
						8/24/16		473.63	Static	2500.18	Sierrita
M-10	501653	Sierrita	3530143.114	499659.027	3005.68	7/18/06		472.72		2532.96	Sierrita
						1/15/07		473.65		2532.03	
						4/16/07		471.47		2534.21	
						7/10/07		477.16		2528.52	
						10/8/07		478.45		2527.23	
						1/8/08		477.60		2528.08	
						4/14/08		475.48		2530.20	
						7/21/08		480.15		2525.53	
						10/28/08		483.70		2521.98	
						1/20/09		475.85		2529.83	
						5/12/09		478.80		2526.88	
						11/5/09		481.20		2524.48	
						6/4/10		480.29		2525.39	
						10/21/10		486.40		2519.28	
						5/10/11		478.33		2527.35	
						11/16/11		484.66		2521.02	
						6/25/12		482.73		2522.95	
						10/29/12		486.64		2519.04	
						4/17/13		478.63		2527.05	
						10/29/13		486.07		2519.61	
						4/22/14		483.06	Static	2522.62	
						11/4/14		493.67	Static	2512.01	
						4/6/15		491.46	Static	2514.22	
						10/26/15		UTM	Static	NA	
						2/9/16		UTM	Static	NA	
						6/8/16		UTM	Static	NA	Sierrita
M-11	501654	Sierrita	3530757.848	500267.433	2938.82	6/16/15		433.11	Static	2505.71	Sierrita
						11/17/15		435.43	Static	2503.39	
						6/15/16		437.35	Static	2501.47	Sierrita
M-13	508428	Sierrita	3530907.067	498739.360	3077.00	6/18/15		569.71	Static	2507.29	Sierrita
						11/17/15		574.92	Static	2502.08	
						6/15/16		573.72	Static	2503.28	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
M-20	906595	TBPI	3528491.771	499082.070	3054.00	7/18/06		484.18		2569.82	Sierrita
						1/15/07		489.14		2564.86	
						7/10/07		486.70		2567.30	
						7/12/07		493.26		2560.74	
						1/9/08		495.80		2558.20	
						4/14/08		494.22		2559.78	
						7/25/08		493.70		2560.30	
						10/28/08		498.00		2556.00	
						1/20/09		497.75		2556.25	
						5/12/09		496.80		2557.20	
						5/28/10		498.51		2555.49	
						5/9/11		499.14		2554.86	
						6/26/12		500.50		2553.50	
						4/23/13		499.65		2554.35	
						4/22/14		511.42	Static	2542.58	
						4/27/15		529.31	Static	2524.69	
						11/18/15		536.18	Static	2517.82	
						4/26/16		538.43	Static	2515.57	Sierrita
MC-1	221660	Sierrita	3525205.054	498913.093	3038.621	5/22/13	418.97		Static		BW, 2015a
						5/22/13	435.55		Dynamic		BW, 2015a
						1/15/14		440.93	Dynamic	2597.69	Sierrita
						1/15/14	440.93		Dynamic		BW, 2015a
						1/22/14		437.02	Dynamic	2601.60	Sierrita
						1/22/14	437.02		Dynamic		BW, 2015a
						1/28/14	442.57		Dynamic		BW, 2015a
						1/29/14		442.57	Dynamic	2596.05	Sierrita
						2/5/14	443.86		Dynamic		BW, 2015a
						2/12/14	444.84		Dynamic		BW, 2015a
						3/13/14		447.98	Dynamic	2590.64	Sierrita
						5/14/14		455.31	Dynamic	2583.31	Sierrita
						5/30/14	455.31		Dynamic		BW, 2015a
						6/9/14		456.50	Dynamic	2582.12	Sierrita
						6/9/14	456.50		Dynamic		BW, 2015a
						7/6/14		458.90	Dynamic	2579.72	Sierrita
						7/6/14	458.40		Dynamic		BW, 2015a
						7/31/14		460.50	Dynamic	2578.12	Sierrita
						7/31/14	460.50		Dynamic		BW, 2015a
						8/27/14		462.20	Dynamic	2576.42	Sierrita
						8/27/14	462.20		Dynamic		BW, 2015a
						10/1/14		450.25	Static	2588.37	Sierrita
						10/1/14	449.75		Static		BW, 2015a
						11/4/14		466.80	Dynamic	2571.82	Sierrita
						11/4/14	466.30		Dynamic		BW, 2015a
						12/2/14		468.10	Dynamic	2570.52	Sierrita
						12/2/14	467.60		Dynamic		BW, 2015a
						1/4/15		469.30	Dynamic	2569.32	Sierrita
						2/4/15		469.65	Dynamic	2568.97	Sierrita
						3/3/15		470.90	Dynamic	2567.72	Sierrita
						4/9/15		472.20	Dynamic	2566.42	BW
						5/2/15		473.40	Dynamic	2565.22	BW
						6/11/15		460.25	Static	2578.37	BW
						7/6/15		475.74	Dynamic	2562.88	BW
						8/18/15		462.52	Static	2576.10	Sierrita
						10/7/15		478.15	Dynamic	2560.47	BW
						11/4/15		479.70	Dynamic	2558.92	BW
						12/9/15		480.90	Dynamic	2557.72	BW
						1/12/16		UTM	Static	NA	Sierrita
						4/8/16		483.60	Dynamic	2555.02	Sierrita

TABLE 4
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Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MC-2	221761	Sierrita	3526365.512	499369.116	3008.28	3/24/13	412.55		Static		BW, 2015a
						3/24/13	431.52		Dynamic		BW, 2015a
						3/14/14		Obstructed		NA	Sierrita
						5/14/14		440.68	Dynamic	2567.60	Sierrita
						5/15/14		440.66	Dynamic	2567.62	Sierrita
						5/15/14	440.66		Dynamic		BW, 2015a
						5/22/14		442.47	Dynamic	2565.81	Sierrita
						5/22/14	442.47		Dynamic		BW, 2015a
						5/30/14	442.47		Dynamic		BW, 2015a
						6/9/14		443.70	Dynamic	2564.58	Sierrita
						6/9/14	443.70		Dynamic		BW, 2015a
						7/6/14		445.80	Dynamic	2562.48	Sierrita
						7/6/14	445.63		Dynamic		BW, 2015a
						7/31/14		447.50	Dynamic	2560.78	Sierrita
						7/31/14	447.50		Dynamic		BW, 2015a
						8/27/14		449.30	Dynamic	2558.98	Sierrita
						8/27/14	449.30		Dynamic		BW, 2015a
						10/1/14		442.65	Static	2565.63	Sierrita
						10/1/14	442.48		Static		BW, 2015a
						11/4/14		453.60	Dynamic	2554.68	Sierrita
						11/4/14	453.43		Dynamic		BW, 2015a
						12/2/14		454.75	Dynamic	2553.53	Sierrita
						12/2/14	454.58		Dynamic		BW, 2015a
						1/4/15		456.40	Dynamic	2551.88	Sierrita
						3/3/15		457.95	Dynamic	2550.33	Sierrita
						4/9/15		459.20	Dynamic	2549.08	BW
						5/2/15		460.65	Dynamic	2547.63	BW
						6/11/15		453.20	Static	2555.08	BW
						7/6/15		463.20	Dynamic	2545.08	BW
						8/18/15		464.40	Dynamic	2543.88	Sierrita
						10/7/15		465.95	Dynamic	2542.33	BW
						11/4/15		466.50	Dynamic	2541.78	BW
						12/9/15		467.70	Dynamic	2540.58	BW
						1/12/16		468.13	Dynamic	2540.15	Sierrita
						4/8/16		468.15	Dynamic	2540.13	Sierrita
MC-3	221661	Sierrita	3526911.999	498858.417	3062.33	12/3/12	491.98		Static		BW, 2015a
						12/3/12	507.05		Dynamic		BW, 2015a
						3/13/14		Obstructed		NA	Sierrita
						5/13/14		515.62	Dynamic	2546.71	Sierrita
						5/15/14		515.62	Dynamic	2546.71	Sierrita
						5/15/14	515.62		Dynamic		BW, 2015a
						5/22/14		516.21	Dynamic	2546.12	Sierrita
						5/22/14	516.21		Dynamic		BW, 2015a
						5/30/14	516.21		Dynamic		BW, 2015a
						6/9/14		517.70	Dynamic	2544.63	Sierrita
						6/9/14	517.70		Dynamic		BW, 2015a
						7/6/14		519.50	Dynamic	2542.83	Sierrita
						7/6/14	518.83		Dynamic		BW, 2015a
						7/31/14		521.40	Dynamic	2540.93	Sierrita
						7/31/14	521.40		Dynamic		BW, 2015a
						8/27/14		522.95	Dynamic	2539.38	Sierrita
						8/27/14	522.95		Dynamic		BW, 2015a
						10/1/14		519.75	Static	2542.58	Sierrita
						10/1/14	519.08		Static		BW, 2015a
						11/4/14		527.25	Dynamic	2535.08	Sierrita
						11/4/14	526.58		Dynamic		BW, 2015a
						12/2/14		528.65	Dynamic	2533.68	Sierrita
						12/2/14	527.98		Dynamic		BW, 2015a
						1/4/15		530.50	Dynamic	2531.83	Sierrita
						2/4/15		531.21	Dynamic	2531.12	Sierrita
						3/3/15		532.10	Dynamic	2530.23	Sierrita
						4/9/15		533.10	Dynamic	2529.23	BW
						5/2/15		534.05	Dynamic	2528.28	BW
						6/11/15		531.35	Static	2530.98	BW
						7/6/15		536.45	Dynamic	2525.88	BW
						8/18/15		537.60	Dynamic	2524.73	Sierrita
						10/7/15		538.84	Dynamic	2523.49	BW
						11/4/15		539.80	Dynamic	2522.53	BW
						12/9/15		540.85	Dynamic	2521.48	BW
						1/12/16		541.37	Dynamic	2520.96	Sierrita
						4/8/16		543.60	Dynamic	2518.73	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MC-4	220842	Sierrita	3527773.257	498625.865	3096.035	8/13/12	530.67		Static		BW, 2015a
						8/13/12	548.72		Dynamic		BW, 2015a
						3/13/14		Obstructed		NA	Sierrita
						5/13/14		560.86	Dynamic	2535.18	Sierrita
						5/15/14		560.86	Dynamic	2535.18	Sierrita
						5/15/14	560.86		Dynamic		BW, 2015a
						5/22/14		561.09	Dynamic	2534.95	Sierrita
						5/22/14	561.09		Dynamic		BW, 2015a
						5/30/14	561.09		Dynamic		BW, 2015a
						6/5/14		561.90	Dynamic	2534.14	Sierrita
						6/5/14	561.90		Dynamic		BW, 2015a
						7/6/14		564.00	Dynamic	2532.04	Sierrita
						7/6/14	563.06		Dynamic		BW, 2015a
						7/31/14		565.70	Dynamic	2530.34	Sierrita
						7/31/14	565.70		Dynamic		BW, 2015a
						8/27/14		567.25	Dynamic	2528.79	Sierrita
						8/27/14	567.25		Dynamic		BW, 2015a
						10/1/14		558.80	Static	2537.24	Sierrita
						10/1/14	557.86		Static		BW, 2015a
						11/4/14		572.20	Dynamic	2523.84	Sierrita
						11/4/14	571.26		Dynamic		BW, 2015a
						12/2/14		573.70	Dynamic	2522.34	Sierrita
						12/2/14	572.76		Dynamic		BW, 2015a
						1/4/15		575.35	Dynamic	2520.69	Sierrita
						2/4/15		576.10	Dynamic	2519.94	Sierrita
						3/3/15		576.95	Dynamic	2519.09	Sierrita
						4/9/15		577.95	Dynamic	2518.09	Sierrita
						5/2/15		579.10	Dynamic	2516.94	Sierrita
						6/11/15		569.10	Static	2526.94	Sierrita
						7/6/15		581.40	Dynamic	2514.64	Sierrita
						8/18/15		582.70	Dynamic	2513.34	Sierrita
						10/7/15		UTM	Static	NA	Sierrita
						11/4/15		585.00	Dynamic	2511.04	Sierrita
						12/9/15		586.30	Dynamic	2509.74	Sierrita
						1/12/16		586.45	Dynamic	2509.59	Sierrita
						4/8/16		589.21	Dynamic	2506.83	Sierrita
MH-1	803629	Sierrita	3525872.911	497372.392	3179.27	11/21/06		443.90		2735.37	Sierrita
						1/10/07		444.15		2735.12	
						4/20/07		442.70		2736.57	
						7/3/07		441.33		2737.94	
						11/8/07		440.10		2739.17	
						1/28/08		439.97		2739.30	
						4/24/08		440.44		2738.83	
						8/7/08		439.65		2739.62	
						11/14/08		441.45		2737.82	
						2/17/09		440.90		2738.37	
						6/2/09		440.70		2738.57	
						4/13/10		438.62		2740.65	
						4/19/11		436.65		2742.62	
						4/25/12		436.95		2742.32	
						4/29/14		448.90		2730.37	
						6/4/15		460.67	Static	2718.60	
						11/18/15		467.79	Static	2711.48	
						6/15/16		470.26	Static	2709.01	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-3	803630	Sierrita	3525270.181	497472.430	3155.87	12/18/06		427.70		2728.17	Sierrita
						2/23/07		427.31		2728.56	
						4/23/07		425.51		2730.36	
						7/21/07		424.22		2731.65	
						10/20/07		422.15		2733.72	
						1/19/08		424.80		2731.07	
						4/21/08		425.44		2730.43	
						7/29/08		424.15		2731.72	
						10/24/08		426.10		2729.77	
						2/17/09		425.46		2730.41	
						6/2/09		425.18		2730.69	
						4/13/10		418.92		2736.95	
						4/19/11		420.10		2735.77	
						4/25/12		419.53		2736.34	
						4/2/13		425.84		2730.03	
						3/12/14		433.09		2722.78	
						4/25/14		436.44		2719.43	
						5/14/14		436.40		2719.47	
						6/24/14		436.38		2719.49	
						7/7/14		439.20		2716.67	
						8/8/14		440.46		2715.41	
						9/9/14		441.45	Static	2714.42	
						10/28/14		441.25		2714.62	
						11/26/14		441.30		2714.57	
						12/20/14		441.33	Static	2714.54	
						1/29/15		441.35	Static	2714.52	
						2/27/15		441.33	Static	2714.54	
						3/26/15		445.39	Static	2710.48	
						4/29/15		445.36	Static	2710.51	
						5/21/15		445.34	Static	2710.53	
						6/3/15		445.40	Static	2710.47	
						7/23/15		448.90	Static	2706.97	
						8/25/15		450.58	Static	2705.29	
						11/2/15		453.46	Static	2702.41	
						1/7/16		453.66	Static	2702.21	Sierrita
						2/11/16		453.79	Static	2702.08	Sierrita
						3/11/16		453.87	Static	2702.00	Sierrita
						6/23/16		451.18	Static	2704.69	Sierrita
MH-5	803632	Sierrita	3523725.339	497477.352	3123.47	11/21/06		389.22		2734.25	Sierrita
						1/12/07		390.70		2732.77	
						4/20/07		391.60		2731.87	
						7/3/07		391.66		2731.81	
						11/8/07		392.95		2730.52	
						1/28/08		391.40		2732.07	
						4/24/08		390.30		2733.17	
						8/7/08		391.55		2731.92	
						11/14/08		391.98		2731.49	
						2/17/09		391.33		2732.14	
						6/2/09		391.30		2732.17	
						4/13/10		381.47		2742.00	
						4/18/11		387.96		2735.51	
						6/14/12		398.80		2724.67	
						5/23/13		403.59		2719.88	
						4/29/14		Obstructed		NA	
						5/22/14		Obstructed		NA	
						5/28/14		408.22		2715.25	
						6/16/15		408.45	Static	2715.02	
						11/18/15		416.66	Static	2706.81	
						6/15/16		411.64	Static	2711.83	Sierrita
MH-6	803633	Sierrita	3522770.451	497436.646	3133.97	11/14/06		381.65		2752.32	Sierrita
						1/9/07		378.32		2755.65	
						4/20/07		374.80		2759.17	
						7/3/07		379.00		2754.97	
						11/8/07		380.30		2753.67	
						1/28/08		379.15		2754.82	
						4/24/08		379.20		2754.77	
						8/7/08		379.50		2754.47	
						11/14/08		379.50		2754.47	
						2/17/09		378.52		2755.45	
						6/2/09		379.45		2754.52	
						4/13/10		389.35		2744.62	
						5/17/11		387.85		2746.12	
						6/7/12		382.63		2751.34	
						4/2/13		402.02		2731.95	
						4/29/14		403.91		2730.06	
						6/4/15		403.20	Static	2730.77	
						11/18/15		412.41	Static	2721.56	
						6/15/16		382.92	Static	2751.05	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-7	803634	Sierrita	3522016.471	497502.475	3111.23	11/21/06		357.85		2753.38	Sierrita
						1/12/07		360.20		2751.03	
						4/20/07		368.20		2743.03	
						7/3/07		370.20		2741.03	
						11/8/07		370.60		2740.63	
						1/28/08		371.00		2740.23	
						4/24/08		370.92		2740.31	
						8/8/08		372.22		2739.01	
						11/14/08		373.20		2738.03	
						2/17/09		372.48		2738.75	
						6/2/09		371.53		2739.70	
						4/13/10		372.63		2738.60	
						4/18/11		368.76		2742.47	
						6/14/12		381.09		2730.14	
						5/23/13		391.31		2719.92	
						4/29/14		389.57		2721.66	
						6/4/15		392.63	Static	2718.60	
						11/18/15		393.67	Static	2717.56	
						6/15/16		383.49	Static	2727.74	Sierrita
MH-9	803635	Sierrita	3521252.607	496438.181	3162.57	11/8/06		380.58		2781.99	Sierrita
						1/9/07		362.10		2800.47	
						4/20/07		363.60		2798.97	
						7/3/07		365.25		2797.32	
						11/8/07		367.95		2794.62	
						1/28/08		368.58		2793.99	
						4/24/08		367.08		2795.49	
						8/8/08		370.38		2792.19	
						11/14/08		371.70		2790.87	
						2/17/09		371.97		2790.60	
						6/2/09		370.30		2792.27	
						4/15/10		373.30		2789.27	
						4/19/11		375.11		2787.46	
						4/26/12		380.49		2782.08	
						5/23/13		386.04		2776.53	
						3/12/14		390.22		2772.35	
						4/25/14		390.54		2772.03	
						5/14/14		390.45		2772.12	
						6/24/14		390.41		2772.16	
						7/29/14		388.82		2773.75	
						8/8/14		387.62		2774.95	
						9/9/14		387.00	Static	2775.57	
						10/28/14		387.73		2774.84	
						11/26/14		388.10		2774.47	
						12/21/14		388.40	Static	2774.17	
						1/29/15		388.56	Static	2774.01	
						2/27/15		388.62	Static	2773.95	
						3/26/15		388.39	Static	2774.18	
						4/29/15		388.42	Static	2774.15	
						5/21/15		388.45	Static	2774.12	
						6/3/15		388.51	Static	2774.06	
						7/23/15		389.72	Static	2772.85	
						8/25/15		388.55	Static	2774.02	
						11/2/15		388.62	Static	2773.95	
						1/7/16		388.77	Static	2773.80	Sierrita
						2/11/16		388.70	Static	2773.87	Sierrita
						3/11/16		388.64	Static	2773.93	Sierrita
						6/23/16		387.85	Static	2774.72	Sierrita
MH-10	803636	Sierrita	3521236.861	495717.770	3187.84	11/8/06		346.70		2841.14	Sierrita
						1/9/07		364.80		2823.04	
						4/3/07		355.65		2832.19	
						7/16/07		356.75		2831.09	
						10/16/07		357.60		2830.24	
						1/3/08		358.32		2829.52	
						4/28/08		358.83		2829.01	
						7/31/08		358.50		2829.34	
						11/4/08		360.00		2827.84	
						1/2/09		360.15		2827.69	
						4/14/09		363.50		2824.34	
						4/26/10		362.04		2825.80	
						5/18/11		363.39		2824.45	
						6/5/12		366.25		2821.59	
						6/10/13		369.96		2817.88	
						4/23/14		371.84	Static	2816.00	
						4/14/15		374.09	Static	2813.75	
						11/18/15		375.39	Static	2812.45	
						6/8/16		375.14	Static	2812.70	Sierrita

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-11	803637	Sierrita	3524463.648	498749.381	3041.76	11/9/06		369.90		2671.86	Sierrita
						1/11/07		369.55		2672.21	
						4/10/07		370.46		2671.30	
						7/17/07		372.75		2669.01	
						10/3/07		373.80		2667.96	
						1/4/08		373.36		2668.40	
						4/29/08		373.89		2667.87	
						7/29/08		375.10		2666.66	
						11/7/08		376.85		2664.91	
						3/19/09		374.88		2666.88	
						5/13/09		375.75		2666.01	
						4/27/10		375.85		2665.91	
						5/24/11		376.65		2665.11	
						5/24/12		376.65		2665.11	
						4/23/13		383.85		2657.91	
						3/12/14		399.52		2642.24	
						4/29/14		404.51		2637.25	
						5/14/14		404.48		2637.28	
						6/12/14		408.00		2633.76	
						7/28/14		411.79		2629.97	
						8/7/14		412.19		2629.57	
						9/8/14		413.51	Static	2628.25	
						10/29/14		416.87		2624.89	
						11/26/14		419.24		2622.52	
						12/17/14		421.06	Static	2620.70	
						1/29/15		422.70	Static	2619.06	
						2/27/15		422.96	Static	2618.80	
						3/18/15		421.87	Static	2619.89	
						4/16/15		420.86	Static	2620.90	
						5/21/15		421.21	Static	2620.55	
						6/2/15		421.52	Static	2620.24	
						7/24/15		425.30	Static	2616.46	
						8/14/15		427.11	Static	2614.65	
						11/5/15		428.08	Static	2613.68	
						1/18/16		428.18	Static	2613.58	Sierrita
						2/11/16		428.23	Static	2613.53	Sierrita
						3/8/16		428.31	Static	2613.45	Sierrita
						5/18/16		432.35	Static	2609.41	Sierrita
MH-12	803638	Sierrita	3525207.002	498772.161	3055.08	3/12/14		Obstructed		NA	Sierrita
						4/29/14		UTM		NA	
						5/14/14		UTM		NA	
						6/9/14		UTM		NA	
						7/28/14		UTM		NA	
						8/7/14		UTM		NA	
						9/8/14		UTM	Static	NA	
						10/28/14		UTM		NA	
						11/26/14		UTM		NA	
						12/17/14		UTM	Static	NA	
						1/28/15		UTM		NA	
						2/27/15		UTM		NA	
						3/18/15		UTM		NA	
						4/2/15		UTM		NA	
						5/21/15		UTM		NA	
						6/11/15		UTM	Static	NA	
						7/23/15		UTM	Static	NA	
						8/25/15		UTM	Static	NA	
						11/5/15		UTM	Static	NA	
						1/7/16		UTM	Static	NA	Sierrita
						2/11/16		UTM	Static	NA	Sierrita
						3/7/16		UTM	Static	NA	Sierrita
						6/23/16		UTM	Static	NA	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-13A	904071	Sierrita	3523793.443	498823.857	3026.23	11/10/06		327.84		2698.39	Sierrita
						1/24/07		326.35		2699.88	
						4/18/07		328.14		2698.09	
						7/17/07		330.98		2695.25	
						10/4/07		331.70		2694.53	
						1/4/08		330.85		2695.38	
						4/29/08		331.80		2694.43	
						7/16/08		333.78		2692.45	
						10/20/08		334.64		2691.59	
						1/23/09		332.98		2693.25	
						4/15/09		332.19		2694.04	
						4/21/10		333.27		2692.96	
						5/23/11		334.40		2691.83	
						6/11/12		337.90		2688.33	
						4/3/13		344.58		2681.65	
						3/12/14		353.78		2672.45	
						4/10/14		355.73		2670.50	
						5/14/14		355.70		2670.53	
						6/12/14		360.00		2666.23	
						7/28/14		362.78		2663.45	
						8/7/14		363.32		2662.91	
						9/8/14		364.56	Static	2661.67	
						10/29/14		365.24		2660.99	
						11/26/14		365.91		2660.32	
						12/17/14		366.51	Static	2659.72	
						1/29/15		366.84	Static	2659.39	
						2/27/15		366.90	Static	2659.33	
						3/18/15		370.52	Static	2655.71	
						4/22/15		370.80	Static	2655.43	
						5/21/15		370.92	Static	2655.31	
						6/2/15		371.02	Static	2655.21	
						7/23/15		371.17	Static	2655.06	
						8/25/15		375.27	Static	2650.96	
						11/5/15		377.29	Static	2648.94	
						1/18/16		377.24	Static	2648.99	Sierrita
						2/11/16		377.19	Static	2649.04	Sierrita
						3/8/16		377.30	Static	2648.93	Sierrita
						4/6/16		378.85	Static	2647.38	Sierrita
MH-13B	904072	Sierrita	3523787.358	498829.881	3025.63	11/10/06		330.70		2694.93	Sierrita
						1/24/07		330.58		2695.05	
						4/18/07		332.21		2693.42	
						7/17/07		335.47		2690.16	
						10/3/07		335.90		2689.73	
						1/4/08		334.85		2690.78	
						4/29/08		336.35		2689.28	
						7/16/08		337.92		2687.71	
						10/20/08		339.14		2686.49	
						1/23/09		337.20		2688.43	
						4/15/09		336.50		2689.13	
						4/21/10		337.47		2688.16	
						5/23/11		338.75		2686.88	
						6/11/12		342.50		2683.13	
						4/3/13		348.98		2676.65	
						3/12/14		358.93		2666.70	
						4/10/14		361.02		2664.61	
						5/14/14		360.97		2664.66	
						6/12/14		365.82		2659.81	
						7/28/14		368.39		2657.24	
						8/7/14		369.30		2656.33	
						9/8/14		369.93	Static	2655.70	
						10/29/14		370.39		2655.24	
						11/26/14		370.78		2654.85	
						12/17/14		371.23	Static	2654.40	
						1/29/15		372.73	Static	2652.90	
						2/27/15		373.00	Static	2652.63	
						3/18/15		375.64	Static	2649.99	
						4/22/15		375.55	Static	2650.08	
						5/21/15		375.62	Static	2650.01	
						6/2/15		375.68	Static	2649.95	
						7/23/15		375.75	Static	2649.88	
						8/25/15		380.98	Static	2644.65	
						11/5/15		383.30	Static	2642.33	
						1/18/16		383.41	Static	2642.22	Sierrita
						2/11/16		383.38	Static	2642.25	Sierrita
						3/8/16		383.47	Static	2642.16	Sierrita
						4/6/16		384.00	Static	2641.63	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-13C	904073	Sierrita	3523793.032	498797.461	3028.46	11/10/06		335.38		2693.08	Sierrita
						1/24/07		335.45		2693.01	
						4/18/07		337.80		2690.66	
						7/17/07		339.82		2688.64	
						10/4/07		340.75		2687.71	
						1/4/08		340.42		2688.04	
						4/29/08		341.55		2686.91	
						7/16/08		343.35		2685.11	
						10/20/08		344.57		2683.89	
						1/23/09		343.82		2684.64	
						4/15/09		343.08		2685.38	
						4/21/10		343.86		2684.60	
						5/23/11		344.30		2684.16	
						6/11/12		348.75		2679.71	
						4/3/13		353.62		2674.84	
						3/12/14		362.99		2665.47	
						4/10/14		365.21		2663.25	
						5/14/14		365.22		2663.24	
						6/12/14		370.51		2657.95	
						7/28/14		373.52		2654.94	
						8/7/14		374.46		2654.00	
						9/8/14		375.79	Static	2652.67	
						10/29/14		376.54		2651.92	
						11/26/14		377.00		2651.46	
						12/17/14		377.60	Static	2650.86	
						1/29/15		378.11	Static	2650.35	
						2/27/15		378.52	Static	2649.94	
						3/18/15		382.36	Static	2646.10	
						4/22/15		382.61	Static	2645.85	
						5/21/15		382.75	Static	2645.71	
						6/2/15		382.87	Static	2645.59	
						7/23/15		382.94	Static	2645.52	
						8/25/15		386.44	Static	2642.02	
						11/5/15		388.32	Static	2640.14	
						1/18/16		388.46	Static	2640.00	Sierrita
						2/11/16		388.48	Static	2639.98	Sierrita
						3/8/16		388.56	Static	2639.90	Sierrita
						4/6/16		391.65	Static	2636.81	Sierrita
MH-14	528098	Sierrita	3525269.340	497517.626	3153.46	12/18/06		427.28		2726.18	Sierrita
						2/23/07		426.75		2726.71	
						4/23/07		425.58		2727.88	
						7/10/07		424.20		2729.26	
						10/17/07		422.80		2730.66	
						1/18/08		424.87		2728.59	
						4/8/08		425.13		2728.33	
						7/22/08		423.92		2729.54	
						10/6/08		426.03		2727.43	
						2/13/09		425.90		2727.56	
						4/7/09		424.90		2728.56	
						4/15/10		422.91		2730.55	
						8/12/10		421.82		2731.64	
						4/19/11		418.94		2734.52	
						4/25/12		419.83		2733.63	
						4/2/13		425.59		2727.87	
						10/21/13		426.13		2727.33	
						1/3/14		426.45		2727.01	
						3/12/14		UTM		NA	
						3/25/14		435.04		2718.42	
						4/9/14		436.20		2717.26	
						5/14/14		436.12		2717.34	
						6/24/14		436.09		2717.37	
						7/7/14		440.32		2713.14	
						8/8/14		441.58		2711.88	
						9/9/14		442.76	Static	2710.70	
						10/28/14		442.79		2710.67	
						11/4/14		443.64		2709.82	
						12/20/14		444.48	Static	2708.98	
						1/7/15		445.85	Static	2707.61	
						2/27/15		446.20	Static	2707.26	
						3/26/15		447.25	Static	2706.21	
						4/21/15		447.63	Static	2705.83	
						5/21/15		447.89	Static	2705.57	
						6/2/15		447.93	Static	2705.53	
						7/6/15		449.87	Static	2703.59	
						8/25/15		452.49	Static	2700.97	
						10/7/15		454.52	Static	2698.94	
						11/18/15		454.44	Static	2699.02	
						1/13/16		455.10	Static	2698.36	Sierrita
MH-14	528098	Sierrita	3525269.340	497517.626	3153.46	2/11/16		455.18	Static	2698.28	Sierrita
						3/11/16		455.23	Static	2698.23	Sierrita
						4/5/16		455.29	Static	2698.17	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-15E	528094	Sierrita	3523274.327	497584.800	3111.37	11/10/06		385.25		2726.12	Sierrita
						2/23/07		384.07		2727.30	
						4/23/07		385.11		2726.26	
						7/21/07		385.80		2725.57	
						10/20/07		387.08		2724.29	
						1/18/08		386.60		2724.77	
						4/21/08		386.18		2725.19	
						7/29/08		387.39		2723.98	
						10/24/08		388.51		2722.86	
						2/17/09		387.46		2723.91	
						6/2/09		386.98		2724.39	
						4/13/10		386.17		2725.20	
						4/18/11		382.69		2728.68	
						6/14/12		391.96		2719.41	
						4/2/13		407.42		2703.95	
						3/12/14		409.49		2701.88	
						4/25/14		410.59		2700.78	
						5/14/14		410.62		2700.75	
						6/24/14		410.60		2700.77	
						7/29/14		404.02		2707.35	
						8/8/14		404.33		2707.04	
						9/9/14		404.56	Static	2706.81	
						10/28/14		402.90		2708.47	
						11/26/14		403.20		2708.17	
						12/20/14		403.49	Static	2707.88	
						1/29/15		403.64	Static	2707.73	
						2/27/15		403.66	Static	2707.71	
						3/26/15		401.26	Static	2710.11	
						4/29/15		401.28	Static	2710.09	
						5/21/15		401.25	Static	2710.12	
						6/3/15		401.31	Static	2710.06	
						7/23/15		411.84	Static	2699.53	
						8/25/15		416.47	Static	2694.90	
						11/2/15		421.92	Static	2689.45	
						1/7/16		422.24	Static	2689.13	Sierrita
						2/11/16		422.21	Static	2689.16	Sierrita
						3/11/16		422.26	Static	2689.11	Sierrita
						6/23/16		405.39	Static	2705.98	Sierrita
MH-15W	528093	Sierrita	3523275.003	497524.067	3117.07	12/18/06		391.30		2725.77	Sierrita
						2/23/07		390.00		2727.07	
						4/23/07		391.18		2725.89	
						7/11/07		390.85		2726.22	
						10/17/07		393.10		2723.97	
						1/18/08		392.90		2724.17	
						4/8/08		391.00		2726.07	
						7/1/08		392.70		2724.37	
						10/6/08		394.00		2723.07	
						1/7/09		392.55		2724.52	
						5/6/09		390.25		2726.82	
						4/15/10		390.58		2726.49	
						8/12/10		389.20		2727.87	
						5/17/11		388.95		2728.12	
						4/25/12		397.62		2719.45	
						5/28/13		409.15		2707.92	
						12/12/13		414.19		2702.88	
						1/3/14		412.60		2704.47	
						3/12/14		414.01		2703.06	
						4/9/14		412.76		2704.31	
						5/14/14		412.77		2704.30	
						6/24/14		412.74		2704.33	
						7/7/14		413.44		2703.63	
						8/8/14		409.65		2707.42	
						9/9/14		407.53	Static	2709.54	
						10/28/14		403.64		2713.43	
						11/4/14		405.18		2711.89	
						12/20/14		406.58	Static	2710.49	
						1/7/15		405.68	Static	2711.39	
						2/27/15		405.79	Static	2711.28	
						3/26/15		401.30	Static	2715.77	
						4/21/15		401.33	Static	2715.74	
						5/18/15		401.27	Static	2715.80	
						6/3/15		401.36	Static	2715.71	
						7/6/15		401.37	Static	2715.70	
						8/25/15		419.08	Static	2697.99	
						10/8/15		UTM	Static	NA	
MH-15W	528093	Sierrita	3523275.003	497524.067	3117.07	11/2/15		UTM	Static	NA	Sierrita
						1/13/16		UTM	Static	NA	Sierrita
						2/11/16		UTM	Static	NA	Sierrita
						3/11/16		UTM	Static	NA	Sierrita
						4/5/16		UTM	Static	NA	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-16E	528100	Sierrita	3521870.233	497576.673	3097.72	12/18/06		344.70		2753.02	Sierrita
						2/23/07		349.39		2748.33	
						4/23/07		352.85		2744.87	
						7/21/07		355.00		2742.72	
						10/20/07		355.55		2742.17	
						1/19/08		355.30		2742.42	
						4/21/08		355.15		2742.57	
						7/29/08		356.78		2740.94	
						10/24/08		357.62		2740.10	
						2/17/09		357.02		2740.70	
						6/2/09		354.15		2743.57	
						4/13/10		357.71		2740.01	
						4/18/11		354.93		2742.79	
						4/26/12		362.82		2734.90	
						5/23/13		364.82		2732.90	
						3/12/14		384.61		2713.11	
						4/25/14		382.54		2715.18	
						5/14/14		382.56		2715.16	
						6/24/14		382.55		2715.17	
						7/29/14		380.17		2717.55	
						8/8/14		381.30		2716.42	
						9/9/14		382.26	Static	2715.46	
						10/28/14		379.10		2718.62	
						11/26/14		380.26		2717.46	
						12/21/14		381.24	Static	2716.48	
						1/29/15		381.30	Static	2716.42	
						2/27/15		381.33	Static	2716.39	
						3/26/15		379.61	Static	2718.11	
						4/29/15		379.56	Static	2718.16	
						5/21/15		379.58	Static	2718.14	
						6/3/15		379.64	Static	2718.08	
						7/23/15		385.44	Static	2712.28	
						8/25/15		386.73	Static	2710.99	
						11/2/15		389.51	Static	2708.21	
						1/7/16		389.68	Static	2708.04	Sierrita
						2/11/16		389.77	Static	2707.95	Sierrita
						3/11/16		389.80	Static	2707.92	Sierrita
						6/23/16		372.10	Static	2725.62	Sierrita
MH-16W	528099	Sierrita	3521870.818	497516.074	3100.24	12/18/06		346.62		2753.62	Sierrita
						2/23/07		352.18		2748.06	
						4/23/07		355.75		2744.49	
						7/11/07		357.47		2742.77	
						10/17/07		357.75		2742.49	
						1/3/08		357.80		2742.44	
						4/24/08		357.87		2742.37	
						7/22/08		359.24		2741.00	
						10/8/08		360.03		2740.21	
						3/19/09		358.73		2741.51	
						4/7/09		358.60		2741.64	
						4/15/10		360.31		2739.93	
						8/12/10		360.42		2739.82	
						5/17/11		357.55		2742.69	
						4/25/12		364.24		2736.00	
						4/2/13		377.99		2722.25	
						10/21/13		387.88		2712.36	
						1/3/14		389.39		2710.85	
						3/12/14		385.88		2714.36	
						4/9/14		383.83		2716.41	
						5/14/14		383.87		2716.37	
						6/24/14		383.89		2716.35	
						7/7/14		381.43		2718.81	
						8/8/14		382.48		2717.76	
						9/9/14		383.38	Static	2716.86	
						10/28/14		379.41		2720.83	
						11/4/14		380.82		2719.42	
						12/21/14		382.11	Static	2718.13	
						1/7/15		382.74	Static	2717.50	
						2/27/15		382.81	Static	2717.43	
						3/26/15		379.84	Static	2720.40	
						4/21/15		381.49	Static	2718.75	
						5/21/15		381.20	Static	2719.04	
						6/3/15		381.43	Static	2718.81	
						7/6/15		385.73	Static	2714.51	
MH-16W	528099	Sierrita	3521870.818	497516.074	3100.24	8/25/15		387.68	Static	2712.56	Sierrita
						10/8/15		386.10	Static	2714.14	
						11/2/15		387.14	Static	2713.10	
						1/13/16		387.06	Static	2713.18	Sierrita
						2/11/16		387.02	Static	2713.22	Sierrita
						3/11/16		386.95	Static	2713.29	Sierrita
						4/5/16		387.02	Static	2713.22	Sierrita
						8/16/16		386.20	Static	2714.04	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-24	563799	Sierrita	3523709.046	497390.515	3131.16	11/21/06		397.50		2733.66	Sierrita
						4/20/07		399.35		2731.81	
						8/3/07		399.33		2731.83	
						11/8/07		400.50		2730.66	
						1/30/08		396.90		2734.26	
						4/24/08		395.89		2735.27	
						8/7/08		396.78		2734.38	
						11/14/08		396.88		2734.28	
						2/17/09		396.31		2734.85	
						6/2/09		396.50		2734.66	
						4/13/10		386.43		2744.73	
						4/18/11		392.84		2738.32	
						4/25/12		396.58		2734.58	
						4/2/13		408.56		2722.60	
						4/29/14		Obstructed		NA	
						5/22/14		407.41		2723.75	
						6/4/15		404.82	Static	2726.34	
						11/18/15		UTM	Static	NA	
						6/15/16		UTM	Static	NA	Sierrita
MH-25A	201528	Sierrita	3526510.175	498880.349	3056.57	11/13/06		454.11		2602.46	Sierrita
						1/10/07		453.10		2603.47	
						4/4/07		452.20		2604.37	
						7/20/07		454.02		2602.55	
						10/3/07		454.69		2601.88	
						1/2/08		454.82		2601.75	
						4/25/08		454.47		2602.10	
						7/2/08		455.68		2600.89	
						10/17/08		457.49		2599.08	
						1/5/09		457		2599.57	
						4/15/09		455.90		2600.67	
						4/13/10		458.10		2598.47	
						4/27/11		459.25		2597.32	
						5/1/12		459.69		2596.88	
						4/3/13		461.70		2594.87	
						3/12/14		473.95		2582.62	
						4/15/14		477.45		2579.12	
						5/13/14		477.40		2579.17	
						6/9/14		482.36		2574.21	
						7/28/14		486.66		2569.91	
						8/7/14		488.09		2568.48	
						9/8/14		489.49	Static	2567.08	
						10/29/14		492.67		2563.90	
						11/26/14		495.20		2561.37	
						12/17/14		497.76	Static	2558.81	
						1/29/15		499.10	Static	2557.47	
						2/27/15		500.16	Static	2556.41	
						3/18/15		498.50	Static	2558.07	
						4/7/15		499.37	Static	2557.20	
						5/21/15		501.39	Static	2555.18	
						6/1/15		503.19	Static	2553.38	
						8/31/15		505.05	Static	2551.52	
						11/5/15		505.24	Static	2551.33	
						1/7/16		507.87	Static	2548.70	Sierrita
						2/12/16		508.53	Static	2548.04	Sierrita
						3/7/16		508.92	Static	2547.65	Sierrita
						4/11/16		510.58	Static	2545.99	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-25B	208429	Sierrita	3526515.244	498870.343	3058.22	11/13/06		455.36		2602.86	
						1/10/07		454.28		2603.94	
						4/4/07		453.20		2605.02	
						7/20/07		455.32		2602.90	
						10/3/07		456.01		2602.21	
						1/2/08		456.05		2602.17	
						4/25/08		456.02		2602.20	
						7/2/08		457.10		2601.12	
						10/17/08		458.39		2599.83	
						1/5/09		458.38		2599.84	
						4/15/09		457.28		2600.94	
						4/13/10		458.27		2599.95	
						4/27/11		460.35		2597.87	
						6/15/11		460.85		2597.37	
						5/1/12		460.90		2597.32	
						4/3/13		463.02		2595.20	
						3/12/14		475.49		2582.73	
						4/15/14		478.92		2579.30	Sierrita
						5/13/14		478.93		2579.29	
						6/9/14		483.75		2574.47	
						7/28/14		488.06		2570.16	
						8/7/14		489.41		2568.81	
						9/8/14		490.78	Static	2567.44	
						10/29/14		493.95		2564.27	
						11/26/14		496.89		2561.33	
						12/17/14		499.64	Static	2558.58	
						1/29/15		501.19	Static	2557.03	
						2/27/15		502.38	Static	2555.84	
						3/18/15		499.72	Static	2558.50	
						4/7/15		500.60	Static	2557.62	
						5/21/15		502.63	Static	2555.59	
						6/1/15		502.94	Static	2555.28	
						7/23/15		504.42	Static	2553.80	
						8/31/15		UTM	Static	NA	
						11/5/15		UTM	Static	NA	
						1/7/16		UTM	Static	NA	Sierrita
						2/12/16		UTM	Static	NA	Sierrita
						3/7/16		UTM	Static	NA	Sierrita
						4/11/16		UTM	Static	NA	Sierrita
						9/21/16		515.10	Static	2543.12	
MH-25C	208426	Sierrita	3526491.132	498874.666	3057.24	11/13/06		454.65		2602.59	
						1/10/07		453.57		2603.67	
						4/13/07		452.30		2604.94	
						7/20/07		454.42		2602.82	
						10/3/07		455.19		2602.05	
						1/2/08		455.06		2602.18	
						4/25/08		454.84		2602.40	
						7/2/08		456.23		2601.01	
						10/17/08		457.49		2599.75	
						1/5/09		457.30		2599.94	
						4/15/09		456.41		2600.83	
						4/13/10		459.28		2597.96	
						4/27/11		459.16		2598.08	
						6/15/11		459.52		2597.72	
						5/1/12		459.76		2597.48	
						4/3/13		461.80		2595.44	
						3/12/14		474.31		2582.93	
						4/15/14		477.67		2579.57	Sierrita
						5/13/14		477.63		2579.61	
						6/9/14		482.63		2574.61	
						7/28/14		487.01		2570.23	
						8/7/14		488.25		2568.99	
						9/8/14		489.69	Static	2567.55	
						10/29/14		492.81		2564.43	
						11/26/14		495.28		2561.96	
						12/17/14		497.94	Static	2559.30	
						1/29/15		500.06	Static	2557.18	
						2/27/15		501.45	Static	2555.79	
						3/18/15		498.51	Static	2558.73	
						4/7/15		UTM	Static	NA	
						5/21/15		UTM	Static	NA	
						6/1/15		UTM	Static	NA	
						7/23/15		UTM	Static	NA	
						8/31/15		UTM	Static	NA	
						11/5/15		UTM	Static	NA	
						1/7/16		UTM	Static	NA	Sierrita
						2/12/16		UTM	Static	NA	Sierrita
						3/7/16		UTM	Static	NA	Sierrita
MH-25C	208426	Sierrita	3526491.132	498874.666	3057.24	4/11/16		UTM	Static	NA	Sierrita
						9/21/16		514.86	Static	2542.38	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-26A	201527	Sierrita	3527818.233	498852.692	3070.89	11/13/06		495.74		2575.15	Sierrita
						1/15/07		495.65		2575.24	
						4/4/07		493.75		2577.14	
						7/19/07		495.02		2575.87	
						10/2/07		496.12		2574.77	
						1/2/08		496.28		2574.61	
						4/25/08		495.73		2575.16	
						7/2/08		496.98		2573.91	
						10/17/08		498.23		2572.66	
						1/5/09		498.76		2572.13	
						4/21/09		497.85		2573.04	
						4/13/10		499.68		2571.21	
						4/27/11		500.71		2570.18	
						5/2/12		501.05		2569.84	
						4/4/13		501.96		2568.93	
						3/12/14		513.50		2557.39	
						4/15/14		513.40		2557.49	
						5/13/14		513.36		2557.53	
						6/9/14		520.93		2549.96	
						7/28/14		524.95		2545.94	
						8/7/14		525.55		NA	
						9/8/14		UTM	Static	NA	
						10/28/14		UTM		NA	
						11/26/14		UTM		NA	
						12/16/14		UTM	Static	NA	
						1/29/15		UTM	Static	NA	
						2/27/15		UTM	Static	NA	
						3/18/15		UTM	Static	NA	
						4/7/15		UTM	Static	NA	
						5/2/15		UTM	Static	NA	
						6/1/15		UTM	Static	NA	
						7/8/15		UTM	Static	NA	
						8/17/15		UTM	Static	NA	
						11/6/15		UTM	Static	NA	
						1/7/16		DRY	Static	DRY	Sierrita
						2/12/16		DRY	Static	DRY	Sierrita
						3/7/16		DRY	Static	DRY	Sierrita
						4/11/16		DRY	Static	DRY	Sierrita
MH-26B	208427	Sierrita	3527814.016	498839.900	3070.50	11/13/06		493.00		2577.50	Sierrita
						1/15/07		492.85		2577.65	
						4/4/07		490.78		2579.72	
						7/19/07		492.01		2578.49	
						10/2/07		493.18		2577.32	
						1/2/08		493.76		2576.74	
						4/25/08		492.98		2577.52	
						7/2/08		494.10		2576.40	
						10/20/08		495.31		2575.19	
						1/5/09		495.88		2574.62	
						4/21/09		494.90		2575.60	
						4/13/10		496.77		2573.73	
						5/5/11		497.73		2572.77	
						5/1/12		498.00		2572.50	
						4/4/13		499.03		2571.47	
						3/12/14		510.69		2559.81	
						4/15/14		510.67		2559.83	
						5/13/14		510.68		2559.82	
						6/9/14		517.75		2552.75	
						7/28/14		522.14		2548.36	
						8/7/14		523.46		2547.04	
						9/8/14		524.35	Static	2546.15	
						10/28/14		527.68		2542.82	
						11/26/14		529.90		2540.60	
						12/16/14		531.11	Static	2539.39	
						1/29/15		531.79	Static	2538.71	
						2/27/15		532.68	Static	2537.82	
						3/18/15		533.34	Static	2537.16	
						4/7/15		534.12	Static	2536.38	
						5/21/15		535.90	Static	2534.60	
						6/1/15		535.79	Static	2534.71	
						7/8/15		537.52	Static	2532.98	
						8/17/15		UTM	Static	NA	
						11/6/15		UTM	Static	NA	
						1/7/16		UTM	Static	NA	Sierrita
						2/12/16		UTM	Static	NA	Sierrita
						3/7/16		UTM	Static	NA	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-26B	208427	Sierrita	3527814.016	498839.900	3070.50	4/11/16		UTM	Static	NA	Sierrita
						9/21/16		548.09	Static	2522.41	Sierrita
MH-26C	208428	Sierrita	3527806.770	498865.240	3069.11	11/13/06		494.45		2574.66	Sierrita
						1/15/07		494.10		2575.01	
						4/4/07		492.30		2576.81	
						7/19/07		493.62		2575.49	
						10/2/07		496.58		2572.53	
						1/2/08		495.35		2573.76	
						4/25/08		494.37		2574.74	
						7/2/08		495.55		2573.56	
						10/20/08		496.78		2572.33	
						1/5/09		497.21		2571.90	
						4/21/09		493.95		2575.16	
						4/13/10		498.14		2570.97	
						4/27/11		499.14		2569.97	
						5/1/12		499.44		2569.67	
						4/4/13		500.61		2568.50	
						3/12/14		512.31		2556.80	
						4/15/14		512.27		2556.84	
						5/13/14		512.30		2556.81	
						6/9/14		519.21		2549.90	
						7/28/14		523.77		2545.34	
						8/7/14		525.34		2543.77	
						9/8/14		526.04	Static	2543.07	
						10/28/14		529.30		2539.81	
						11/26/14		532.02		2537.09	
						12/16/14		535.02	Static	2534.09	
						1/29/15		536.86	Static	2532.25	
						2/27/15		534.31	Static	2534.80	
						3/18/15		535.01	Static	2534.10	
						4/7/15		535.70	Static	2533.41	
						5/21/15		537.57	Static	2531.54	
						6/1/15		539.22	Static	2529.89	
						7/8/15		541.12	Static	2527.99	
						8/17/15		541.14	Static	2527.97	
						11/6/15		541.29	Static	2527.82	
						1/7/16		543.66	Static	2525.45	Sierrita
						2/12/16		544.54	Static	2524.57	Sierrita
						3/7/16		545.45	Static	2523.66	Sierrita
						4/11/16		UTM	Static	NA	Sierrita
						9/21/16		549.78	Static	2519.33	Sierrita
MH-28	903648	Sierrita	3524609.980	497471.427	3142.18	11/14/06		401.10		2741.08	Sierrita
						2/19/07		401.10		2741.08	
						4/17/07		402.32		2739.86	
						7/16/07		403.18		2739.00	
						10/11/07		403.00		2739.18	
						1/21/08		402.72		2739.46	
						4/8/08		401.90		2740.28	
						7/1/08		401.48		2740.70	
						10/6/08		402.17		2740.01	
						1/7/09		402		2740.18	
						4/7/09		401.06		2741.12	
						10/13/09		401.10		2741.08	
						4/15/10		395.65		2746.53	
						8/12/10		398.60		2743.58	
						10/12/10		399.00		2743.18	
						5/17/11		396.89		2745.29	
						10/4/11		397.90		2744.28	
						5/21/12		398.64		2743.54	
						10/9/12		403.77		2738.41	
						4/2/13		405.08		2737.10	
						10/21/13		407.88		2734.30	
						1/3/14		408.01		2734.17	
						3/12/14		411.69		2730.49	
						4/9/14		412.72		2729.46	
						5/14/14		412.74		2729.44	
						6/24/14		412.76		2729.42	
						7/7/14		414.90		2727.28	
						8/8/14		414.60		2727.58	
						9/9/14		414.19	Static	2727.99	
						10/28/14		415.32		2726.86	
						11/4/14		415.92		2726.26	
						12/20/14		416.46	Static	2725.72	
						1/7/15		416.16	Static	2726.02	
						2/27/15		416.10	Static	2726.08	
						3/26/15		414.87	Static	2727.31	
						4/21/15		414.83	Static	2727.35	
						5/21/15		414.80	Static	2727.38	

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-28	903648	Sierrita	3524609.980	497471.427	3142.18	6/3/15		414.86	Static	2727.32	Sierrita
						7/6/15		416.53	Static	2725.65	
						7/20/15		416.85	Static	2725.33	
						8/25/15		417.35	Static	2724.83	
						10/8/15		417.68	Static	2724.50	
						11/2/15		417.63	Static	2724.55	
						1/13/16		418.49	Static	2723.69	Sierrita
						2/11/16		418.67	Static	2723.51	Sierrita
						3/11/16		418.74	Static	2723.44	Sierrita
						4/5/16		417.34	Static	2724.84	Sierrita
						8/16/16		415.50	Static	2726.68	Sierrita
MH-29	903649	Sierrita	3522805.518	497604.326	3123.15	11/14/06		378.05		2745.10	Sierrita
						2/19/07		376.58		2746.57	
						4/17/07		376.75		2746.40	
						7/16/07		379.07		2744.08	
						10/11/07		381.92		2741.23	
						1/18/08		380.41		2742.74	
						4/8/08		380.16		2742.99	
						7/1/08		380.50		2742.65	
						10/7/08		381.52		2741.63	
						1/9/09		380.25		2742.90	
						4/7/09		379.90		2743.25	
						10/13/09		380.52		2742.63	
						4/15/10		379.59		2743.56	
						8/12/10		378.65		2744.50	
						10/12/10		379.31		2743.84	
						4/20/11		377.75		2745.40	
						5/23/11		377.80		2745.35	
						10/4/11		380.25		2742.90	
						5/21/12		389.39		2733.76	
						10/9/12		365.70		2757.45	
						4/2/13		392.00		2731.15	
						11/8/13		393.39		2729.76	
						12/11/13		394.82		2728.33	
						1/3/14		394.63		2728.52	
						3/12/14		394.25		2728.90	
						4/9/14		393.95		2729.20	
						5/14/14		393.92		2729.23	
						6/24/14		393.94		2729.21	
						7/7/14		392.13		2731.02	
						8/8/14		392.28		2730.87	
						9/9/14		392.59	Static	2730.56	
						10/28/14		400.46		2722.69	
						11/4/14		400.90		2722.25	
						12/21/14		401.30	Static	2721.85	
						1/7/15		402.56	Static	2720.59	
						2/27/15		402.89	Static	2720.26	
						3/26/15		402.18	Static	2720.97	
						4/21/15		402.40	Static	2720.75	
						5/21/15		402.49	Static	2720.66	
						6/3/15		402.52	Static	2720.63	
						7/6/15		404.41	Static	2718.74	
						8/25/15		404.64	Static	2718.51	
						10/8/15		404.75	Static	2718.40	
						11/2/15		404.71	Static	2718.44	
						1/13/16		404.88	Static	2718.27	Sierrita
						2/11/16		404.93	Static	2718.22	Sierrita
						3/11/16		404.90	Static	2718.25	Sierrita
						4/5/16		404.94	Static	2718.21	Sierrita
						8/16/16		404.76	Static	2718.39	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-30	903884	Sierrita	3525926.812	496682.307	3232.45	11/10/06		422.78		2809.67	Sierrita
						1/9/07		421.65		2810.80	
						4/9/07		419.32		2813.13	
						7/11/07		416.85		2815.60	
						10/2/07		416.95		2815.50	
						1/18/08		417.34		2815.11	
						4/8/08		418.12		2814.33	
						7/1/08		417.71		2814.74	
						10/6/08		417.11		2815.34	
						1/7/09		416.37		2816.08	
						4/7/09		415.10		2817.35	
						4/15/10		412.03		2820.42	
						5/17/11		412.18		2820.27	
						4/26/12		420.61		2811.84	
						6/6/13		427.36		2805.09	
						3/12/14		429.01		2803.44	
						4/8/14		429.46		2802.99	
						5/14/14		429.47		2802.98	
						6/24/14		429.48		2802.97	
						7/29/14		430.12		2802.33	
						8/8/14		430.23		2802.22	
						9/9/14		430.41	Static	2802.04	
						10/28/14		451.78		2780.67	
						11/26/14		430.82		2801.63	
						12/20/14		436.19	Static	2796.26	
						1/29/15		440.11	Static	2792.34	
						2/27/15		442.88	Static	2789.57	
						3/26/15		431.34	Static	2801.11	
						4/21/15		431.27	Static	2801.18	
						5/21/15		431.31	Static	2801.14	
						6/2/15		431.28	Static	2801.17	
						7/23/15		431.55	Static	2800.90	
						8/25/15		431.70	Static	2800.75	
						11/2/15		431.92	Static	2800.53	
						1/7/16		432.06	Static	2800.39	Sierrita
						2/11/16		432.00	Static	2800.45	Sierrita
						3/11/16		431.97	Static	2800.48	Sierrita
						4/5/16		430.31	Static	2802.14	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-1A	907342	Sierrita	3529331.380	500016.947	2967.65	7/30/07		425.87		2541.78	Sierrita
						10/9/07		428.32		2539.33	
						1/24/08		426.32		2541.33	
						4/9/08		424.72		2542.93	
						7/14/08		428.42		2539.23	
						10/17/08		431.02		2536.63	
						1/16/09		428.90		2538.75	
						4/1/09		426.86		2540.79	
						7/1/09		426.90		2540.75	
						10/22/09		434.05		2533.60	
						4/16/10		428.89		2538.76	
						10/13/10		434.09		2533.56	
						5/5/11		429.31		2538.34	
						10/6/11		433.60		2534.05	
						6/12/12		431.38		2536.27	
						10/24/12		435.12		2532.53	
						4/8/13		429.69		2537.96	
						10/23/13		435.06		2532.59	
						3/12/14		435.92		2531.73	
						4/29/14		437.74		2529.91	
						5/8/14		437.72		2529.93	
						6/9/14		440.59		2527.06	
						7/28/14		443.83		2523.82	
						8/7/14		444.58		2523.07	
						9/8/14		445.78	Static	2521.87	
						10/28/14		448.18		2519.47	
						11/12/14		448.42		2519.23	
						12/16/14		448.63	Static	2519.02	
						1/29/15		448.74	Static	2518.91	
						2/27/15		448.80	Static	2518.85	
						3/12/15		448.48	Static	2519.17	
						4/22/15		449.85	Static	2517.80	
						5/21/15		450.06	Static	2517.59	
						6/1/15		450.21	Static	2517.44	
						7/23/15		454.05	Static	2513.60	
						8/25/15		455.41	Static	2512.24	
						10/20/15		456.84	Static	2510.81	
						11/6/15		456.90	Static	2510.75	
						1/7/16		456.62	Static	2511.03	Sierrita
						2/12/16		455.97	Static	2511.68	Sierrita
						3/7/16		455.84	Static	2511.81	Sierrita
						4/7/16		456.52	Static	2511.13	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-1B	907210	Sierrita	3529325.119	500021.574	2966.82	7/30/07		425.67		2541.15	Sierrita
						10/9/07		429.20		2537.62	
						1/24/08		426.41		2540.41	
						4/9/08		425.05		2541.77	
						7/14/08		428.98		2537.84	
						10/17/08		431.64		2535.18	
						1/16/09		429.05		2537.77	
						4/1/09		427.23		2539.59	
						7/1/09		427.70		2539.12	
						10/22/09		434.90		2531.92	
						4/16/10		429.13		2537.69	
						10/13/10		434.47		2532.35	
						5/5/11		429.65		2537.17	
						10/6/11		434.10		2532.72	
						6/12/12		431.95		2534.87	
						10/24/12		435.62		2531.20	
						4/8/13		429.03		2537.79	
						10/23/13		435.71		2531.11	
						3/12/14		436.56		2530.26	
						4/29/14		438.64		2528.18	
						5/8/14		438.67		2528.15	
						6/9/14		441.65		2525.17	
						7/28/14		444.85		2521.97	
						8/7/14		445.81		2521.01	
						9/8/14		446.61	Static	2520.21	
						10/28/14		448.92		2517.90	
						11/12/14		449.05		2517.77	
						12/16/14		449.19	Static	2517.63	
						1/29/15		449.18	Static	2517.64	
						2/27/15		449.19	Static	2517.63	
						3/12/15		448.97	Static	2517.85	
						4/22/15		450.52	Static	2516.30	
						5/21/15		451.10	Static	2515.72	
						6/1/15		451.56	Static	2515.26	
						7/23/15		454.96	Static	2511.86	
						8/25/15		456.16	Static	2510.66	
						10/20/15		457.46	Static	2509.36	
						11/6/15		457.51	Static	2509.31	
						1/7/16		456.88	Static	2509.94	Sierrita
						2/12/16		456.39	Static	2510.43	Sierrita
						3/7/16		456.05	Static	2510.77	Sierrita
						4/7/16		457.18	Static	2509.64	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-1C	907209	Sierrita	3529328.959	500013.405	2968.58	7/30/07		423.87		2544.71	Sierrita
						10/9/07		427.02		2541.56	
						1/24/08		424.00		2544.58	
						4/9/08		423.30		2545.28	
						7/14/08		426.73		2541.85	
						10/21/08		429.49		2539.09	
						1/16/09		426.75		2541.83	
						4/1/09		424.90		2543.68	
						7/1/09		428.81		2539.77	
						10/22/09		427.60		2540.98	
						4/16/10		426.93		2541.65	
						10/13/10		431.88		2536.70	
						4/20/11		427.32		2541.26	
						10/6/11		431.80		2536.78	
						6/12/12		429.40		2539.18	
						10/24/12		433.08		2535.50	
						4/8/13		426.50		2542.08	
						10/23/13		433.06		2535.52	
						3/12/14		434.69		2533.89	
						4/29/14		437.08		2531.50	
						5/8/14		436.98		2531.60	
						6/9/14		440.40		2528.18	
						7/28/14		443.49		2525.09	
						8/7/14		444.30		2524.28	
						9/8/14		445.02	Static	2523.56	
						10/28/14		447.53		2521.05	
						11/12/14		447.62		2520.96	
						12/16/14		447.70	Static	2520.88	
						1/29/15		447.80	Static	2520.78	
						2/27/15		447.84	Static	2520.74	
						3/12/15		447.72	Static	2520.86	
						4/22/15		449.56	Static	2519.02	
						5/21/15		450.74	Static	2517.84	
						6/1/15		451.18	Static	2517.40	
						7/23/15		454.01	Static	2514.57	
						8/25/15		455.18	Static	2513.40	
						10/20/15		456.30	Static	2512.28	
						11/6/15		456.67	Static	2511.91	
						1/7/16		455.64	Static	2512.94	Sierrita
						2/12/16		455.31	Static	2513.27	Sierrita
						3/7/16		455.12	Static	2513.46	Sierrita
						4/7/16		456.31	Static	2512.27	Sierrita
MO-2007-2	906765	Sierrita	3527621.102	497912.410	3153.83	8/9/07		575.30		2578.53	Sierrita
						10/9/07		576.60		2577.23	
						1/22/08		577.22		2576.61	
						4/17/08		576.65		2577.18	
						7/14/08		577.35		2576.48	
						10/17/08		578.54		2575.29	
						1/15/09		579.10		2574.73	
						4/1/09		578.38		2575.45	
						4/13/10		580.50		2573.33	
						4/27/11		581.41		2572.42	
						5/2/12		581.75		2572.08	
						4/8/13		582.45		2571.38	
						3/12/14		592.12		2561.71	
						4/9/14		591.93		2561.90	
						5/8/14		590.86		2562.97	
						6/9/14		600.45		2553.38	
						7/28/14		604.52		2549.31	
						8/7/14		605.29		2548.54	
						9/8/14		607.39	Static	2546.44	
						10/28/14		610.63		2543.20	
						11/26/14		612.53		2541.30	
						12/16/14		613.88	Static	2539.95	
						1/29/15		615.76	Static	2538.07	
						2/17/15		616.21	Static	2537.62	
						3/12/15		617.30	Static	2536.53	
						4/7/15		618.25	Static	2535.58	
						5/21/15		619.83	Static	2534.00	
						6/1/15		620.29	Static	2533.54	
						7/22/15		621.75	Static	2532.08	
						8/14/15		622.49	Static	2531.34	
						11/18/15		625.66	Static	2528.17	
						1/7/16		UTM	Static	NA	Sierrita
						2/11/16		UTM	Static	NA	Sierrita
						3/7/16		UTM	Static	NA	Sierrita
						6/8/16		UTM	Static	NA	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-3B[2]	906816	Sierrita	3528508.801	500522.491	2912.15	9/10/07		359.38		2552.77	Sierrita
						10/9/07		359.55		2552.60	
						1/21/08		357.13		2555.02	
						4/16/08		357.10		2555.05	
						7/14/08		358.71		2553.44	
						10/22/08		361.77		2550.38	
						1/19/09		358.95		2553.20	
						4/1/09		357.70		2554.45	
						7/27/09		361.21		2550.94	
						10/22/09		365.50		2546.65	
						3/11/10		359.36		2552.79	
						4/14/10		360.30		2551.85	
						7/21/10		362.20		2549.95	
						10/26/10		364.82		2547.33	
						1/18/11		361.99		2550.16	
						5/4/11		361.59		2550.56	
						7/6/11		363.80		2548.35	
						11/22/11		365.10		2547.05	
						1/11/12		363.36		2548.79	
						5/8/12		362.09		2550.06	
						8/7/12		363.87		2548.28	
						1/8/13		362.33		2549.82	
						4/9/13		360.13		2552.02	
						5/21/13		359.84		2552.31	
						8/27/13		365.16		2546.99	
						10/24/13		366.19		2545.96	
						1/7/14		364.11		2548.04	
						3/12/14		368.18		2543.97	
						4/16/14		369.34		2542.81	
						5/14/14		369.35		2542.80	
						6/23/14		369.35		2542.80	
						7/1/14		375.64		2536.51	
						7/8/14		375.64		2536.51	
						8/8/14		377.48		2534.67	
						9/9/14		378.82	Static	2533.33	
						10/29/14		379.96		2532.19	
						11/13/14		381.17		2530.98	
						12/17/14		382.07	Static	2530.08	
						1/21/15		382.22	Static	2529.93	
						2/27/15		382.40	Static	2529.75	
						3/26/15		382.99	Static	2529.16	
						4/27/15		384.26	Static	2527.89	
						5/21/15		385.07	Static	2527.08	
						6/2/15		385.86	Static	2526.29	
						7/7/15		388.29	Static	2523.86	
						8/14/15		390.46	Static	2521.69	
						10/21/15		390.68	Static	2521.47	
						11/2/15		390.72	Static	2521.43	
						1/4/16		391.00	Static	2521.15	Sierrita
						2/11/16		391.06	Static	2521.09	Sierrita
						3/11/16		391.15	Static	2521.00	Sierrita
						4/11/16		392.36	Static	2519.79	Sierrita
						7/6/16		395.89	Static	2516.26	Sierrita
						8/24/16		397.00	Static	2515.15	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-3C	906817	Sierrita	3528508.743	500529.713	2911.90	7/5/07		356.30		2555.60	Sierrita
						10/10/07		359.85		2552.05	
						1/21/08		356.74		2555.16	
						4/15/08		357.18		2554.72	
						7/14/08		359.84		2552.06	
						10/21/08		361.99		2549.91	
						1/19/09		359.61		2552.29	
						4/1/09		358		2553.90	
						7/22/09		362		2549.90	
						10/22/09		362.80		2549.10	
						3/11/10		359.62		2552.28	
						4/14/10		360.45		2551.45	
						7/21/10		367.50		2544.40	
						10/26/10		365.13		2546.77	
						1/18/11		361.62		2550.28	
						5/4/11		361.61		2550.29	
						7/6/11		363.75		2548.15	
						10/5/11		365.50		2546.40	
						1/11/12		363.36		2548.54	
						5/7/12		362.35		2549.55	
						8/7/12		364.49		2547.41	
						10/10/12		366.50		2545.40	
						1/8/13		362.59		2549.31	
						4/9/13		360.45		2551.45	
						8/27/13		365.47		2546.43	
						10/24/13		366.79		2545.11	
						1/7/14		364.19		2547.71	
						3/12/14		368.09		2543.81	
						4/16/14		369.60		2542.30	
						5/14/14		369.63		2542.27	
						6/23/14		369.65		2542.25	
						7/1/14		376.55		2535.35	
						7/9/14		376.55		2535.35	
						8/8/14		377.79		2534.11	
						9/9/14		379.28	Static	2532.62	
						10/29/14		380.51		2531.39	
						11/13/14		381.92		2529.98	
						12/17/14		383.22	Static	2528.68	
						1/21/15		381.99	Static	2529.91	
						2/27/15		382.14	Static	2529.76	
						3/26/15		383.42	Static	2528.48	
						4/27/15		384.85	Static	2527.05	
						5/21/15		385.50	Static	2526.40	
						6/2/15		386.10	Static	2525.80	
						7/7/15		389.01	Static	2522.89	
						8/14/15		391.60	Static	2520.30	
						10/21/15		391.47	Static	2520.43	
						11/2/15		391.43	Static	2520.47	
						1/4/16		391.32	Static	2520.58	Sierrita
						2/11/16		391.29	Static	2520.61	Sierrita
						3/11/16		391.35	Static	2520.55	Sierrita
						4/11/16		392.60	Static	2519.30	Sierrita
						7/6/16		396.00	Static	2515.90	Sierrita
						8/24/16		397.63	Static	2514.27	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-4A	907213	Sierrita	3525634.956	500383.682	2923.63	10/9/07		307.67		2615.96	Sierrita
						1/22/08		303.85		2619.78	
						4/16/08		305.46		2618.17	
						7/17/08		308.05		2615.58	
						10/22/08		309.65		2613.98	
						1/19/09		306.28		2617.35	
						4/2/09		306.69		2616.94	
						7/1/09		307.92		2615.71	
						10/26/09		309.10		2614.53	
						1/26/10		308.52		2615.11	
						4/14/10		308.53		2615.10	
						7/21/10		311.05		2612.58	
						10/13/10		312.00		2611.63	
						1/19/11		308.82		2614.81	
						5/4/11		309.68		2613.95	
						7/6/11		311.75		2611.88	
						10/5/11		312.50		2611.13	
						1/17/12		310.05		2613.58	
						5/7/12		310.42		2613.21	
						8/13/12		313.30		2610.33	
						10/23/12		314.17		2609.46	
						2/21/13		311.70		2611.93	
						4/10/13		312.68		2610.95	
						7/10/13		316.31		2607.32	
						10/22/13		318.07		2605.56	
						1/10/14		316.34		2607.29	
						3/12/14		319.78		2603.85	
						4/8/14		321.40		2602.23	
						5/6/14		321.36		2602.27	
						6/23/14		321.33		2602.30	
						7/8/14		329.06		2594.57	
						8/8/14		331.16		2592.47	
						9/9/14		332.77	Static	2590.86	
						10/29/14		334.28		2589.35	
						11/12/14		335.68		2587.95	
						12/17/14		336.93	Static	2586.70	
						1/14/15		337.62	Static	2586.01	
						2/27/15		337.92	Static	2585.71	
						3/26/15		339.75	Static	2583.88	
						4/15/15		340.81	Static	2582.82	
						5/21/15		340.96	Static	2582.67	
						6/2/15		341.09	Static	2582.54	
						7/8/15		345.02	Static	2578.61	
						8/14/15		348.22	Static	2575.41	
						10/22/15		349.01	Static	2574.62	
						11/2/15		349.11	Static	2574.52	
						1/4/16		349.81	Static	2573.82	Sierrita
						2/11/16		349.90	Static	2573.73	Sierrita
						3/8/16		349.95	Static	2573.68	Sierrita
						4/7/16		351.76	Static	2571.87	Sierrita
						7/5/16		355.00	Static	2568.63	Sierrita
						8/24/16		357.00	Static	2566.63	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-4B	907212	Sierrita	3525613.952	500380.947	2923.57	10/11/07		308.72		2614.85	Sierrita
						1/7/08		304.22		2619.35	
						4/16/08		306.48		2617.09	
						7/18/08		308.95		2614.62	
						10/22/08		310.77		2612.80	
						1/21/09		306		2617.57	
						4/2/09		306.72		2616.85	
						7/1/09		309.1		2614.47	
						10/26/09		313.00		2610.57	
						1/26/10		308.29		2615.28	
						4/14/10		308.79		2614.78	
						7/21/10		311.22		2612.35	
						10/13/10		312.39		2611.18	
						1/19/11		308.84		2614.73	
						5/4/11		310.40		2613.17	
						7/6/11		312.85		2610.72	
						10/5/11		313.50		2610.07	
						1/17/12		309.81		2613.76	
						5/7/12		311.47		2612.10	
						8/13/12		314.42		2609.15	
						10/23/12		315.28		2608.29	
						2/21/13		311.79		2611.78	
						4/10/13		313.17		2610.40	
						7/10/13		317.96		2605.61	
						10/22/13		319.56		2604.01	
						1/10/14		316.92		2606.65	
						3/12/14		322.35		2601.22	
						4/8/14		324.09		2599.48	
						5/6/14		324.03		2599.54	
						6/23/14		324.00		2599.57	
						7/8/14		333.65		2589.92	
						8/8/14		335.20		2588.37	
						9/9/14		336.99	Static	2586.58	
						10/29/14		338.56		2585.01	
						11/12/14		339.10		2584.47	
						12/17/14		339.66	Static	2583.91	
						1/14/15		340.55	Static	2583.02	
						2/27/15		340.70	Static	2582.87	
						3/26/15		343.16	Static	2580.41	
						4/15/15		345.50	Static	2578.07	
						5/21/15		346.89	Static	2576.68	
						6/2/15		348.27	Static	2575.30	
						7/8/15		348.40	Static	2575.17	
						8/14/15		348.79	Static	2574.78	
						10/22/15		351.65	Static	2571.92	
						11/2/15		351.79	Static	2571.78	
						1/4/16		351.66	Static	2571.91	Sierrita
						2/11/16		351.63	Static	2571.94	Sierrita
						3/8/16		351.59	Static	2571.98	Sierrita
						4/7/16		354.90	Static	2568.67	Sierrita
						7/5/16		357.28	Static	2566.29	Sierrita
						8/24/16		360.30	Static	2563.27	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-4C	907211	Sierrita	3525624.484	500382.217	2923.66	8/12/07		307.13		2616.53	Sierrita
						10/12/07		308.78		2614.88	
						1/22/08		304.90		2618.76	
						4/16/08		306.75		2616.91	
						7/18/08		309.10		2614.56	
						10/22/08		311.41		2612.25	
						1/21/09		306.80		2616.86	
						4/2/09		311.49		2612.17	
						7/1/09		311.68		2611.98	
						10/26/09		311.30		2612.36	
						1/26/10		309.53		2614.13	
						4/14/10		309.58		2614.08	
						7/21/10		312.75		2610.91	
						10/13/10		313.49		2610.17	
						1/19/11		309.94		2613.72	
						5/4/11		311.53		2612.13	
						7/6/11		314.05		2609.61	
						10/5/11		314.80		2608.86	
						1/12/12		311.00		2612.66	
						5/7/12		312.37		2611.29	
						8/13/12		315.55		2608.11	
						10/23/12		316.47		2607.19	
						2/21/13		312.89		2610.77	
						4/10/13		314.14		2609.52	
						7/10/13		318.94		2604.72	
						10/22/13		320.63		2603.03	
						1/10/14		318.02		2605.64	
						3/12/14		323.88		2599.78	
						4/8/14		325.83		2597.83	
						5/6/14		325.81		2597.85	
						6/23/14		325.84		2597.82	
						7/8/14		335.70		2587.96	
						8/8/14		336.88		2586.78	
						9/9/14		338.81	Static	2584.85	
						10/29/14		340.60		2583.06	
						11/12/14		341.00		2582.66	
						12/17/14		341.53	Static	2582.13	
						1/14/15		342.40	Static	2581.26	
						2/27/15		342.47	Static	2581.19	
						3/26/15		344.92	Static	2578.74	
						4/15/15		347.40	Static	2576.26	
						5/21/15		349.11	Static	2574.55	
						6/2/15		350.79	Static	2572.87	
						7/8/15		350.81	Static	2572.85	
						8/14/15		350.93	Static	2572.73	
						10/22/15		353.38	Static	2570.28	
						11/2/15		353.47	Static	2570.19	
						1/4/16		353.36	Static	2570.30	Sierrita
						2/11/16		353.31	Static	2570.35	Sierrita
						3/8/16		353.28	Static	2570.38	Sierrita
						4/7/16		356.68	Static	2566.98	Sierrita
						7/5/16		359.00	Static	2564.66	Sierrita
						8/24/16		362.00	Static	2561.66	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-5B	907456	Sierrita	3523743.376	500013.850	2944.35	10/12/07		268.27		2676.08	Sierrita
						1/7/08		262.09		2682.26	
						4/17/08		266.22		2678.13	
						7/24/08		268.61		2675.74	
						10/23/08		272.16		2672.19	
						1/21/09		265.83		2678.52	
						4/2/09		269.20		2675.15	
						1/25/10		268.30		2676.05	
						4/27/10		268.02		2676.33	
						12/10/10		272.31		2672.04	
						6/24/11		275.70		2668.65	
						11/21/11		273.28		2671.07	
						6/20/12		277.46		2666.89	
						11/6/12		280.33		2664.02	
						6/12/13		288.32		2656.03	
						10/24/13		287.84		2656.51	
						3/12/14		287.24		2657.11	
						4/29/14		294.80		2649.55	
						5/14/14		294.78		2649.57	
						6/23/14		294.76		2649.59	
						7/28/14		299.29		2645.06	
						8/7/14		301.38		2642.97	
						9/8/14		302.31	Static	2642.04	
						10/15/14		300.14		2644.21	
						11/26/14		300.87		2643.48	
						12/17/14		301.43	Static	2642.92	
						1/29/15		301.89	Static	2642.46	
						2/27/15		302.08	Static	2642.27	
						3/18/15		303.65	Static	2640.70	
						4/28/15		307.69	Static	2636.66	
						5/21/15		309.80	Static	2634.55	
						6/2/15		311.87	Static	2632.48	
						7/24/15		311.80	Static	2632.55	
						8/25/15		312.19	Static	2632.16	
						11/4/15		312.41	Static	2631.94	
						1/7/16		309.68	Static	2634.67	Sierrita
						2/12/16		308.51	Static	2635.84	Sierrita
						3/8/16		308.22	Static	2636.13	Sierrita
						4/12/16		310.08	Static	2634.27	Sierrita
						9/21/16		316.53	Static	2627.82	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-5C	907457	Sierrita	3523736.459	500014.152	2944.91	8/23/07		294.04		2650.87	Sierrita
						10/13/07		289.70		2655.21	
						1/7/08		285.09		2659.82	
						4/17/08		281.52		2663.39	
						7/24/08		282.42		2662.49	
						10/23/08		285.03		2659.88	
						1/22/09		281.38		2663.53	
						5/13/09		282.35		2662.56	
						10/27/09		284.70		2660.21	
						4/27/10		276.49		2668.42	
						12/10/10		278.31		2666.60	
						5/24/11		278.21		2666.70	
						11/21/11		280.98		2663.93	
						6/18/12		281.66		2663.25	
						11/6/12		286.84		2658.07	
						6/13/13		292.47		2652.44	
						11/12/13		292.49		2652.42	
						3/12/14		291.79		2653.12	
						5/6/14		298.74		2646.17	
						6/23/14		298.76		2646.15	
						7/28/14		304.81		2640.10	
						8/7/14		305.34		2639.57	
						9/8/14		305.94	Static	2638.97	
						10/15/14		305.76		2639.15	
						11/26/14		305.90		2639.01	
						12/17/14		306.05	Static	2638.86	
						1/29/15		306.20	Static	2638.71	
						2/27/15		306.28	Static	2638.63	
						3/18/15		307.24	Static	2637.67	
						4/28/15		311.45	Static	2633.46	
						5/21/15		314.13	Static	2630.78	
						6/2/15		316.83	Static	2628.08	
						7/24/15		316.72	Static	2628.19	
						8/25/15		316.75	Static	2628.16	
						11/4/15		316.90	Static	2628.01	
						1/7/16		314.72	Static	2630.19	Sierrita
						2/12/16		313.11	Static	2631.80	Sierrita
						3/8/16		312.89	Static	2632.02	Sierrita
						6/9/16		316.98	Static	2627.93	Sierrita
						9/21/16		322.60	Static	2622.31	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-6A	907607	Sierrita	3521842.050	498367.161	3043.37	10/2/07		303.60		2739.77	Sierrita
						1/22/08		303.27		2740.10	
						4/18/08		304.02		2739.35	
						7/24/08		305.81		2737.56	
						10/23/08		307.85		2735.52	
						1/22/09		305.87		2737.50	
						4/2/09		304.87		2738.50	
						7/22/09		307.15		2736.22	
						10/26/09		307.00		2736.37	
						3/11/10		306.15		2737.22	
						4/21/10		306.44		2736.93	
						8/10/10		309.12		2734.25	
						10/26/10		308.95		2734.42	
						1/18/11		307.78		2735.59	
						5/5/11		308.13		2735.24	
						7/7/11		309.90		2733.47	
						10/6/11		311.10		2732.27	
						1/11/12		311.24		2732.13	
						6/12/12		314.95		2728.42	
						8/13/12		317.93		2725.44	
						10/18/12		316.94		2726.43	
						1/8/13		321.98		2721.39	
						4/9/13		323.05		2720.32	
						7/10/13		326.23		2717.14	
						10/22/13		329.74		2713.63	
						1/6/14		329.94		2713.43	
						3/12/14		329.85		2713.52	
						4/9/14		330.14		2713.23	
						5/14/14		330.12		2713.25	
						6/23/14		330.08		2713.29	
						7/8/14		331.19		2712.18	
						8/7/14		331.41		2711.96	
						9/8/14		331.78	Static	2711.59	
						10/29/14		331.92		2711.45	
						11/26/14		332.08		2711.29	
						12/2/14		331.73	Static	2711.64	
						1/8/15		332.23	Static	2711.14	
						2/27/15		332.26	Static	2711.11	
						3/18/15		331.64	Static	2711.73	
						4/16/15		332.31	Static	2711.06	
						5/21/15		332.86	Static	2710.51	
						6/2/15		333.38	Static	2709.99	
						7/2/15		335.11	Static	2708.26	
						8/25/15		335.91	Static	2707.46	
						10/19/15		336.37	Static	2707.00	
						11/5/15		336.32	Static	2707.05	
						1/18/16		335.74	Static	2707.63	Sierrita
						2/11/16		335.70	Static	2707.67	Sierrita
						3/8/16		335.80	Static	2707.57	Sierrita
						4/6/16		334.20	Static	2709.17	Sierrita
						7/5/16		332.08	Static	2711.29	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-6B	907606	Sierrita	3521849.495	498367.887	3043.05	10/4/07		319.17		2723.88	Sierrita
						1/21/08		314.78		2728.27	
						4/17/08		314.75		2728.30	
						7/24/08		317.04		2726.01	
						10/23/08		318.17		2724.88	
						1/22/09		316.58		2726.47	
						4/2/09		316.05		2727.00	
						7/22/09		317.49		2725.56	
						10/26/09		319.37		2723.68	
						3/11/10		316.58		2726.47	
						4/21/10		316.64		2726.41	
						8/10/10		318.40		2724.65	
						10/26/10		318.66		2724.39	
						1/18/11		317.52		2725.53	
						5/5/11		317.00		2726.05	
						7/7/11		318.58		2724.47	
						10/6/11		319.92		2723.13	
						1/11/12		320.03		2723.02	
						6/12/12		325.69		2717.36	
						8/13/12		329.12		2713.93	
						10/18/12		332.52		2710.53	
						1/8/13		333.92		2709.13	
						4/9/13		335.80		2707.25	
						7/10/13		337.52		2705.53	
						10/22/13		340.62		2702.43	
						1/6/14		340.62		2702.43	
						3/12/14		340.61		2702.44	
						4/9/14		340.98		2702.07	
						5/14/14		341.00		2702.05	
						6/23/14		341.04		2702.01	
						7/8/14		341.95		2701.10	
						8/7/14		342.50		2700.55	
						9/8/14		342.88	Static	2700.17	
						10/29/14		342.96		2700.09	
						11/26/14		343.11		2699.94	
						12/2/14		345.25		2697.80	
						1/8/15		346.10	Static	2696.95	
						2/27/15		346.87	Static	2696.18	
						3/18/15		346.11	Static	2696.94	
						4/16/15		347.00	Static	2696.05	
						5/21/15		347.39	Static	2695.66	
						6/2/15		347.75	Static	2695.30	
						7/2/15		350.24	Static	2692.81	
						8/25/15		351.57	Static	2691.48	
						10/19/15		351.41	Static	2691.64	
						11/5/15		351.30	Static	2691.75	
						1/18/16		351.95	Static	2691.10	Sierrita
						2/11/16		352.06	Static	2690.99	Sierrita
						3/8/16		352.13	Static	2690.92	Sierrita
						4/6/16		350.88	Static	2692.17	Sierrita
						7/5/16		346.62	Static	2696.43	Sierrita
						8/17/16		346.51	Static	2696.54	Sierrita

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2009-1[2]	910458	Sierrita	3523369.438	500534.089	2890.78	6/2/09		226.35		2664.43	Sierrita
						7/29/09		222.46		2668.32	
						11/3/09		225.90		2664.88	
						1/25/10		212.26		2678.52	
						4/20/10		219.94		2670.84	
						8/10/10		227.88		2662.90	
						12/15/10		215.16		2675.62	
						2/2/11		214.99		2675.79	
						6/16/11		226.45		2664.33	
						8/31/11		223.97		2666.81	
						12/1/11		219.96		2670.82	
						1/11/12		222.55		2668.23	
						5/9/12		225.63		2665.15	
						8/15/12		234.23		2656.55	
						11/29/12		229.30		2661.48	
						1/8/13		229.63		2661.15	
						4/10/13		233.98		2656.80	
						7/11/13		238.53		2652.25	
						10/16/13		237.57		2653.21	
						1/6/14		236.58		2654.20	
						3/12/14		237.34		2653.44	
						4/24/14		248.16		2642.62	
						5/6/14		248.19		2642.59	
						6/23/14		248.22		2642.56	
						7/8/14		252.36		2638.42	
						8/7/14		254.35		2636.43	
						9/8/14		256.45	Static	2634.33	
						10/29/14		258.27		2632.51	
						11/26/14		259.64		2631.14	
						12/2/14		248.01		2642.77	
						1/13/15		248.22	Static	2642.56	
						2/27/15		250.14	Static	2640.64	
						3/26/15		251.42	Static	2639.36	
						4/15/15		262.15	Static	2628.63	
						5/21/15		266.63	Static	2624.15	
						6/2/15		269.42	Static	2621.36	
						7/7/15		268.50	Static	2622.28	
						8/14/15		268.44	Static	2622.34	
						10/20/15		254.32	Static	2636.46	
						11/2/15		253.14	Static	2637.64	
						1/6/16		252.71	Static	2638.07	Sierrita
						2/11/16		252.67	Static	2638.11	Sierrita
						3/8/16		252.51	Static	2638.27	Sierrita
						4/12/16		251.75	Static	2639.03	Sierrita
						7/5/16		255.42	Static	2635.36	Sierrita
MW-2016-5A	919635	Sierrita	3529727.195	500430.091	2927.07	8/10/16		427.25	Static	2499.82	Clear Creek
MW-2016-5B	919472	Sierrita	3529722.718	500444.102	2925.46	8/4/16		425.50	Static	2499.96	Clear Creek
MW-2016-06	919676	Sierrita	3529884.009	500056.237	2969.20	8/16/16		471.29	Static	2497.91	Clear Creek

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
NP-2[4]	624028	HGC	3528517.116	500582.904	2906.56	11/6/07		355.10		2551.46	
						1/11/08		353.67		2552.89	
						4/17/08		352.20		2554.36	
						7/11/08		355.10		2551.46	
						10/9/08		356.24		2550.32	
						2/9/09		355.00		2551.56	
						4/24/09		354.80		2551.76	
						9/22/09		358.90		2547.66	
						12/31/09		358.57		2547.99	
						2/17/10		357.20		2549.36	
						4/22/10		356.38		2550.18	
						8/5/10		357.93		2548.63	
						10/25/10		360.80		2545.76	
						1/19/11		358.68		2547.88	
						5/3/11		358.30		2548.26	
						7/18/11		359.72		2546.84	
						12/5/11		360.27		2546.29	
						3/21/12		358.10		2548.46	
						6/18/12		359.28		2547.28	
						8/15/12		360.45		2546.11	
						11/29/12		360.79		2545.77	
						2/20/13		356.92		2549.64	
						6/17/13		358.19		2548.37	Sierrita
						8/27/13		360.56		2546.00	
						10/30/13		362.56		2544.00	
						1/7/14		361.24		2545.32	
						3/12/14		363.18		2543.38	
						4/23/14		364.29		2542.27	
						5/14/14		364.22		2542.34	
						6/23/14		364.24		2542.32	
						7/1/14		368.67		2537.89	
						8/8/14		370.36		2536.20	
						9/9/14		372.75	Static	2533.81	
						10/13/14		374.58		2531.98	
						11/26/14		375.76		2530.80	
						12/17/14		376.89	Static	2529.67	
						1/14/15		377.12	Static	2529.44	
						2/27/15		377.25	Static	2529.31	
						3/26/15		377.65	Static	2528.91	
						4/28/15		UTM	Static	NA	
						5/21/15		UTM	Static	NA	
						6/2/15		UTM	Static	NA	
						7/23/15		UTM	Static	NA	
						8/25/15		UTM	Static	NA	
						11/2/15		UTM	Static	NA	
						1/14/16		UTM	Static	NA	Sierrita
						2/11/16		UTM	Static	NA	Sierrita
						3/11/16		UTM	Static	NA	Sierrita
						6/8/16		UTM	Static	NA	Sierrita
						8/23/16		392.03	Static	2514.53	Sierrita

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Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
PS-1	220861	Sierrita	3529128.00	499148.00	3040.665	12/30/11	497.01		Static		BW, 2015a
						12/30/11	517.69		Dynamic		BW, 2015a
						3/13/14		Obstructed		NA	Sierrita
						5/8/14		516.79	Dynamic	2523.88	Sierrita
						5/15/14		516.79	Dynamic	2523.88	Sierrita
						5/15/14	516.79		Dynamic		BW, 2015a
						5/22/14		525.44	Dynamic	2515.23	Sierrita
						5/22/14	525.44		Dynamic		BW, 2015a
						5/30/14	525.44		Dynamic		BW, 2015a
						6/5/14		525.25	Dynamic	2515.42	Sierrita
						6/5/14	525.25		Dynamic		BW, 2015a
						7/6/14		527.00	Dynamic	2513.67	Sierrita
						7/6/14	526.79		Dynamic		BW, 2015a
						7/31/14		527.40	Dynamic	2513.27	Sierrita
						7/31/14	527.40		Dynamic		BW, 2015a
						8/27/14		527.40	Dynamic	2513.27	Sierrita
						8/27/14	527.40		Dynamic		BW, 2015a
						10/1/14		517.95	Static	2522.72	Sierrita
						10/1/14	517.74		Static		BW, 2015a
						11/4/14		531.19	Dynamic	2509.48	Sierrita
						11/4/14	530.98		Dynamic		BW, 2015a
						12/2/14		532.05	Dynamic	2508.62	Sierrita
						12/2/14	531.84		Dynamic		BW, 2015a
						1/4/15		532.50	Dynamic	2508.17	Sierrita
						2/4/15		533.20	Dynamic	2507.47	Sierrita
						3/3/15		533.60	Dynamic	2507.07	Sierrita
						4/9/15		534.15	Dynamic	2506.52	Sierrita
						5/2/15		534.95	Dynamic	2505.72	Sierrita
						6/9/15		536.00	Dynamic	2504.67	Sierrita
						7/6/15		537.05	Dynamic	2503.62	Sierrita
						8/18/15		538.65	Dynamic	2502.02	Sierrita
						10/7/15		540.50	Dynamic	2500.17	Sierrita
						11/4/15		540.98	Dynamic	2499.69	Sierrita
						12/9/15		541.40	Dynamic	2499.27	Sierrita
						1/12/16		UTM	Static	NA	Sierrita
						4/8/16		542.50	Dynamic	2498.17	Sierrita
PS-2	220862	Sierrita	3529357.00	499318.00	3027.673	6/5/12	486.97		Static		BW, 2015a
						6/5/12	509.07		Dynamic		BW, 2015a
						1/15/14		507.18	Dynamic	2520.49	Sierrita
						1/15/14	507.18		Dynamic		BW, 2015a
						1/22/14		494.54	Dynamic	2533.13	Sierrita
						1/28/14	507.91		Dynamic		BW, 2015a
						2/5/14	506.02		Dynamic		BW, 2015a
						3/13/14		510.78	Dynamic	2516.89	Sierrita
						5/8/14		514.76	Dynamic	2512.91	Sierrita
						5/30/14	514.76		Dynamic		BW, 2015a
						6/5/14		514.95	Dynamic	2512.72	Sierrita
						6/5/14	514.95		Dynamic		BW, 2015a
						7/6/14		516.80	Dynamic	2510.87	Sierrita
						7/6/14	516.59		Dynamic		BW, 2015a
						7/31/14		518.30	Dynamic	2509.37	Sierrita
						7/31/14	518.30		Dynamic		BW, 2015a
						8/27/14		519.40	Dynamic	2508.27	Sierrita
						8/27/14	519.40		Dynamic		BW, 2015a
						10/1/14		507.20	Static	2520.47	Sierrita
						10/1/14	506.99		Static		BW, 2015a
						11/4/14		523.35	Dynamic	2504.32	Sierrita
						11/4/14	523.14		Dynamic		BW, 2015a
						12/2/14		523.80	Dynamic	2503.87	Sierrita
						12/2/14	523.59		Dynamic		BW, 2015a
						1/4/15		524.60	Dynamic	2503.07	Sierrita
						2/4/15		524.50	Dynamic	2503.17	Sierrita
						3/3/15		524.70	Dynamic	2502.97	Sierrita
						4/9/15		525.20	Dynamic	2502.47	Sierrita
						5/2/15		526.10	Dynamic	2501.57	Sierrita
						6/9/15		527.00	Dynamic	2500.67	Sierrita
						7/6/15		528.20	Dynamic	2499.47	Sierrita
						8/18/15		529.80	Dynamic	2497.87	Sierrita
						10/7/15		531.75	Dynamic	2495.92	Sierrita
						11/4/15		531.95	Dynamic	2495.72	Sierrita
						12/9/15		532.15	Dynamic	2495.52	Sierrita
						1/12/16		531.25	Dynamic	2496.42	Sierrita
						4/8/16		532.70	Dynamic	2494.97	Sierrita

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
PS-3	220863	Sierrita	3529350.00	499570.00	3006.351	5/14/12	466.60		Static		BW, 2015a
						5/14/12	490.30		Dynamic		BW, 2015a
						1/15/14		488.84	Dynamic	2517.51	Sierrita
						1/15/14	488.84		Dynamic		BW, 2015a
						1/22/14		488.23	Dynamic	2518.12	Sierrita
						1/22/14	488.23		Dynamic		BW, 2015a
						1/28/14	487.89		Dynamic		BW, 2015a
						2/5/14	490.26		Dynamic		BW, 2015a
						3/13/14		491.86	Dynamic	2514.49	Sierrita
						5/8/14		495.82	Dynamic	2510.53	Sierrita
						5/30/14	495.82		Dynamic		BW, 2015a
						6/5/14		495.90	Dynamic	2510.45	Sierrita
						6/5/14	495.90		Dynamic		BW, 2015a
						7/6/14		497.70	Dynamic	2508.65	Sierrita
						7/6/14	497.47		Dynamic		BW, 2015a
						7/31/14		498.90	Dynamic	2507.45	Sierrita
						7/31/14	498.90		Dynamic		BW, 2015a
						8/27/14		500.25	Dynamic	2506.10	Sierrita
						8/27/14	500.25		Dynamic		BW, 2015a
						10/1/14		486.45	Static	2519.90	Sierrita
						10/1/14	486.22		Static		BW, 2015a
						11/4/14		503.75	Dynamic	2502.60	Sierrita
						11/4/14	503.52		Dynamic		BW, 2015a
						12/2/14		504.20	Dynamic	2502.15	Sierrita
						12/2/14	503.97		Dynamic		BW, 2015a
						1/4/15		504.55	Dynamic	2501.80	Sierrita
						2/4/15		504.45	Dynamic	2501.90	Sierrita
						3/3/15		504.75	Dynamic	2501.60	Sierrita
						4/9/15		505.50	Dynamic	2500.85	Sierrita
						5/2/15		506.35	Dynamic	2500.00	Sierrita
						6/9/15		507.50	Dynamic	2498.85	Sierrita
						7/6/15		508.92	Dynamic	2497.43	Sierrita
						8/18/15		510.50	Dynamic	2495.85	Sierrita
						10/7/15		512.40	Dynamic	2493.95	Sierrita
						11/4/15		512.55	Dynamic	2493.80	Sierrita
						12/9/15		512.75	Dynamic	2493.60	Sierrita
						1/12/16		511.65	Dynamic	2494.70	Sierrita
						4/8/16		515.20	Dynamic	2491.15	Sierrita
PS-4	220864	Sierrita	3528830.00	499153.00	3045.74	7/6/12	497.85		Static		BW, 2015a
						7/6/12	508.95		Dynamic		BW, 2015a
						1/15/14		513.92	Dynamic	2531.82	Sierrita
						1/15/14	513.92		Dynamic		BW, 2015a
						1/22/14		514.38	Dynamic	2531.36	Sierrita
						1/22/14	514.38		Dynamic		BW, 2015a
						1/28/14	514.64		Dynamic		BW, 2015a
						2/5/14	515.45		Dynamic		BW, 2015a
						3/13/14		508.14	Dynamic	2537.60	Sierrita
						5/8/14		522.58	Dynamic	2523.16	Sierrita
						5/30/14	522.58		Dynamic		BW, 2015a
						6/5/14		523.05	Dynamic	2522.69	Sierrita
						6/5/14	523.05		Dynamic		BW, 2015a
						7/6/14		525.25	Dynamic	2520.49	Sierrita
						7/6/14	525.02		Dynamic		BW, 2015a
						7/31/14		526.30	Dynamic	2519.44	Sierrita
						7/31/14	526.30		Dynamic		BW, 2015a
						8/27/14		527.50	Dynamic	2518.24	Sierrita
						8/27/14	527.50		Dynamic		BW, 2015a
						10/1/14		520.05	Static	2525.69	Sierrita
						10/1/14	519.82		Static		BW, 2015a
						11/4/14		531.80	Dynamic	2513.94	Sierrita
						11/4/14	531.57		Dynamic		BW, 2015a
						12/2/14		532.60	Dynamic	2513.14	Sierrita
						12/2/14	532.37		Dynamic		BW, 2015a
						1/4/15		524.20	Dynamic	2521.54	Sierrita
						2/4/15		534.50	Dynamic	2511.24	Sierrita
						3/3/15		535.05	Dynamic	2510.69	Sierrita
						4/9/15		535.65	Dynamic	2510.09	Sierrita
						5/2/15		536.45	Dynamic	2509.29	Sierrita
						6/9/15		537.60	Dynamic	2508.14	Sierrita
						7/6/15		538.95	Dynamic	2506.79	Sierrita
						8/18/15		540.10	Dynamic	2505.64	Sierrita
						10/7/15		541.95	Dynamic	2503.79	Sierrita
						11/4/15		542.75	Dynamic	2502.99	Sierrita
						12/9/15		543.10	Dynamic	2502.64	Sierrita
						1/12/16		UTM	Static	NA	Sierrita
						4/8/16		544.90	Dynamic	2500.84	Sierrita

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PZ-7	561870	Sierrita	3526357.485	492533.171	3549.17	11/16/06		139.55		3409.62	Sierrita
						1/12/07		139.50		3409.67	
						4/9/07		139.65		3409.52	
						7/24/07		139.76		3409.41	
						10/16/07		139.49		3409.68	
						1/7/08		139.25		3409.92	
						4/28/08		139.59		3409.58	
						7/11/08		139.71		3409.46	
						10/14/08		139.73		3409.44	
						2/9/09		139.79		3409.38	
						4/6/09		139.80		3409.37	
						4/23/10		140.22		3408.95	
						5/18/11		140.62		3408.55	
						6/6/12		136.67		3412.50	
						6/10/13		136.91		3412.26	
						4/8/14		135.75		3413.42	
						4/21/15		136.49	Static	3412.68	
						11/18/15		138.20	Static	3410.97	
						4/26/16		138.28	Static	3410.89	Sierrita
PZ-8	561866	Sierrita	3524196.243	492972.681	3480.36	11/14/06		206.30		3274.06	Sierrita
						1/10/07		207.42		3272.94	
						4/17/07		198.52		3281.84	
						7/12/07		209.46		3270.90	
						10/5/07		205.30		3275.06	
						1/3/08		212.94		3267.42	
						4/8/08		217.43		3262.93	
						7/1/08		221.70		3258.66	
						10/8/08		222.49		3257.87	
						1/8/09		223.63		3256.73	
						4/8/09		224.72		3255.64	
						4/20/10		227.87		3252.49	
						4/19/11		228.73		3251.63	
						4/25/12		229.66		3250.70	
						6/10/13		230.86		3249.50	
						4/23/14		232.32		3248.04	
						4/24/14		232.59		3247.77	
						4/14/15		234.11	Static	3246.25	
						11/18/15		235.22	Static	3245.14	
						4/26/16		233.24	Static	3247.12	Sierrita
S-1	623111	Sierrita	3519084.973	499736.647	2920	6/19/15		167.21	Static	2752.79	Sierrita
						11/18/15		169.40	Static	2750.60	
						6/15/16		161.51	Static	2758.49	Sierrita
ST-6 (POE-006)	608530	Sierrita	3531352.523	501247.709	2855.88	6/18/15		356.25	Static[2]	2499.63	Sierrita
						11/25/15		353.30	Static[2]	2502.58	
						6/15/16		359.59	Static[2]	2496.29	Sierrita
TMM-1	616156	HGC	3529736.231	500018.323	2967.08	6/18/07		432.50		2534.58	Sierrita
						6/19/07		432.00		2535.08	
						10/4/07		437.58		2529.50	
						1/10/08		435.75		2531.33	
						4/18/08		433.30		2533.78	
						7/9/08		437.37		2529.71	
						10/9/08		439.80		2527.28	
						2/4/09		436.62		2530.46	
						4/21/09		433.35		2533.73	
						10/14/09		444.00		2523.08	
						4/20/10		436.99		2530.09	
						10/6/10		442.98		2524.10	
						4/21/11		437.13		2529.95	
						12/21/11		435.50		2531.58	
						5/15/12		438.57		2528.51	
						11/23/12		443.30		2523.78	
						6/19/13		439.14		2527.94	
						10/29/13		443.13		2523.95	
						4/23/14		442.13		2524.95	
						10/2/14		451.94	Static	2515.14	
						4/28/15		UTM	Static	NA	
						12/2/15		UTM	Static	NA	
						6/8/16		UTM	Static	NA	Sierrita
1225	634394	Sierrita	3530604.962	499665.892	3000.49	6/16/15		492.97	Static	2507.52	Sierrita
						11/17/15		496.96	Static	2503.53	
						6/15/16		497.61	Static	2502.88	Sierrita

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Well Name	ADWR 55 Registry Number	Survey Source	Universal Transverse Mercator, Northing (m)[1]	Universal Transverse Mercator, Easting (m)[1]	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bls)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
1350	NR	Sierrita	3528649.387	499296.387	3033.25	7/12/07		474.29		2558.96	Sierrita
						11/8/07		477.30		2555.95	
						1/9/08		477.00		2556.25	
						4/14/08		475.50		2557.75	
						8/7/08		477.88		2555.37	
						11/5/08		479.21		2554.04	
						1/19/09		477.33		2555.92	
						6/29/09		479.57		2553.68	
						5/28/10		478.78		2554.47	
						5/9/11		480.42		2552.83	
						6/29/12		479.57		2553.68	
						5/23/13		481.16		2552.09	
						4/29/14		Obstructed		NA	
						5/22/14		Obstructed		NA	
						5/28/14		494.95		2538.30	
						6/16/15		511.79	Static	2521.46	
						11/17/15		517.00	Static	2516.25	
						6/15/16		520.26	Static	2512.99	Sierrita
1759	634393	Sierrita	3531506.450	499666.525	2989.54	6/16/15		484.12	Static	2505.42	Sierrita
						11/17/15		487.52	Static	2502.02	
						6/15/16		488.00	Static	2501.54	Sierrita
2125	514015	Sierrita	3529511.399	497813.090	3253.98	6/16/15		736.98	Static	2517.00	Sierrita
						11/17/15		741.29	Static	2512.69	
						6/15/16		UTM	Static	NA	Sierrita

Notes:
[1] Universal Transverse Mercator, Zone 12 North American Datum 1983 (NAD83)
[2] Well was not pumping, however there may be residual drawdown due to pumping history at the well
[3] Measuring point elevation updated based on Google Earth 2016 aerial photo and elevation data
[4] Anomalous data removed for NP-2 (6/7/07; 8/13/07), MO-2007-3B (10/10/12), and MO-2009-1 (8/27/13)
ADWR = Arizona Department of Water Resources
BW = BasinWells
Clear Creek = Clear Creek Associates, PLC
CWC = Community Water Company of Green Valley
DRY = water level below depth of the screen
ft amsl = feet above mean sea level
ft bls = feet below land surface
ft bmp - feet below measuring point
GVDWID = Green Valley Domestic Water Improvement District
HGC = Hydro Geo Chem, Inc.
m = meters
ND = No elevation data
NA = Not applicable
NR = No Record
Sierrita = Freeport-McMoRan Sierrita, Inc.
TBPI = Twin Buttes Properties, Inc.
UTM = Unable to measure; designation includes physical limitations, not desaturation

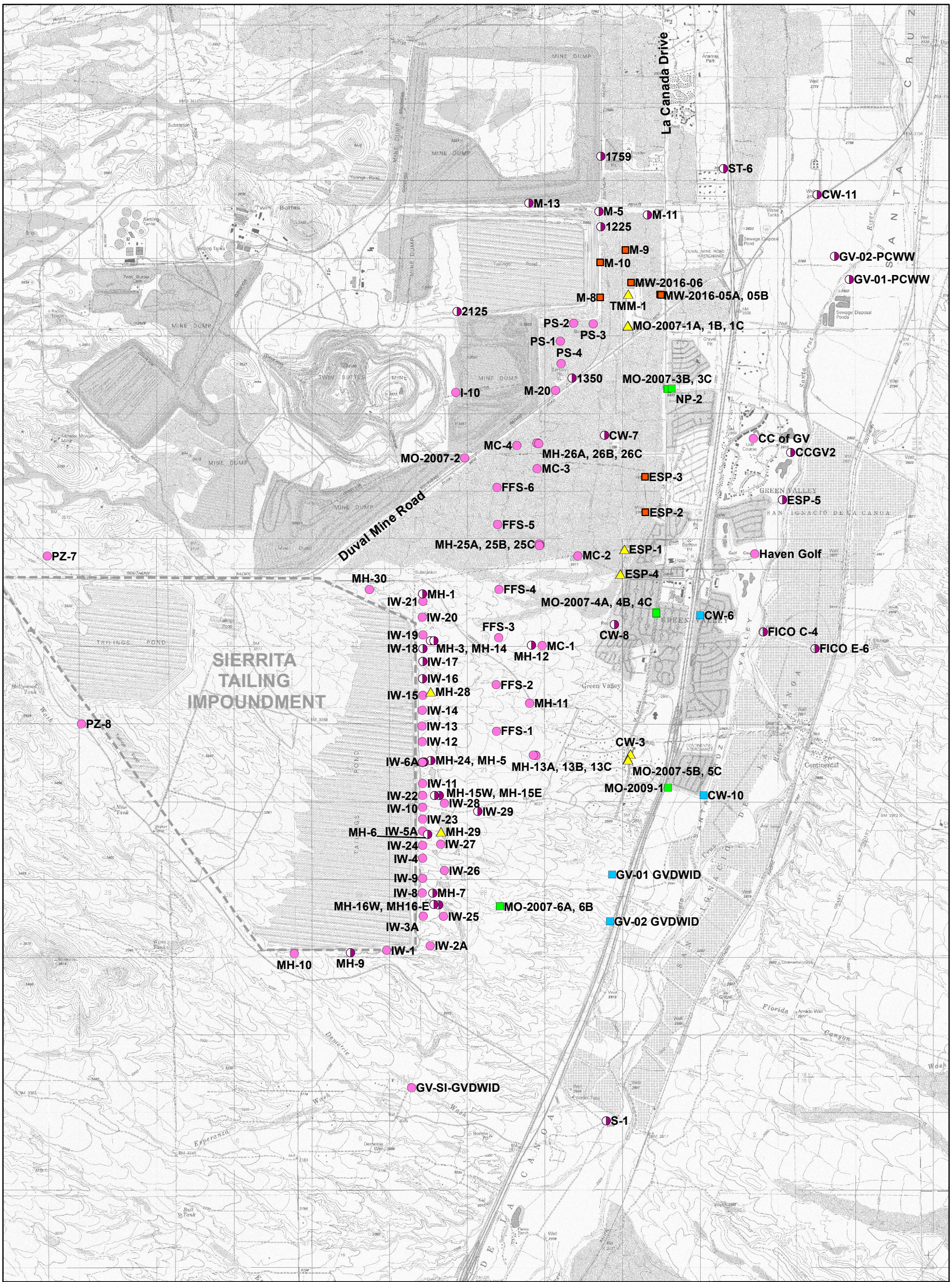
REFERENCES

BasinWells Associates. 2015a. Email Correspondence from Buck Schmidt, BasinWells Associates, to James Norris, Clear Creek Associates, Re: BasinWells Associates PLLC/FMI Sierrita Groundwater Sulfate Mitigation Action Well Field Measurements – October 2014. January 22, 2015.

BasinWells Associates. 2015b. Email Correspondence from Buck Schmidt, BasinWells Associates, to James Norris, Clear Creek Associates, Re: BasinWells Associates PLLC/FMI Sierrita Groundwater Sulfate Mitigation Action Well Field Measurements – October 2014. February 10, 2015.

Sierrita Environmental Data Management System Database.

FIGURES



Legend

- Annual Sampling (Second Quarter)
- Semi-Annual Water Level Only (Second and Fourth Quarters)
- Semi-Annual Sampling (Second and Fourth Quarters)
- Quarterly Sampling - Sentinel Well
- Quarterly Sampling - Drinking Water Supply Well
- Quarterly Sampling - Monitor Well (During Contingency Plan Only)

Scale

0 2,000 4,000 8,000

Feet

Date	File ID
10/3/16	055039-006C

CLEAR CREEK ASSOCIATES

FIGURE 1
Sampling Locations
and Frequency
for Post-Implementation
Groundwater Monitoring

M-9 49.0
M-10 NS
M-8 NS
TMM-1 NS
250
PS-3 1020
PS-2 1070
PS-1 1220
PS-4 1280
MO-2007-1A, 1B, 1C
460-600 18.6
740-900 NS
1020-1180 NS
MO-2007-3B, 3C
740-940 11.5
1160-1320 28.1
MH-26A, 26B, 26C
418-538DRY
620-730 NS
780-900 NS
I-10 NS
M-20 1750
NP-2 NS
CW-9 48.6
1500
MC-4 1340
CC of GV NS
MO-2007-2 NS
MC-3 1410
ESP-3 38.3
FFS-6 1270
DUVAL MINE RD
MH-25A, 25B, 25C
410-530 9.67/9.93
580-680 NS
731-901, 951-1081 NS
FFS-5 1470
ESP-2 32.7
ESP-1 NS
Haven Golf 99.5/101
PZ-7 441
MC-2 1150
ESP-4 385
MH-30 1910/1830
FFS-4 1380
IW-21 1990/1990
IW-20 NS
CW-6 92.6
IW-19 1980
FFS-3 1580
MC-1 1680
MO-2007-4A, 4B, 4C
360-560 41.1
669-939 1.10
1090-1130 58.4
MH-28 1760
FFS-2 1920
MH-13A, 13B, 13C
300-650 1050
750-950 1220
1050-1350<0.5
IW-15 2010
MH-11 1810
SIERRITA
TAILING
IMPOUNDMENT
PZ-8 422
IW-14 2040
IW-13 NS
FFS-1 1860/1880
CW-3, MO-2007-5B, 5C
182-500 81.1/70.0
660-960 413
1050-1350 NS
IW-12 1930
CW-3 61.70
IW-6A NS
MO-2009-1 23.5
IW-11 NS
IW-22 1930
IW-28 1840
CW-10 50.8
IW-10 NS
IW-29 NS
IW-23 NS
IW-5A NS
MH-29 NS
IW-24 1920
IW-27 1930
IW-4 1750
IW-26 1750
GV-01 GVDWID 40.9
IW-9 NS
IW-8 1940
IW-3A NS
IW-25 1220/1180
GV-02 GVDWID 52.8
IW-1 1430
MH-10 1560
MO-2007-6A, 6B
310-390, 430-610 8.26
780-940 NS
IW-2A 257
500
1000
1500
1500
1000
500
250
GV-SI-GVDWID 8.40/8.31

Legend

250 mg/L Sulfate Concentration Contour

IW-22 Well ID
1930 Sulfate Concentration (mg/L, Duplicate results separated by "/")

NS No Sample

Co-Located Wells
Screened Interval (ft bls):**Sulfate Concentration (mg/L)**

Well Symbols
- Extraction Well
- Monitor Well
- Sentinel Well
- Drinking Water Supply Well

mg/L = milligrams per liter
ft bls = feet below land surface

Scale
0 2,000 4,000 8,000
Feet

NOTE:
Projection:UTM NAD83 Zone 12N

Date: 8/9/16
File ID: 055039-187

CLEAR CREEK ASSOCIATES

FIGURE 2
Sulfate Concentrations
in Groundwater
Second Quarter 2016

M-9 10.6
M-10 NS
MW-2016-06 490
M-8 36.4
250
PS-3 1000/1020
PS-2 1040
PS-1 1190
PS-4 1280
M-20 NS
1500
DUVAL MINE RD
MC-4 1320
MC-3 1410
FFS-6 1250
500
FFS-5 1440/1520
1000
MC-2 1120
1500
FFS-4 1380
IW-21 1790
FFS-3 1580
MC-1 1700
MH-28 1920/1960
IW-15 1950
FFS-2 1940
SIERRITA TAILING IMPOUNDMENT
FFS-1 1820
IW-12 1640
IW-11 1820
IW-22 1850
IW-10 2010/1970
IW-28 1780
IW-24 1770
IW-4 1830
IW-27 1820
IW-26 1670
IW-8 1880
IW-2A 270
IW-1 1290
1500
1000
500
250

MW-2016-05A, 05B,
498-739 27
813-1101 46

NP-2, MO-2007-3B, 3C
331-500 45.9
740-940 <0.5
1160-1320 18.7

MH-26B, 26C
620-730 1720
780-900 1160

CW-9 47.5
CC of GV NS
ESP-3 38.0 / 37.8
ESP-2 31.9

MH-25B, 25C
580-680 1190
731-901, 951-1081 1160

CW-6 91.7

MO-2007-4A, 4B, 4C
360-560 41.5 / 42.1
669-939 3.06
1090-1130 53.7

MO-2007-5B, 5C
660-960 511
1050-1350 74.4

MO-2009-1 30.3
CW-10 54.4

GV-01 GVDWID 34.1
GV-02 GVDWID NS

MO-2007-6A, 6B
310-390, 430-610 6.74
780-940 28.5

Legend

Sulfate Concentration Contour

IW-22 Well ID

1850 Sulfate Concentration (milligrams per Liter, Duplicate results separated by "/")

NS No Sample (See Table 2 for Explanation)

Co-Located Wells

Screened Interval (feet below land surface): **Sulfate Concentration (mg/L)**

Well Symbols

- Extraction Well
- Monitor Well
- Sentinel Well
- Drinking Water Supply Well

NOTE:
Projection:UTM NAD83 Zone 12N

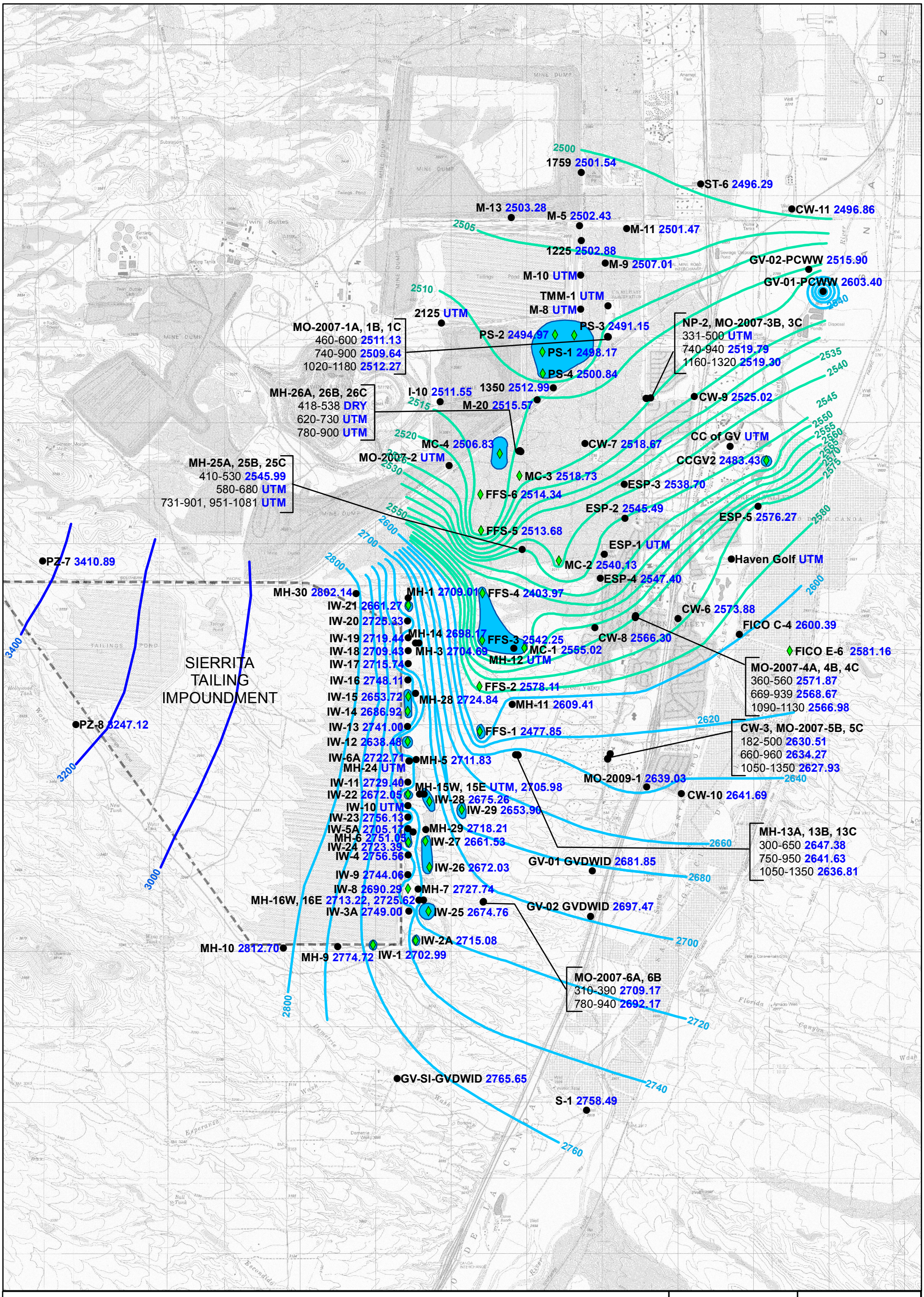
Scale
0 2,000 4,000 8,000
Feet

Date: 9/27/16

File ID: 055039-195

CLEAR CREEK ASSOCIATES

FIGURE 3
Sulfate Concentrations
in Groundwater
Third Quarter 2016



Legend

- Groundwater Depression
- 5 ft Groundwater Elevation (ft amsl)
- 20 ft Groundwater Contour (ft amsl)
- 200 ft Groundwater Contour (ft amsl)
- **CW-3** Well ID
- **2630.51** Groundwater Elevation (ft amsl)
- **UTM** Unable to Measure; designation includes physical limitations, not desaturation
- Co-Located Wells
- Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

0 2,000 4,000 8,000
Feet

Well labels

- Wells with Static Water Levels
- Wells with Dynamic Water Levels

ft amsl = feet above mean sea level
ft bls = feet below land surface

CLEAR CREEK ASSOCIATES

File ID
055039-186

Date
6/28/16

FIGURE 4
Groundwater Elevations
Second Quarter 2016

M-9 2500.18

M-10 UTM

MW-2016-06 2497.91

M-8 2502.78

MW-2016-05A, 05B,
498-739 2499.82
813-1101 2499.96

NP-2, MO-2007-3B, 3C
331-500 2514.33
740-940 2515.15
1160-1320 2514.27

CW-9 2503.53

MH-26B, 26C
620-730 2522.41
780-900 2519.33

ESP-3 2529.12

ESP-2 2543.05

MH-25B, 25C
580-680 2543.12
731-901, 951-1081 2542.38

CW-6 2568.30

SIERRITA
TAILING
IMPOUNDMENT

MH-28 2726.68

MO-2007-4A, 4B, 4C
360-560 2566.63
669-939 2563.27
1090-1130 2561.66

MO-2007-5B, 5C
660-960 2627.82
1050-1350 2622.31

MO-2009-1 2635.36

CW-10 2629.42

MH-29 2718.39

GV-01 GVDWID 2590.25

MH-16W 2714.04

GV-02 GVDWID 2684.47

E-9 2709.6

MO-2007-6A, 6B
310-390 2711.29
780-940 2696.54

Legend

Groundwater Depression

CW-10 Well ID
2629.42 Groundwater Elevation (ft amsl)
UTM Unable to measure: See Table 2 for explanation

0 2,000 4,000 8,000
Feet

Well labels

● Wells with Static Water Levels
♦ Wells with Dynamic Water Levels

ft amsl = feet above mean sea level
ft bls = feet below land surface

Co-Located Wells
Screened Interval (feet below land surface): Groundwater Elevation (ft amsl)

CLEAR CREEK ASSOCIATES

File ID
055039-196

Date
9/27/16

FIGURE 5
Groundwater Elevations
Third Quarter 2016

APPENDIX A

DATA VERIFICATION REPORT

APPENDIX A

DATA VERIFICATION REPORT

Prepared for:

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Prepared by:

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November 14, 2016

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1. INTRODUCTION

This report summarizes the data verification review of groundwater samples collected and analyzed during the second and third quarters 2016 by Freeport-McMoRan Sierrita Inc. (Sierrita) pursuant to the Mitigation Order on Consent Docket No. P-50-06. Most of the analytical results for groundwater samples collected during this reporting period were provided to Sierrita by ACZ Laboratories, Inc. (ACZ). Sierrita provided the water quality data to Clear Creek Associates for preparation of the Semiannual Groundwater Monitoring Report. Laboratory analytical results for the new wells, MW-2016-05A, MW-2016-05B, and MW-2016-06, were provided by Turner Laboratories Inc. (Turner). The initial sampling of these wells was conducted by Clear Creek Associates.

This report does not review field sampling or sample handling procedures for Sierrita. Sierrita collected samples following the methods in the *Quality Assurance/Quality Control (QA/QC) Plan for Water Monitoring, Phelps Dodge Sierrita, Inc.* (PDSI, 2005) in Appendix E of the Work Plan (Hydro Geo Chem, Inc. [HGC], 2006). Laboratory QA/QC data are evaluated according to the data quality indicators (DQIs) given in the Quality Assurance Project Plan (QAPP) (HGC, 2006).

Appendix B of the main text of this report contains laboratory reports for samples collected by Sierrita, including Chain of Custody (COC) forms, laboratory correspondence, QC summaries, data qualifiers, and any case narratives. The analytical results for all 134 samples collected are contained in 19 reports with the ACZ and Turner Project numbers in the following table.

The results of the internal QA/QC tests performed by ACZ and Turner are presented with the laboratory reports included in Appendix B. Based on the results of surrogate spike recoveries, matrix spike recovery, and matrix spike duplicate tests, ACZ and Turner did not advise any modifications to be made regarding the usability and data validation status of the laboratory test results.

ACZ/Turner Project ID	Wells Reported
Second Quarter 2016 Number of wells sampled: 61 Number of well samples collected (including duplicates and multiple samples from one well): 68 Number of duplicate samples collected: 7 Number of reanalyzed samples: 0 Total number of analyses: 68	
L29790	MH-30, MH-13A, MH-13B, MH-13C, MO-2007-6A, MO-2007-4B, MO-2007-4C, MO-2007-4A, MO-2007-1A, DUP20160405A
L29791	MH-28
L29966	MH-25A, MO-2007-3B, MO-2007-3C, MO-2007-5B, MO-2009-1, DUP20160411A
L30045	CW-9, CW-10, CW-6, GV-1, GV-2, SI WELL, DUP20160420A
L30158	M-9, PZ-8, PZ-7, M-20
L30438	PS-1, PS-2, PS-3, PS-4, RECLAIM POND, FFS-1, DUP20160509A
L30539	IW-21, IW-19, IW-15, IW-14, IW-12, IW-22, IW-28, IW-27, IW-24, IW-4, IW-26, IW-8, IW-25, IW-2A, IW-1, MH-11, DUP20160517A, DUP20160517B
L30540	FFS-2, MC-1, FFS-3, FFS-4, FFS-5, FFS-6, MC-3, MC-4, MC-2,
L30935	ESP-2, ESP-3, ESP-4, HAVEN GOLF, MH-10, CW-3, DUP20160608A
Third Quarter 2016 Number of wells sampled: 55 Number of well samples collected (including duplicates and multiple samples from one well): 61 Number of duplicate samples collected: 6 Number of reanalyzed samples: 0 Total number of analyses: 66	
L31531	MO-2007-6A, MO-2009-1, MO-2007-4B, MO-2007-4C, MO-2007-4A, MO-2007-3B, MO-2007-3C
L32458	MH-28, DUP20160816B
L32461	MO-2007-6B, FFS-1, FFS-2, PS-3, PS-2, PS-1, PS-4, DUP20160818A
L32607	CW-9, FFS-5, IW-24, IW-26, IW-4, FFS-3, IW-27, FFS-4, MC-2, MC-1, MC-3, FFS-6, CW-10, MC-4, CW-6, M-8
l32608	IW-15, IW-10, IW-21, IW-11, IW-12, IW-28, IW-8, IW-2A, IW-1, NP-2, MO-2007-4A, MO-2007-4B, MO-2007-4C, MO-2007-3B, MO-2007-3C, GV-1, M-9, DUP20160822A, DUP20160822B, DUP20160824A
L32822	IW-22, ESP-2, ESP-3, DUP20160907A
L33111	MO-2007-5B, MO-2007-5C, MH-26B, MH-26C, MH-25B, MH-25C
16H0340	MW-2016-5B
16H0486	MW-2016-5A
16H0644	MW-2016-06

2. LABORATORY QUALITY CONTROL

As specified in the QAPP, laboratory QC was maintained for all analyses through proper licensure, the use of approved analytical methods, QC measurements, appropriate turnaround time for analysis (timeliness), method detection limits (MDLs), and practical quantitation limits (PQLs). Each of these controls is discussed in the following subsections.

The review of laboratory QC included a review to identify any qualified data and an assessment of their significance. Additionally, the laboratory QC summaries were reviewed to verify that results met QA criteria.

2.1 Licensure

ACZ is licensed with the Arizona Department of Health Services (license number AZ0102) and is accredited in accordance with the National Environmental Laboratory Accreditation Conference. Turner is licensed with Arizona Department of Health Services (license number AZ0066).

2.2 Analytical Methods

The following methods were used for sulfate analysis during this monitoring period:

- U.S. Environmental Protection Agency (EPA) 300.0 (Ion-Chromatography)
- ASTM International Method D516-02/-07 (Turbidimetric)

2.3 Method Detection Limits (MDLs) and Practical Quantification Limits (PQLs)

The MDLs and PQLs of the analytical methods used by ACZ and Turner are shown in the following table assuming no sample dilution is needed. The MDLs for analyses of samples were equal to, or less than, the target MDLs identified in the QAPP.

Method	MDL (mg/L)	PQL (mg/L)	Target MDL[1] (mg/L)
EPA 300.0 ACZ	0.5	2.5	10
EPA 300.0 Turner	0.1	5.0	10
D516-02/-07	1	5	10

mg/L = milligrams per liter
[1] Target MDL from Table E.2 of QAPP

2.4 Timeliness

Holding time was derived from the EPA methods utilized and was calculated beginning from the time of sample collection in the field. All samples submitted for sulfate analysis were analyzed within the twenty-eight day holding time specified by each of the methods used for analysis.

2.5 Quality Control Measurements

The following laboratory QC samples were prepared and analyzed:

- Preparation blanks, calibration blanks, and calibration verification standards
- Analytical spikes and analytical spike duplicates
- Laboratory control samples
- Laboratory duplicate samples

2.5.1 Preparation Blanks, Calibration Blanks, and Calibration Verification Standards

Preparation blanks were run with each group of samples submitted for sulfate analysis. Preparation blanks were prepared from analyte-free water and treated as routine samples. Analytical results of the preparation blanks showed that the target analyte was not detected at the indicated MDL.

Initial calibration blanks and initial calibration verification standards were analyzed prior to each group of samples. The results for each initial calibration blank analyzed showed no detections of the target analyte. Analytical results for the initial calibration verification standards and laboratory-fortified blanks showed percent recoveries that were within the acceptance criteria specified by the laboratories and the QAPP.

2.5.2 Analytical Spikes and Analytical Spike Duplicates

Analytical spike and spike duplicate samples were analyzed for 10 percent of the samples analyzed. The spike samples were prepared by adding a sulfate spike to one randomly chosen sample out of every ten samples analyzed. Spike recoveries for most analyses were between 90 and 110 percent. Instances in which analytical spike recoveries were high, low or unusable are qualified with an "M1", "M2", or "M3" flag, respectively. The "M1" and "M2" qualifiers were not used in a report. The "M3" flag was used in the L29791 and L32458 ACQ reports and in the 16H0340, 16H0486, and 16H0644 Turner reports. In both cases where an "M3" qualifier was used, the method control sample recovery was checked to ensure that it was acceptable. The method control samples were prepared by adding a sulfate spike to de-ionized water.

2.5.3 Laboratory Control Samples

Laboratory control samples (also reported as laboratory fortified blanks) were run for each group of samples submitted for sulfate analysis following the analytical method. Recoveries for all laboratory control samples were within the acceptance criteria specified by ACZ and Turner.

2.5.4 Laboratory Duplicate Samples

Analyses of laboratory duplicate samples were reviewed as part of this data verification report. Field duplicate samples are discussed in Section 3.1. The relative percent difference (RPD) for all laboratory duplicate samples were within 20 percent, which is the tolerance range set by the laboratory. The RPD was not used for data validation if the sample concentration was less than ten times the method detection limit. In cases where the RPD was used for data validation based on laboratory standard operating procedure, the results met QA criteria and demonstrated appropriate levels of precision for laboratory analysis of these samples.

2.5.5 Sample Re-Analysis

During the second and third quarters 2016, no field samples were submitted for reanalysis.

3. DATA QUALITY INDICATORS

The QAPP provides DQIs for assessing the overall quality of the data. The DQIs include the following:

- Precision
- Bias
- Accuracy
- Representativeness
- Comparability
- Completeness
- Sensitivity

Each DQI is discussed below in relation to groundwater sampling and analysis conducted by Sierrita.

3.1 Precision

Precision indicates how well a measurement can be reproduced. Precision of the analytical results is quantified by calculating the RPD between duplicate samples. For the purposes of QA/QC, precision was quantified by calculating the RPDs between duplicates among the following groups of duplicate samples:

- Laboratory duplicate samples
- Field duplicate samples

As discussed in Sections 2.5.2 and 2.5.4, there were no exceedances of RPD QA criteria based on laboratory standard operating procedures for any laboratory duplicates. During this monitoring period, 12 field duplicate samples were collected by Sierrita for filtered sulfate analysis. Seven were collected in second quarter 2016 (DUP20160405A, DUP20160411A, DUP20160420A, DUP20160509A, DUP20160517A, DUP20160517B, and DUP20160608) and six were collected in the third quarter 2016 (DUP20160816B, DUP20160818A, DUP20160822A, DUP20160822B, DUP20160824A, and DUP20160907A). The collection of seven field duplicate samples in the second quarter 2016 and of six field duplicate samples in the third quarter of 2016 meets the QA/QC goal of collecting one duplicate sample for every ten

groundwater samples collected; as stated in Section 6 of Sierrita's quality assurance quality control plan.

Results of the field duplicate samples are provided in the table below. The range of RPD values was 0.00 to 5.41 percent, all within the 20 percent acceptance criteria for field duplicates; as stated in Section 3.3.1 of the QAPP. Overall, the DQI for precision is met.

ACZ Project No.	Well ID	Duplicate ID	Sample (mg/l)	Duplicate (mg/l)	RPD
L29790	MH-30	DUP20160405A	1910	1830	4.28%
L29966	MH-25A	DUP20160411A	9.67	9.93	2.65%
L30045	GV-SI-GVDWID	DUP20160420A	8.4	8.31	1.08%
L30438	FFS-1	DUP20160509A	1860	1880	1.07%
L30539	IW-21	DUP20160517A	1990	1990	0.00%
L30539	IW-25	DUP20160517B	1220	1180	3.33%
L30935	HAVEN GOLF	DUP20160608A	99.5	101	1.50%
L32458	MH-28	DUP20160816B	1920	1960	2.06%
L32461	PS-3	DUP20160818A	1000	1020	1.98%
L32608	FFS-5	DUP20160822A	1440	1520	5.41%
L32608	IW-10	DUP20160822B	2010	1970	2.01%
L32608	MO-2007-4A	DUP20160824A	41.5	42.1	1.44%
L32822	ESP-3	DUP20160907A	38	37.8	0.53%

mg/L = milligrams per liter
RPD = Relative Percent Difference

3.2 Bias

Bias is a systematic distortion of measurements causing consistent errors in one direction. Bias was managed in this dataset through consistent application of standardized sample collection and analysis procedures.

3.3 Accuracy

Accuracy is a measure of the agreement of a measurement to a known value and is determined using the recoveries from laboratory control samples. As discussed in Sections 2.5.1, 2.5.2, and 2.5.3 respectively, there were no significant exceedances of the recovery QA criteria for any of

the calibration standards, analytical spikes, or laboratory control standards. Based on this information, the overall accuracy of the data is sufficient for the purpose of aquifer characterization.

3.4 Representativeness

All well samples were taken from locations specified in the Post-Implementation Groundwater Monitoring Plan (Clear Creek Associates, 2013) using sampling procedures specified in the QAPP. Therefore, the samples provide a good representation of groundwater quality at the locations. The analytical data are representative of groundwater conditions because the analyses were conducted using standard procedures and methods that met QA/QC guidelines of the QAPP.

3.5 Comparability

All samples were collected using standardized procedures (PDSI, 2005) and were analyzed by ACZ and Turner using standardized methods. Insofar as standardized sample collection and analytical methods are adhered to, the sample results should be comparable.

3.6 Completeness

All samples collected by Sierrita were subsequently analyzed and reported by ACZ. All samples analyzed by ACZ and Turner satisfy the QA/QC criteria for this project and are usable for aquifer characterization. Thus, the completeness of analytical results is 100 percent.

3.7 Sensitivity

The analytical methods used to analyze the samples meet the MDL requirements specified in Table E.2 of the QAPP. Therefore, the analytical sensitivity is considered acceptable for use in aquifer characterization.

4. REFERENCES

Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

Hydro Geo Chem, Inc. (HGC). 2006. Work Plan to Characterize and Mitigate Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Phelps Dodge Sierrita Tailing Impoundment, Pima County, Arizona. August 11, 2006, revised October 31, 2006.

Phelps Dodge Sierrita, Inc. (PDSI). 2005. Quality Assurance/Quality Control Plan for Water Monitoring, Phelps Dodge Sierrita, Inc. June 2005.

APPENDIX B

ANALYTICAL DATA REPORTS

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

Analytical Report

April 22, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L29790

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 08, 2016. This project has been assigned to ACZ's project number, L29790. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L29790. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 22, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-30

ACZ Sample ID: ***L29790-01***
Date Sampled: *04/05/16 08:36*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	100	1910			mg/L	50	250	04/18/16 18:26	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-13A

ACZ Sample ID: ***L29790-02***
Date Sampled: *04/06/16 11:00*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1050			mg/L	10	50	04/18/16 19:02	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-13B

ACZ Sample ID: ***L29790-03***
Date Sampled: *04/06/16 12:11*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1220			mg/L	25	125	04/18/16 19:20	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-13C

ACZ Sample ID: ***L29790-04***
Date Sampled: *04/06/16 12:38*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1		U		mg/L	0.5	2.5	04/18/16 19:38	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-6A

ACZ Sample ID: ***L29790-05***
Date Sampled: *04/06/16 13:53*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	8.26			mg/L	0.5	2.5	04/18/16 19:56	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4B

ACZ Sample ID: ***L29790-06***
Date Sampled: *04/07/16 09:48*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	1.10	B		mg/L	0.5	2.5	04/18/16 20:50	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4C

ACZ Sample ID: ***L29790-07***
Date Sampled: *04/07/16 10:23*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	58.4			mg/L	0.5	2.5	04/18/16 21:08	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4A

ACZ Sample ID: ***L29790-08***
Date Sampled: *04/07/16 10:24*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	41.1			mg/L	0.5	2.5	04/19/16 14:46	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-1A

ACZ Sample ID: ***L29790-09***
Date Sampled: *04/07/16 11:41*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	18.6			mg/L	0.5	2.5	04/19/16 15:04	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160405A

ACZ Sample ID: ***L29790-10***
Date Sampled: *04/05/16 00:00*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1830			mg/L	25	125	04/19/16 15:22	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L29790***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG401581													
WG401581LFB1	LFB	04/18/16 17:33	WI151103-3	30		30.2	mg/L	101	90	110			
L29790-01AS	AS	04/18/16 18:44	WI151103-3	3000	1910	4880	mg/L	99	90	110			
L29860-01AS	AS	04/18/16 22:55	WI151103-3	3000	4150	6950	mg/L	93	90	110			
WG401581LFB2	LFB	04/19/16 2:12	WI151103-3	30		30.6	mg/L	102	90	110			
L29785-01DUP	DUP	04/19/16 14:28			69.4	69.4	mg/L				0	20	
L29790-10DUP	DUP	04/19/16 15:40			1830	1840	mg/L				1	20	

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L29790***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L29790***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L29790
Date Received: 04/08/2016 09:39
Received By: ddp
Date Printed: 4/8/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
4130	5.3	<=6.0	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L29790
Date Received:	04/08/2016 09:39
Received By:	ddp
Date Printed:	4/8/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

29790

CHAIN of CUSTODY

Report to:

Name: Jeff Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [ ] NO [ ]

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES [ ] NO [x]

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MH-30	4/5/16 : 0836	GW	1	x							
MH-13A	4/6/16 : 1100	GW	1	x							
MH-13B	4/6/16 : 1211	GW	1	x							
MH-13C	4/6/16 : 1238	GW	1	x							
MO-2007-6A	4/6/16 : 1353	GW	1	x							
MO-2007-4B	4/7/16 : 0948	GW	1	x							
MO-2007-4C	4/7/16 : 1023	GW	1	x							
MO-2007-4A	4/7/16 : 1024	GW	1	x							
MO-2007-1A	4/7/16 : 1141	GW	1	x							
DUP20160405A	4/5/16 : 0000	GW	1	x							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler 2 (Sulfates)
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 1001 363 6

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/7/16 : 1530		4/8/16 9:39

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L29790 Chain of Custody

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

Analytical Report

July 06, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

CC: Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729 - SULFATE ONLY
ACZ Project ID: L29791

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 08, 2016. This project has been assigned to ACZ's project number, L29791. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L29791. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 05, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-28

ACZ Sample ID: ***L29791-01***
Date Sampled: *04/05/16 10:00*
Date Received: *04/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02/-07 - Turbidimetric	50	1760		*	mg/L	50	250	04/12/16 14:12	krh

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L29791***

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401574													
WG401574ICV	ICV	04/18/16 17:40	MS160414-4	.02		.02115	mg/L	106	90	110			
WG401574ICB	ICB	04/18/16 17:43				U	mg/L		-0.0012	0.0012			
WG401574LFB	LFB	04/18/16 17:46	MS160303-3	.01001		.01047	mg/L	105	85	115			
L29775-04AS	AS	04/18/16 18:40	MS160303-3	.01001	U	.00875	mg/L	87	70	130			
L29775-04ASD	ASD	04/18/16 18:43	MS160303-3	.01001	U	.00939	mg/L	94	70	130	7	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401684													
WG401684ICV	ICV	04/21/16 11:54	MS160419-12	.05		.05136	mg/L	103	90	110			
WG401684ICB	ICB	04/21/16 11:56				U	mg/L		-0.0006	0.0006			
WG401684LFB	LFB	04/21/16 12:00	MS160419-4	.0501		.05339	mg/L	107	85	115			
L29792-01AS	AS	04/21/16 13:00	MS160419-4	.1002	.001	.11858	mg/L	117	70	130			
L29792-01ASD	ASD	04/21/16 13:03	MS160419-4	.1002	.001	.10918	mg/L	108	70	130	8	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401684													
WG401684ICV	ICV	04/21/16 11:54	MS160419-12	.05		.04917	mg/L	98	90	110			
WG401684ICB	ICB	04/21/16 11:56				U	mg/L		-0.00015	0.00015			
WG401684LFB	LFB	04/21/16 12:00	MS160419-4	.0501		.04969	mg/L	99	85	115			
L29792-01AS	AS	04/21/16 13:00	MS160419-4	.1002	U	.10252	mg/L	102	70	130			
L29792-01ASD	ASD	04/21/16 13:03	MS160419-4	.1002	U	.09904	mg/L	99	70	130	3	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401574													
WG401574ICV	ICV	04/18/16 17:40	MS160414-4	.05		.05236	mg/L	105	90	110			
WG401574ICB	ICB	04/18/16 17:43				U	mg/L		-0.0003	0.0003			
WG401574LFB	LFB	04/18/16 17:46	MS160303-3	.05005		.05195	mg/L	104	85	115			
L29775-04AS	AS	04/18/16 18:40	MS160303-3	.05005	U	.04506	mg/L	90	70	130			
L29775-04ASD	ASD	04/18/16 18:43	MS160303-3	.05005	U	.04808	mg/L	96	70	130	6	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401260													
WG401260ICV	ICV	04/14/16 13:17	II160325-1	2		1.997	mg/L	100	95	105			
WG401260ICB	ICB	04/14/16 13:23				U	mg/L		-0.03	0.03			
WG401260LFB	LFB	04/14/16 13:35	II160319-2	.5005		.492	mg/L	98	85	115			
L29801-01AS	AS	04/14/16 14:02	II160319-2	.5005	U	.474	mg/L	95	85	115			
L29801-01ASD	ASD	04/14/16 14:11	II160319-2	.5005	U	.48	mg/L	96	85	115	1	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L29791***

Cobalt, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401260													
WG401260ICV	ICV	04/14/16 13:17	II160325-1	2.002		1.946	mg/L	97	95	105			
WG401260ICB	ICB	04/14/16 13:23				U	mg/L		-0.03	0.03			
WG401260LFB	LFB	04/14/16 13:35	II160319-2	.498		.484	mg/L	97	85	115			
L29801-01AS	AS	04/14/16 14:02	II160319-2	.498	U	.46	mg/L	92	85	115			
L29801-01ASD	ASD	04/14/16 14:11	II160319-2	.498	U	.469	mg/L	94	85	115	2	20	

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401260													
WG401260ICV	ICV	04/14/16 13:17	II160325-1	2		1.946	mg/L	97	95	105			
WG401260ICB	ICB	04/14/16 13:23				U	mg/L		-0.03	0.03			
WG401260LFB	LFB	04/14/16 13:35	II160319-2	.501		.487	mg/L	97	85	115			
L29801-01AS	AS	04/14/16 14:02	II160319-2	.501	U	.471	mg/L	94	85	115			
L29801-01ASD	ASD	04/14/16 14:11	II160319-2	.501	U	.478	mg/L	95	85	115	1	20	

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401262													
WG401262ICV	ICV	04/12/16 10:39	WC160401-1	2		1.986	mg/L	99	95	105			
WG401262ICB	ICB	04/12/16 10:43				U	mg/L		-0.15	0.15			
WG401264													
WG401264ICV	ICV	04/12/16 11:46	WC160401-1	2		1.959	mg/L	98	95	105			
WG401264ICB	ICB	04/12/16 11:51				U	mg/L		-0.15	0.15			
WG401264LFB	LFB	04/12/16 11:58	WC151103-7	5		5.047	mg/L	101	90	110			
L29751-01AS	AS	04/12/16 12:04	WC151103-7	5	.28	5.169	mg/L	98	90	110			
L29751-01DUP	DUP	04/12/16 12:09			.28	.222	mg/L				23	20	RA

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401574													
WG401574ICV	ICV	04/18/16 17:40	MS160414-4	.05		.05177	mg/L	104	90	110			
WG401574ICB	ICB	04/18/16 17:43				U	mg/L		-0.0003	0.0003			
WG401574LFB	LFB	04/18/16 17:46	MS160303-3	.05005		.05008	mg/L	100	85	115			
L29775-04AS	AS	04/18/16 18:40	MS160303-3	.05005	.0013	.04997	mg/L	97	70	130			
L29775-04ASD	ASD	04/18/16 18:43	MS160303-3	.05005	.0013	.05263	mg/L	103	70	130	5	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401260													
WG401260ICV	ICV	04/14/16 13:17	II160325-1	100		101.08	mg/L	101	95	105			
WG401260ICB	ICB	04/14/16 13:23				U	mg/L		-0.6	0.6			
WG401260LFB	LFB	04/14/16 13:35	II160319-2	50.00605		47.8	mg/L	96	85	115			
L29801-01AS	AS	04/14/16 14:02	II160319-2	50.00605	7.7	54.63	mg/L	94	85	115			
L29801-01ASD	ASD	04/14/16 14:11	II160319-2	50.00605	7.7	55.72	mg/L	96	85	115	2	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L29791***

Molybdenum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401260													
WG401260ICV	ICV	04/14/16 13:17	II160325-1	2		2.012	mg/L	101	95	105			
WG401260ICB	ICB	04/14/16 13:23				U	mg/L		-0.06	0.06			
WG401260LFB	LFB	04/14/16 13:35	II160319-2	.4995		.466	mg/L	93	85	115			
L29801-01AS	AS	04/14/16 14:02	II160319-2	.4995	U	.488	mg/L	98	85	115			
L29801-01ASD	ASD	04/14/16 14:11	II160319-2	.4995	U	.482	mg/L	96	85	115	1	20	

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401574													
WG401574ICV	ICV	04/18/16 17:40	MS160414-4	.05		.04947	mg/L	99	90	110			
WG401574ICB	ICB	04/18/16 17:43				U	mg/L		-0.0018	0.0018			
WG401574LFB	LFB	04/18/16 17:46	MS160303-3	.05005		.04785	mg/L	96	85	115			
L29775-04AS	AS	04/18/16 18:40	MS160303-3	.05005	U	.03917	mg/L	78	70	130			
L29775-04ASD	ASD	04/18/16 18:43	MS160303-3	.05005	U	.04291	mg/L	86	70	130	9	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401468													
WG401468ICV	ICV	04/14/16 18:33	WI160304-5	2.416		2.44	mg/L	101	90	110			
WG401468ICB	ICB	04/14/16 18:35				U	mg/L		-0.02	0.02			
WG401472													
WG401472LFB	LFB	04/15/16 0:48	WI151215-9	2		2.109	mg/L	105	90	110			
L29791-01AS	AS	04/15/16 0:51	WI151215-9	2	.96	3.05	mg/L	105	90	110			
L29792-01DUP	DUP	04/15/16 1:29			21.8	21.71	mg/L				0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401225													
WG401225PBW	PBW	04/11/16 16:30				U	mg/L		-20	20			
WG401225LCSW	LCSW	04/11/16 16:32	PCN50247	260		248	mg/L	95	80	120			
L29792-03DUP	DUP	04/11/16 17:02			2240	2250	mg/L				0	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401684													
WG401684ICV	ICV	04/21/16 11:54	MS160419-12	.05		.04952	mg/L	99	90	110			
WG401684ICB	ICB	04/21/16 11:56				U	mg/L		-0.0003	0.0003			
WG401684LFB	LFB	04/21/16 12:00	MS160419-4	.0501		.04832	mg/L	96	85	115			
L29792-01AS	AS	04/21/16 13:00	MS160419-4	.1002	.0104	.1258	mg/L	115	70	130			
L29792-01ASD	ASD	04/21/16 13:03	MS160419-4	.1002	.0104	.11442	mg/L	104	70	130	9	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L29791***

Sulfate D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401276													
WG401276ICB	ICB	04/12/16 13:23				U	mg/L		-3	3			
WG401276ICV	ICV	04/12/16 13:23	WI160412-2	20		20.4	mg/L	102	90	110			
WG401276LFB1	LFB	04/12/16 13:33	WI160201-3	10.01		9.7	mg/L	97	90	110			
L29723-01DUP	DUP	04/12/16 13:39			109	110	mg/L				1	20	
L29757-01AS	AS	04/12/16 13:39	SO4TURB5X	10	96.6	105	mg/L	84	90	110			M3
WG401276LFB2	LFB	04/12/16 14:27	WI160201-3	10.01		9.8	mg/L	98	90	110			

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG401574													
WG401574ICV	ICV	04/18/16 17:40	MS160414-4	.05		.05244	mg/L	105	90	110			
WG401574ICB	ICB	04/18/16 17:43				U	mg/L		-0.0003	0.0003			
WG401574LFB	LFB	04/18/16 17:46	MS160303-3	.0501		.05021	mg/L	100	85	115			
L29775-04AS	AS	04/18/16 18:40	MS160303-3	.0501	U	.04825	mg/L	96	70	130			
L29775-04ASD	ASD	04/18/16 18:43	MS160303-3	.0501	U	.05063	mg/L	101	70	130	5	20	

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L29791***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L29791-01	WG401264	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG401225	Residue, Filterable (TDS) @180C	SM2540C	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
	WG401276	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L29791***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L29791
Date Received: 04/08/2016 09:39
Received By: ddp
Date Printed: 4/8/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
4130	5.3	<=6.0	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L29791
Date Received:	04/08/2016 09:39
Received By:	ddp
Date Printed:	4/8/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

29791

CHAIN of CUSTODY

Report to:

Name: Jeff Joy
Company: Freeport-McMoRan Sierrita
E-mail: jeff_joy@fmi.com
Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2269

Copy of Report to:

Name:
Company:
E-mail: bdaigneau@clearcreekassociates.com
Telephone: 520-622-3222

Invoice to:

Name:
Company:
E-mail:
Address:
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Quarterly
MH-28	4/5/16 : 1000	GW	3	x

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler 2 (APP-Sierrita)
UPS Tracking # 1Z 867 7E4 23 1001 363 6
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com (520-393-2347)

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/7/16 : 1530		4-8-16 9:39

L29791 Chain of Custody

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

Analytical Report

April 29, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L29966

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 16, 2016. This project has been assigned to ACZ's project number, L29966. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L29966. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 29, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-25A

ACZ Sample ID: ***L29966-01***
Date Sampled: *04/11/16 10:27*
Date Received: *04/16/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	9.67		*	mg/L	0.5	2.5	04/27/16 0:58	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3B

ACZ Sample ID: ***L29966-02***
Date Sampled: *04/11/16 12:33*
Date Received: *04/16/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	11.5		*	mg/L	0.5	2.5	04/27/16 1:16	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3C

ACZ Sample ID: ***L29966-03***
Date Sampled: *04/11/16 13:41*
Date Received: *04/16/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	28.1		*	mg/L	0.5	2.5	04/27/16 1:34	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-5B

ACZ Sample ID: ***L29966-04***
Date Sampled: *04/12/16 10:40*
Date Received: *04/16/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	413			mg/L	5	25	04/27/16 2:10	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2009-1

ACZ Sample ID: ***L29966-05***
Date Sampled: *04/12/16 12:23*
Date Received: *04/16/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	23.5			mg/L	0.5	2.5	04/27/16 17:08	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160411A

ACZ Sample ID: ***L29966-06***
Date Sampled: *04/11/16 00:00*
Date Received: *04/16/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	9.93			mg/L	0.5	2.5	04/27/16 18:20	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L29966***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396749													
WG396749ICV	ICV	01/05/16 18:18	WI151221-5	50.05		51.3	mg/L	102	90	110			
WG396749ICB	ICB	01/05/16 18:36				U	mg/L		-0.5	0.5			
WG401991													
WG401991LFB1	LFB	04/26/16 17:12	WI151103-3	30		30.6	mg/L	102	90	110			
L29938-03DUP	DUP	04/26/16 21:59			U	U	mg/L				0	20	RA
L29938-04AS	AS	04/26/16 22:35	WI151103-3	3000	U	3140	mg/L	105	90	110			
WG401991LFB2	LFB	04/27/16 1:52	WI151103-3	30		33	mg/L	110	90	110			
L29966-05DUP	DUP	04/27/16 17:26			23.5	23.5	mg/L				0	20	
L29966-06AS	AS	04/27/16 18:38	WI151103-3	30	9.93	42.8	mg/L	110	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L29966***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L29966-01	WG401991	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29966-02	WG401991	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L29966-03	WG401991	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

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Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L29966***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L29966
Date Received: 04/16/2016 10:50
Received By: ddp
Date Printed: 4/18/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23730	4.1	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L29966
Date Received:	04/16/2016 10:50
Received By:	ddp
Date Printed:	4/18/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L29966

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [ ] NO [ ]

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES [ ] NO [x]

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MH-25A	4/11/16 : 1027	GW	1	x							
MO-2007-3B	4/11/16 : 1233	GW	1	x							
MO-2007-3C	4/11/16 : 1341	GW	1	x							
MO-2007-5B	4/12/16 : 1040	GW	1	x							
MO-2009-1	4/12/16 : 1223	GW	1	x							
DUP20160411A	4/11/16 : 0000	GW	1	x							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

Please include copy of report to deborah_chismar@fmi.com

UPS Tracking # 1Z 867 7E4 23 1001 364 5

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/14/16 : 1530		4-16-16 1050

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L29966 Chain of Custody

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

Analytical Report

May 05, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L30045

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 22, 2016. This project has been assigned to ACZ's project number, L30045. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L30045. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 04, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-9

ACZ Sample ID: ***L30045-01***
Date Sampled: *04/19/16 09:00*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	48.6			mg/L	0.5	2.5	05/03/16 19:57	bsu

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-10

ACZ Sample ID: ***L30045-02***
Date Sampled: *04/19/16 11:05*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	50.8			mg/L	0.5	2.5	05/03/16 20:15	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-6

ACZ Sample ID: ***L30045-03***
Date Sampled: *04/19/16 11:17*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	92.6			mg/L	0.5	2.5	05/03/16 20:33	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-1

ACZ Sample ID: ***L30045-04***
Date Sampled: *04/20/16 08:41*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	40.9			mg/L	0.5	2.5	05/03/16 21:27	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-2

ACZ Sample ID: ***L30045-05***
Date Sampled: *04/20/16 09:14*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	52.8			mg/L	0.5	2.5	05/03/16 21:45	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: SIWELL

ACZ Sample ID: ***L30045-06***
Date Sampled: *04/20/16 09:52*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	8.40			mg/L	0.5	2.5	05/03/16 22:03	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160420A

ACZ Sample ID: ***L30045-07***
Date Sampled: *04/20/16 00:00*
Date Received: *04/22/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	8.31			mg/L	0.5	2.5	05/03/16 22:21	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L30045***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG402391													
WG402391LFB1	LFB	05/03/16 18:10	WI151103-3	30		30.7	mg/L	102	90	110			
L29969-01DUP	DUP	05/03/16 18:46			31.8	32.2	mg/L				1	20	
WG402391LFB2	LFB	05/04/16 2:49	WI151103-3	30		30.9	mg/L	103	90	110			
L29982-01AS	AS	05/04/16 17:32	WI151103-3	150	181	328	mg/L	98	90	110			

ACZ Laboratories, Inc.
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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30045***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

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

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30045***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L30045
Date Received: 04/22/2016 09:31
Received By: ddp
Date Printed: 4/22/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23760	2.5	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L30045
Date Received:	04/22/2016 09:31
Received By:	ddp
Date Printed:	4/22/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), $Na_2S_2O_3$ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L30045

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
CW-9	4/19/16 : 0900	GW	1	X							
CW-10	4/19/16 : 1105	GW	1	X							
CW-6	4/19/16 : 1117	GW	1	X							
GV-1	4/20/16 : 0841	GW	1	X							
GV-2	4/20/16 : 0914	GW	1	X							
SIWELL	4/20/16 : 0952	GW	1	X							
DUP20160420A	4/20/16 : 0000	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 365 4

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/14/16 : 1530		4.20.16 9:30

L30045 Chain of Custody

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

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

Analytical Report

May 05, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS0000079
ACZ Project ID: L30158

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 29, 2016. This project has been assigned to ACZ's project number, L30158. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L30158. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 04, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: M-9

ACZ Sample ID: ***L30158-01***
Date Sampled: *04/25/16 11:07*
Date Received: *04/29/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	49.0		*	mg/L	0.5	2.5	05/04/16 2:32	bsu

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: PZ-8

ACZ Sample ID: ***L30158-02***
Date Sampled: *04/26/16 09:15*
Date Received: *04/29/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	422			mg/L	5	25	05/04/16 3:07	bsu

Arizona license number: AZ0102

ACZ Laboratories, Inc.
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Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: PZ-7

ACZ Sample ID: ***L30158-03***
Date Sampled: *04/26/16 10:08*
Date Received: *04/29/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	441			mg/L	5	25	05/04/16 3:25	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: M-20

ACZ Sample ID: ***L30158-04***
Date Sampled: *04/26/16 12:28*
Date Received: *04/29/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1750			mg/L	25	125	05/04/16 4:37	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L30158***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG402391													
WG402391LFB1	LFB	05/03/16 18:10	WI151103-3	30		30.7	mg/L	102	90	110			
L30056-03DUP	DUP	05/03/16 22:56			U	U	mg/L				0	20	RA
WG402391LFB2	LFB	05/04/16 2:49	WI151103-3	30		30.9	mg/L	103	90	110			
L30158-03DUP	DUP	05/04/16 3:43			441	457	mg/L				4	20	
L30158-04AS	AS	05/04/16 4:55	WI151103-3	1500	1750	3270	mg/L	101	90	110			
L30078-01AS	AS	05/04/16 18:08	WI151103-3	30	12	41.6	mg/L	99	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30158***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L30158-01	WG402391	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30158***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L30158
Date Received: 04/29/2016 09:35
Received By: lzg
Date Printed: 4/29/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23792	3.7	<=6.0	14	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID:	L30158
Date Received:	04/29/2016 09:35
Received By:	lzg
Date Printed:	4/29/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L30158

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

CHAIN of CUSTODY

Report to:

Name: Jeff Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
M-9	4/25/16 : 1107	GW	1	X							
PZ-8	4/26/16 : 0915	GW	1	X							
PZ-7	4/26/16 : 1008	GW	1	X							
M-20	4/26/16 : 1228	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 366 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/28/16 : 1530		4/29/16 0935

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L30158 Chain of Custody

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

Analytical Report

August 30, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

CC: Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729 - SULFATE ONLY
ACZ Project ID: L30438

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 13, 2016. This project has been assigned to ACZ's project number, L30438. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L30438. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 29, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-4

ACZ Sample ID: ***L30438-01***
Date Sampled: *05/09/16 10:38*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1280			mg/L	10	50	05/23/16 22:59	bsu

Arizona license number: AZ0102

ACZ Laboratories, Inc.
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Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-1

ACZ Sample ID: ***L30438-02***
Date Sampled: *05/09/16 10:47*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1220			mg/L	10	50	05/23/16 23:17	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-2

ACZ Sample ID: ***L30438-03***
Date Sampled: *05/09/16 10:56*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1070			mg/L	10	50	05/23/16 23:34	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-3

ACZ Sample ID: ***L30438-04***
Date Sampled: *05/09/16 11:06*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1020			mg/L	10	50	05/24/16 0:10	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: RECLAIM POND

ACZ Sample ID: ***L30438-05***
Date Sampled: *05/09/16 12:41*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	2580			mg/L	25	125	05/24/16 0:28	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-1

ACZ Sample ID: ***L30438-06***
Date Sampled: *05/09/16 13:14*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1860			mg/L	25	125	05/24/16 1:40	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160509A

ACZ Sample ID: ***L30438-07***
Date Sampled: *05/09/16 00:00*
Date Received: *05/13/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1880			mg/L	25	125	05/24/16 2:16	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L30438***

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396749													
WG396749ICV	ICV	01/05/16 18:18	WI151221-5	20.02		19.8	mg/L	99	90	110			
WG396749ICB	ICB	01/05/16 18:36				U	mg/L		-0.5	0.5			
WG403421													
WG403421LFB1	LFB	05/23/16 15:13	WI151103-3	30		31.2	mg/L	104	90	110			
WG403421LFB2	LFB	05/23/16 23:52	WI151103-3	30		31.4	mg/L	105	90	110			
L30438-05DUP	DUP	05/24/16 0:46			421	422	mg/L				0	20	
L30438-06AS	AS	05/24/16 1:58	WI151103-3	1500	133	1730	mg/L	106	90	110			
L30408-03DUP	DUP	05/24/16 12:40			31.2	31.3	mg/L				0	20	RA
L30427-01AS	AS	05/24/16 13:16	WI151103-3	30	38.9	69	mg/L	100	90	110			

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396749													
WG396749ICV	ICV	01/05/16 18:18	WI151221-5	50.05		51.3	mg/L	102	90	110			
WG396749ICB	ICB	01/05/16 18:36				U	mg/L		-0.5	0.5			
WG403421													
WG403421LFB1	LFB	05/23/16 15:13	WI151103-3	30		31.2	mg/L	104	90	110			
WG403421LFB2	LFB	05/23/16 23:52	WI151103-3	30		31.3	mg/L	104	90	110			
L30438-05DUP	DUP	05/24/16 0:46			2580	2590	mg/L				0	20	
L30438-06AS	AS	05/24/16 1:58	WI151103-3	1500	1860	3500	mg/L	109	90	110			
L30408-03DUP	DUP	05/24/16 12:40			696	658	mg/L				6	20	
L30427-01AS	AS	05/24/16 13:16	WI151103-3	30	4.43	36.5	mg/L	107	90	110			

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30438***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L30438-01	WG403421	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L30438-02	WG403421	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L30438-03	WG403421	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30438***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L30438
Date Received: 05/13/2016 09:40
Received By: ddp
Date Printed: 5/13/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23895	2.9	<=6.0	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L30438
Date Received:	05/13/2016 09:40
Received By:	ddp
Date Printed:	5/13/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L30438

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375	Chlorides						
PS-4	5/9/16 : 1038	GW	2	x	x						
PS-1	5/9/16 : 1047	GW	2	x	x						
PS-2	5/9/16 : 1056	GW	2	x	x						
PS-3	5/9/16 : 1106	GW	2	x	x						
Reclaim Pond	5/9/16 : 1241	GW	2	x	x						
FFS-1	5/9/16 : 1314	GW	2	x	x						
DUP20160509A	5/9/16 : 0000	GW	2	x	x						

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 434 0

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	5/12/16 : 1530		5/13/16 0940

L30438 Chain of Custody

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

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

Analytical Report

May 31, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L30539

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 19, 2016. This project has been assigned to ACZ's project number, L30539. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L30539. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-21

ACZ Sample ID: ***L30539-01***
Date Sampled: *05/17/16 10:46*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1990			mg/L	10	50	05/30/16 14:28	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-19

ACZ Sample ID: ***L30539-02***
Date Sampled: *05/17/16 10:58*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1980			mg/L	25	125	05/31/16 12:02	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-15

ACZ Sample ID: ***L30539-03***
Date Sampled: *05/17/16 11:06*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	2010			mg/L	25	125	05/31/16 12:20	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-14

ACZ Sample ID: ***L30539-02***
Date Sampled: *05/17/16 11:14*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	2040			mg/L	25	125	05/30/16 15:40	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-12

ACZ Sample ID: ***L30539-05***
Date Sampled: *05/17/16 11:21*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1930			mg/L	10	50	05/30/16 15:57	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-22

ACZ Sample ID: ***L30539-06***
Date Sampled: *05/17/16 11:37*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1930			mg/L	25	125	05/31/16 12:38	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-28

ACZ Sample ID: ***L30539-07***
Date Sampled: *05/17/16 12:06*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1840			mg/L	25	125	05/31/16 12:56	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-27

ACZ Sample ID: ***L30539-08***
Date Sampled: *05/17/16 12:25*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1930			mg/L	10	50	05/30/16 17:27	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-24

ACZ Sample ID: ***L30539-09***
Date Sampled: *05/17/16 12:34*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1920			mg/L	25	125	05/31/16 13:14	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-4

ACZ Sample ID: ***L30539-10***
Date Sampled: *05/17/16 12:43*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1750			mg/L	25	125	05/31/16 13:32	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-26

ACZ Sample ID: ***L30539-11***
Date Sampled: *05/17/16 12:51*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1750			mg/L	25	125	05/30/16 18:39	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-8

ACZ Sample ID: ***L30539-12***
Date Sampled: *05/17/16 13:02*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1940			mg/L	25	125	05/31/16 14:07	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-25

ACZ Sample ID: ***L30539-13***
Date Sampled: *05/17/16 13:11*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1220			mg/L	10	50	05/30/16 19:33	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-2A

ACZ Sample ID: ***L30539-12***
Date Sampled: *05/17/16 13:28*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	257			mg/L	2.5	12.5	05/30/16 20:26	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-1

ACZ Sample ID: ***L30539-15***
Date Sampled: *05/17/16 13:36*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1430			mg/L	10	50	05/30/16 20:44	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-11

ACZ Sample ID: ***L30539-16***
Date Sampled: *05/18/16 12:16*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1810			mg/L	10	50	05/30/16 21:02	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160517A

ACZ Sample ID: ***L30539-17***
Date Sampled: *05/17/16 00:00*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1990			mg/L	10	50	05/30/16 21:20	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160517B

ACZ Sample ID: ***L30539-18***
Date Sampled: *05/17/16 00:00*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1180			mg/L	10	50	05/30/16 21:38	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L30539***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396749													
WG396749ICV	ICV	01/05/16 18:18	WI151221-5	50.05		51.3	mg/L	102	90	110			
WG396749ICB	ICB	01/05/16 18:36				U	mg/L		-0.5	0.5			
WG403768													
WG403768LFB1	LFB	05/30/16 13:34	WI151103-3	30		32	mg/L	107	90	110			
L30403-03AS	AS	05/30/16 14:10	WI151103-3	30	17.3	48.8	mg/L	105	90	110			
L30539-01DUP	DUP	05/30/16 14:46			1990	1990	mg/L				0	20	
L30539-11AS	AS	05/30/16 18:57	WI151103-3	1500	1750	3360	mg/L	107	90	110			
WG403768LFB2	LFB	05/30/16 22:14	WI151103-3	30		32.1	mg/L	107	90	110			
L30539-10DUP	DUP	05/31/16 13:49			1750	1860	mg/L				6	20	

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30539***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30539***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L30539
Date Received: 05/19/2016 09:51
Received By: ddp
Date Printed: 5/19/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23934	3.9	<=6.0	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L30539
Date Received:	05/19/2016 09:51
Received By:	ddp
Date Printed:	5/19/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

L30539

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
IW-21	5/17/16 : 1046	GW	1	x							
IW-19	5/17/16 : 1058	GW	1	x							
IW-15	5/17/16 : 1106	GW	1	x							
IW-14	5/17/16 : 1114	GW	1	x							
IW-12	5/17/16 : 1121	GW	1	x							
IW-22	5/17/16 : 1137	GW	1	x							
IW-28	5/17/16 : 1206	GW	1	x							
IW-27	5/17/16 : 1225	GW	1	x							
IW-24	5/17/16 : 1234	GW	1	x							
IW-4	5/17/16 : 1243	GW	1	x							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler 2
Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 432 2

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	5/18/16 : 1530		5/19/16 0950

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L30539 Chain of Custody

ACZ Laboratories, Inc. L30539

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
IW-26	5/17/16 : 1251	GW	1	x							
IW-8	5/17/16 : 1302	GW	1	x							
IW-25	5/17/16 : 1311	GW	1	x							
IW-2A	5/17/16 : 1328	GW	1	x							
IW-1	5/17/16 : 1336	GW	1	x							
MH-11	5/18/16 : 1216	GW	1	x							
DUP20160517A	5/17/16 : 0000	GW	1	x							
DUP20160517B	5/17/16 : 0000	GW	1	x							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler 2
Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 432 2

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	5/18/16 : 1530		5-19-16 0930

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

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

Analytical Report

May 31, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

CC: Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729 - SULFATE ONLY
ACZ Project ID: L30540

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 19, 2016. This project has been assigned to ACZ's project number, L30540. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L30540. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after June 30, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-2

ACZ Sample ID: ***L30540-01***
Date Sampled: *05/16/16 10:55*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1920			mg/L	25	125	05/27/16 1:47	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-1

ACZ Sample ID: ***L30540-02***
Date Sampled: *05/16/16 11:13*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1680			mg/L	10	50	05/27/16 2:05	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-3

ACZ Sample ID: ***L30540-03***
Date Sampled: *05/16/16 11:48*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1580			mg/L	25	125	05/27/16 2:41	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-4

ACZ Sample ID: ***L30540-04***
Date Sampled: *05/16/16 12:03*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1380			mg/L	10	50	05/27/16 3:16	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-5

ACZ Sample ID: ***L30540-05***
Date Sampled: *05/16/16 12:16*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1470			mg/L	10	50	05/27/16 3:34	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-6

ACZ Sample ID: ***L30540-06***
Date Sampled: *05/16/16 12:27*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1270			mg/L	10	50	05/27/16 4:28	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-3

ACZ Sample ID: ***L30540-07***
Date Sampled: *05/16/16 12:37*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1410			mg/L	10	50	05/27/16 4:46	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-4

ACZ Sample ID: ***L30540-08***
Date Sampled: *05/16/16 12:49*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1340			mg/L	10	50	05/27/16 11:18	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-2

ACZ Sample ID: ***L30540-09***
Date Sampled: *05/16/16 13:07*
Date Received: *05/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1150			mg/L	10	50	05/27/16 5:22	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L30540***

Chloride M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396749													
WG396749ICV	ICV	01/05/16 18:18	WI151221-5	20.02		19.8	mg/L	99	90	110			
WG396749ICB	ICB	01/05/16 18:36				U	mg/L		-0.5	0.5			
WG403718													
WG403718LFB	LFB	05/26/16 21:36	WI151103-3	30		31.9	mg/L	106	90	110			
L30466-01DUP	DUP	05/26/16 22:12			U	U	mg/L				0	20	RA
L30522-01AS	AS	05/26/16 22:48	WI151103-3	30	U	32.5	mg/L	108	90	110			
L30540-02DUP	DUP	05/27/16 2:23			127	127	mg/L				0	20	
L30540-03AS	AS	05/27/16 2:59	WI151103-3	1500	98.2	1680	mg/L	105	90	110			

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396749													
WG396749ICV	ICV	01/05/16 18:18	WI151221-5	50.05		51.3	mg/L	102	90	110			
WG396749ICB	ICB	01/05/16 18:36				U	mg/L		-0.5	0.5			
WG403718													
WG403718LFB	LFB	05/26/16 21:36	WI151103-3	30		31.9	mg/L	106	90	110			
L30466-01DUP	DUP	05/26/16 22:12			46.5	46.5	mg/L				0	20	
L30522-01AS	AS	05/26/16 22:48	WI151103-3	30	8.1	40.1	mg/L	107	90	110			
L30540-02DUP	DUP	05/27/16 2:23			1680	1680	mg/L				0	20	
L30540-03AS	AS	05/27/16 2:59	WI151103-3	1500	1580	3200	mg/L	108	90	110			

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30540***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L30540-01	WG403718	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L30540-03	WG403718	Chloride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30540***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L30540
Date Received: 05/19/2016 09:52
Received By: ddp
Date Printed: 5/19/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA23935	1.7	<=6.0	12	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L30540
Date Received:	05/19/2016 09:52
Received By:	ddp
Date Printed:	5/19/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L30540

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375	Chlorides						
FFS-2	5/16/16 : 1055	GW	2	X	X						
MC-1	5/16/16 : 1113	GW	2	X	X						
FFS-3	5/16/16 : 1148	GW	2	X	X						
FFS-4	5/16/16 : 1203	GW	2	X	X						
FFS-5	5/16/16 : 1216	GW	2	X	X						
FFS-6	5/16/16 : 1227	GW	2	X	X						
MC-3	5/16/16 : 1237	GW	2	X	X						
MC-4	5/16/16 : 1249	GW	2	X	X						
MC-2	5/16/16 : 1307	GW	2	X	X						

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler 1
Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 431 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	5/18/16 : 1530	NPL	5/19/16 0950

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L30540 Chain of Custody

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

Analytical Report

June 27, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Deborah Chismar, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS0000079
ACZ Project ID: L30935

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 10, 2016. This project has been assigned to ACZ's project number, L30935. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L30935. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after July 27, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: ESP-2

ACZ Sample ID: ***L30935-01***
Date Sampled: *06/07/16 11:52*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	32.7			mg/L	0.5	2.5	06/18/16 18:01	bsu

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: ESP-3

ACZ Sample ID: ***L30935-02***
Date Sampled: *06/07/16 12:30*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	38.3			mg/L	0.5	2.5	06/18/16 18:18	bsu

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: ESP-4

ACZ Sample ID: ***L30935-03***
Date Sampled: *06/07/16 13:25*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	385			mg/L	5	25	06/18/16 18:54	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: HAVENGOLF

ACZ Sample ID: ***L30935-04***
Date Sampled: *06/08/16 09:40*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	99.5			mg/L	2.5	12.5	06/18/16 19:30	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MH-10

ACZ Sample ID: ***L30935-05***
Date Sampled: *06/08/16 14:27*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1560			mg/L	10	50	06/18/16 19:48	bsu

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: CW-3

ACZ Sample ID: ***L30935-06***
Date Sampled: *06/09/16 07:10*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	81.1			mg/L	0.5	2.5	06/18/16 20:42	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: DUP20160608A

ACZ Sample ID: ***L30935-07***
Date Sampled: *06/08/16 00:00*
Date Received: *06/10/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	101			mg/L	2.5	12.5	06/21/16 12:28	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L30935***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG404870													
WG404870LFB1	LFB	06/18/16 13:50	WI151103-3	30		29.8	mg/L	99	90	110			
L30847-05DUP	DUP	06/18/16 14:26			132	132	mg/L				0	20	
L30873-01AS	AS	06/18/16 15:01	WI151103-3	30	9.2	39.3	mg/L	100	90	110			
L30935-02DUP	DUP	06/18/16 18:36			38.3	38.7	mg/L				1	20	
L30935-03AS	AS	06/18/16 19:12	WI151103-3	300	385	705	mg/L	107	90	110			
WG404870LFB2	LFB	06/18/16 22:29	WI151103-3	30		27.6	mg/L	92	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30935***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L30935***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
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Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L30935
Date Received: 06/10/2016 09:36
Received By: kmo
Date Printed: 6/10/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
3527	4.9	<=6.0	16	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID:	L30935
Date Received:	06/10/2016 09:36
Received By:	kmo
Date Printed:	6/10/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

L30935

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy
Company: Freeport-McMoRan Sierrita Inc.
E-mail: jeff_joy@fmi.com
Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau
Company: Clear Creek Associates
E-mail: bdaigneau@clearcreekassociates.com
Telephone: 520-622-3222

Invoice to:

Name:
Company:
E-mail:
Address:
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [ ] NO [ ]

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES [ ] NO [X]

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375
ESP-2	6/7/16 : 1152	GW	1	X
ESP-3	6/7/16 : 1230	GW	1	X
ESP-4	6/7/16 : 1325	GW	1	X
HAVENGOLF	6/8/16 : 0940	GW	1	X
MH-10	6/8/16 : 1427	GW	1	X
CW-3	6/9/16 : 0710	GW	1	X
DUP20160608A	6/8/16 : 0000	GW	1	X

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 426 0

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	6/9/16 : 1530		6/10/16 09:36

L30935 Chain of Custody

August 15, 2016

Ben Daigneau
Clear Creek Associates
221 N. Court Ave., Suite 101
Tucson, AZ 85701

TEL (520) 622-3222
FAX (520) 622-4040

Work Order No.: 16H0340
Order Name: MO-2016-Wells 287091

RE: FMI-Sierrita

Dear Ben Daigneau,

Turner Laboratories, Inc. received 1 sample(s) on 08/04/2016 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Dawn Weyer
Project Manager

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0340
Date Received: 08/04/2016

Order: MO-2016-Wells 287091

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
16H0340-01	MO-2016 S.B.	Ground Water	08/04/2016 1215

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0340
Date Received: 08/04/2016

Case Narrative

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0340
Lab Sample ID: 16H0340-01

Client Sample ID: MO-2016 S.B.
Collection Date/Time: 08/04/2016 1215
Matrix: Ground Water
Order Name: MO-2016-Wells 287091

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	87			mg/L	1	08/05/2016 0945	08/09/2016 1215	MR
ICP Dissolved Metals-E 200.7								
Calcium	25	4.0		mg/L	1	08/05/2016 0800	08/05/2016 1048	MR
Magnesium	3.7	3.0		mg/L	1	08/05/2016 0800	08/05/2016 1048	MR
Potassium	ND	5.0		mg/L	1	08/05/2016 0800	08/05/2016 1048	MR
Sodium	45	5.0		mg/L	1	08/05/2016 0800	08/05/2016 1048	MR
ICP Total Metals-E200.7								
Calcium	28	4.0		mg/L	1	08/05/2016 0945	08/09/2016 1215	MR
Magnesium	4.2	3.0		mg/L	1	08/05/2016 0945	08/09/2016 1215	MR
Anions by Ion Chromatography-E300								
Chloride	10	1.0		mg/L	1	08/04/2016 1450	08/04/2016 1456	KM
Fluoride	0.72	0.50		mg/L	1	08/04/2016 1450	08/04/2016 1456	KM
Sulfate	46	5.0		mg/L	1	08/04/2016 1450	08/04/2016 1456	KM
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	130	2.0		mg/L	1	08/05/2016 0815	08/05/2016 1600	LH
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/05/2016 0815	08/05/2016 1600	LH
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/05/2016 0815	08/05/2016 1600	LH
Alkalinity, Total (As CaCO3)	130	2.0		mg/L	1	08/05/2016 0815	08/05/2016 1600	LH
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	250	20		mg/L	1	08/05/2016 0815	08/08/2016 1415	LH

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0340
Date Received: 08/04/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608054 - E 200.7										
Blank (1608054-BLK1)				Prepared & Analyzed: 08/05/2016						
Calcium	ND	4.0	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1608054-BS1)				Prepared & Analyzed: 08/05/2016						
Calcium	9.9	4.0	mg/L	10.00		99	85-115			
Magnesium	9.9	3.0	mg/L	10.00		99	85-115			
Potassium	9.7	5.0	mg/L	10.00		97	85-115			
Sodium	10	5.0	mg/L	10.00		101	85-115			
LCS Dup (1608054-BSD1)				Prepared & Analyzed: 08/05/2016						
Calcium	11	4.0	mg/L	10.00		113	85-115	13	20	
Magnesium	11	3.0	mg/L	10.00		111	85-115	12	20	
Potassium	11	5.0	mg/L	10.00		111	85-115	14	20	
Sodium	11	5.0	mg/L	10.00		114	85-115	12	20	
Matrix Spike (1608054-MS1)		**Source: 16H0266-01**		Prepared & Analyzed: 08/05/2016						
Calcium	17	4.0	mg/L	10.00	7.7	92	70-130			
Magnesium	10	3.0	mg/L	10.00	0.92	93	70-130			
Potassium	13	5.0	mg/L	10.00	3.0	96	70-130			
Sodium	230	5.0	mg/L	10.00	230	33	70-130			M3
Batch 1608071 - E200.7										
Blank (1608071-BLK1)				Prepared: 08/05/2016 Analyzed: 08/09/2016						
Calcium	ND	4.0	mg/L							
Magnesium	ND	3.0	mg/L							
LCS (1608071-BS1)				Prepared: 08/05/2016 Analyzed: 08/09/2016						
Calcium	10	4.0	mg/L	10.00		102	85-115			
Magnesium	10	3.0	mg/L	10.00		103	85-115			
LCS Dup (1608071-BSD1)				Prepared: 08/05/2016 Analyzed: 08/09/2016						
Calcium	10	4.0	mg/L	10.00		102	85-115	0.1	20	
Magnesium	10	3.0	mg/L	10.00		104	85-115	1	20	
Matrix Spike (1608071-MS1)		**Source: 16H0011-02**		Prepared: 08/05/2016 Analyzed: 08/09/2016						
Calcium	120	4.0	mg/L	10.00	110	79	70-130			
Magnesium	33	3.0	mg/L	10.00	23	103	70-130			
Matrix Spike (1608071-MS2)		**Source: 16H0340-01**		Prepared: 08/05/2016 Analyzed: 08/09/2016						
Calcium	37	4.0	mg/L	10.00	28	92	70-130			
Magnesium	14	3.0	mg/L	10.00	4.2	100	70-130			

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0340
Date Received: 08/04/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608065 - SM2540 C										
Duplicate (1608065-DUP1)		**Source: 16H0011-01**		Prepared: 08/05/2016 Analyzed: 08/08/2016						
Total Dissolved Solids (Residue, Filterable)	930	20	mg/L		940			0.5	5	
Duplicate (1608065-DUP2)		**Source: 16H0253-01**		Prepared: 08/05/2016 Analyzed: 08/10/2016						
Total Dissolved Solids (Residue, Filterable)	23000	20	mg/L		23000			0.4	5	
Batch 1608070 - SM2320B										
LCS (1608070-BS1)				Prepared & Analyzed: 08/05/2016						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110			
LCS Dup (1608070-BSD1)				Prepared & Analyzed: 08/05/2016						
Alkalinity, Total (As CaCO3)	230	2.0	mg/L	250.0		94	90-110	0.9	10	
Matrix Spike (1608070-MS1)		**Source: 16H0202-01**		Prepared & Analyzed: 08/05/2016						
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	96	92	85-115			
Matrix Spike Dup (1608070-MSD1)		**Source: 16H0202-01**		Prepared & Analyzed: 08/05/2016						
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	96	92	85-115	0	10	

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0340
Date Received: 08/04/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608050 - E300										
Blank (1608050-BLK1)				Prepared & Analyzed: 08/04/2016						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1608050-BS1)				Prepared & Analyzed: 08/04/2016						
Chloride	12	1.0	mg/L	12.50		94	90-110			
Fluoride	2.0	0.50	mg/L	2.000		100	90-110			
Sulfate	12	5.0	mg/L	12.50		99	90-110			
LCS Dup (1608050-BSD1)				Prepared & Analyzed: 08/04/2016						
Chloride	12	1.0	mg/L	12.50		94	90-110	0.4	10	
Fluoride	2.0	0.50	mg/L	2.000		100	90-110	0.2	10	
Sulfate	12	5.0	mg/L	12.50		99	90-110	0.3	10	
Matrix Spike (1608050-MS1)	**Source: 16H0340-01**			Prepared & Analyzed: 08/04/2016						
Chloride	22	1.0	mg/L	12.50	10	92	80-120			
Fluoride	2.6	0.50	mg/L	2.000	0.72	93	80-120			
Matrix Spike (1608050-MS2)	**Source: 16H0340-01RE1**			Prepared & Analyzed: 08/04/2016						
Sulfate	21		mg/L	12.50	9.2	92	80-120			
Matrix Spike Dup (1608050-MSD1)	**Source: 16H0340-01**			Prepared & Analyzed: 08/04/2016						
Chloride	22	1.0	mg/L	12.50	10	92	80-120	0.2	10	
Fluoride	2.6	0.50	mg/L	2.000	0.72	94	80-120	0.4	10	
Matrix Spike Dup (1608050-MSD2)	**Source: 16H0340-01RE1**			Prepared & Analyzed: 08/04/2016						
Sulfate	21		mg/L	12.50	9.2	91	80-120	0.2	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1610340 DATE 08/04/16 PAGE 1 OF 1

PROJECT NAME MO-2016-Wells # 287091
CONTACT NAME Ben Daigneau
COMPANY NAME Clear Creek Associates
ADDRESS 221 N. Court Ave
ZIP 85701 PHONE 520 622 3222 EMAIL Bdaigneau@clearcreekassociates.com
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Base Neutrals 625/8270	Acids	Volatile Organics 624	524.2	8260	THMs	HAA5	Chloride	Sulfate	Resistivity	NO3	NO2	TKN	TPH	1664	Oil & Grease	TCLP Analysis VOA	Semi-VOA	Pest.	TCLP	Metals Dissolved	Total	RCRA8	Total	Cyanide Amen.	WAD	SDWA-INORGANICS PRIMARY	SECONDARY	MPN	Coliform PIA	pH	Fecal	Cl2	COD	Turb	TSS	BOD	TDS	Alkalinity Chloride Sulfate	Hardness as CaCO3 Calcium Magnesium Potassium
MO-2016 SB	8/4/16	12:15		GW	3																																				X	X	X

1. RELINQUISHED BY:
Signature
Printed Name Ben Daigneau
Firm Clear Creek
Date/Time 8/4/16 14:05

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx. 10 days)*
____ Next Day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 3
Temperature 25.8
☑ Wet Ice
☐ Ambient
☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
8/4/16 1405
Date/Time

* LEGEND SAMPLE MATRIX
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

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

SPECIAL INSTRUCTIONS/COMMENTS:

August 24, 2016

Leandra Marshall
Clear Creek Associates
221 N. Court Ave., Suite 101
Tucson, AZ 85701

TEL (520) 622-3222
FAX (520) 622-4040

Work Order No.: 16H0486
Order Name: MO-2016-Wells 287091

RE: FMI-Sierrita

Dear Leandra Marshall,

Turner Laboratories, Inc. received 1 sample(s) on 08/10/2016 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066



Max DiSante
Technical Director

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0486
Date Received: 08/10/2016

Order: MO-2016-Wells 287091

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
16H0486-01	MO-2016-5A	Ground Water	08/10/2016 1431

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0486
Date Received: 08/10/2016

Case Narrative

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0486
Lab Sample ID: 16H0486-01

Client Sample ID: MO-2016-5A
Collection Date/Time: 08/10/2016 1431
Matrix: Ground Water
Order Name: MO-2016-Wells 287091

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	130			mg/L	1	08/23/2016 1120	08/24/2016 1234	MH
ICP Dissolved Metals-E 200.7								
Calcium	42	4.0		mg/L	1	08/11/2016 1700	08/15/2016 1151	MR
Magnesium	7.7	3.0		mg/L	1	08/11/2016 1700	08/15/2016 1152	MR
Potassium	ND	5.0		mg/L	1	08/11/2016 1700	08/15/2016 1151	MR
Sodium	30	5.0		mg/L	1	08/11/2016 1700	08/15/2016 1152	MR
ICP Total Metals-E200.7								
Calcium	42	4.0		mg/L	1	08/23/2016 1120	08/24/2016 1234	MH
Magnesium	7.5	3.0		mg/L	1	08/23/2016 1120	08/24/2016 1234	MH
Anions by Ion Chromatography-E300								
Chloride	9.1	1.0		mg/L	1	08/11/2016 1103	08/11/2016 1203	KM
Fluoride	ND	0.50		mg/L	1	08/11/2016 1103	08/11/2016 1203	KM
Sulfate	27	5.0		mg/L	1	08/11/2016 1103	08/11/2016 1203	KM
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	170	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Alkalinity, Total (As CaCO3)	170	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	250	20		mg/L	1	08/17/2016 0815	08/18/2016 1345	LH

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0486
Date Received: 08/10/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608153 - E 200.7										
Blank (1608153-BLK1)				Prepared & Analyzed: 08/15/2016						
Calcium	ND	4.0	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1608153-BS1)				Prepared & Analyzed: 08/15/2016						
Calcium	10	4.0	mg/L	10.00		103	85-115			
Magnesium	11	3.0	mg/L	10.00		105	85-115			
Potassium	10	5.0	mg/L	10.00		101	85-115			
Sodium	11	5.0	mg/L	10.00		107	85-115			
LCS Dup (1608153-BSD1)				Prepared & Analyzed: 08/15/2016						
Calcium	10	4.0	mg/L	10.00		101	85-115	2	20	
Magnesium	10	3.0	mg/L	10.00		103	85-115	2	20	
Potassium	10	5.0	mg/L	10.00		100	85-115	1	20	
Sodium	11	5.0	mg/L	10.00		107	85-115	0.2	20	
Matrix Spike (1608153-MS1)	**Source: 16H0432-01**			Prepared & Analyzed: 08/15/2016						
Calcium	19	4.0	mg/L	10.00	9.7	95	70-130			
Magnesium	11	3.0	mg/L	10.00	1.1	99	70-130			
Potassium	12	5.0	mg/L	10.00	2.5	98	70-130			
Sodium	11	5.0	mg/L	10.00	1.2	100	70-130			
Matrix Spike (1608153-MS2)	**Source: 16H0561-03**			Prepared & Analyzed: 08/15/2016						
Calcium	81	4.0	mg/L	10.00	74	75	70-130			
Magnesium	14	3.0	mg/L	10.00	4.0	96	70-130			
Potassium	19	5.0	mg/L	10.00	8.5	104	70-130			
Sodium	250	5.0	mg/L	10.00	250	NR	70-130			M3
Batch 1608286 - E200.7										
Blank (1608286-BLK1)				Prepared: 08/23/2016 Analyzed: 08/24/2016						
Calcium	ND	4.0	mg/L							
Magnesium	ND	3.0	mg/L							
LCS (1608286-BS1)				Prepared: 08/23/2016 Analyzed: 08/24/2016						
Calcium	11	4.0	mg/L	10.00		105	85-115			
Magnesium	11	3.0	mg/L	10.00		105	85-115			
LCS Dup (1608286-BSD1)				Prepared: 08/23/2016 Analyzed: 08/24/2016						
Calcium	11	4.0	mg/L	10.00		108	85-115	2	20	
Magnesium	11	3.0	mg/L	10.00		107	85-115	2	20	
Matrix Spike (1608286-MS1)	**Source: 16H0766-01**			Prepared: 08/23/2016 Analyzed: 08/24/2016						
Calcium	77	4.0	mg/L	10.00	68	88	70-130			
Magnesium	19	3.0	mg/L	10.00	9.8	94	70-130			

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0486
Date Received: 08/10/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608208 - SM2540 C										
Duplicate (1608208-DUP1)		**Source: 16H0520-01**		Prepared: 08/17/2016 Analyzed: 08/18/2016						
Total Dissolved Solids (Residue, Filterable)	1100	20	mg/L		1100			0.7	5	
Duplicate (1608208-DUP2)		**Source: 16H0643-07**		Prepared: 08/17/2016 Analyzed: 08/18/2016						
Total Dissolved Solids (Residue, Filterable)	450	20	mg/L		450			0.7	5	
Batch 1608267 - SM2320B										
LCS (1608267-BS1)				Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		95	90-110			
LCS Dup (1608267-BSD1)				Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110	0.8	10	
Matrix Spike (1608267-MS1)		**Source: 16H0430-01**		Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	100	94	85-115			
Matrix Spike Dup (1608267-MSD1)		**Source: 16H0430-01**		Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	340	2.0	mg/L	250.0	100	95	85-115	1	10	

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0486
Date Received: 08/10/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608127 - E300										
Blank (1608127-BLK1)				Prepared & Analyzed: 08/11/2016						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1608127-BS1)				Prepared & Analyzed: 08/11/2016						
Chloride	12	1.0	mg/L	12.50		95	90-110			
Fluoride	1.9	0.50	mg/L	2.000		97	90-110			
Sulfate	12	5.0	mg/L	12.50		95	90-110			
LCS Dup (1608127-BSD1)				Prepared & Analyzed: 08/11/2016						
Chloride	12	1.0	mg/L	12.50		95	90-110	0.1	10	
Fluoride	1.9	0.50	mg/L	2.000		96	90-110	1	10	
Sulfate	12	5.0	mg/L	12.50		94	90-110	0.9	10	
Matrix Spike (1608127-MS1)	**Source: 16H0486-01**			Prepared & Analyzed: 08/11/2016						
Chloride	21	1.0	mg/L	12.50	9.1	97	80-120			
Fluoride	2.1	0.50	mg/L	2.000	0.14	96	80-120			
Sulfate	39	5.0	mg/L	12.50	27	91	80-120			
Matrix Spike Dup (1608127-MSD1)	**Source: 16H0486-01**			Prepared & Analyzed: 08/11/2016						
Chloride	21	1.0	mg/L	12.50	9.1	96	80-120	0.4	10	
Fluoride	2.1	0.50	mg/L	2.000	0.14	96	80-120	0.1	10	
Sulfate	38	5.0	mg/L	12.50	27	87	80-120	1	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 16H0486 DATE 8/10/16 PAGE 1 OF 1

PROJECT NAME Mo-2016 Wells # 287091
CONTACT NAME Leandra X. Marshall
COMPANY NAME Clear Creek Associates
ADDRESS 221 N. Court Ave. Suite 101
ZIP 85701 PHONE 520 310 8570 EMAIL lmarshall@clearcreekassociates.
SAMPLER'S SIGNATURE Leandra X. Marshall

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX
Mo-2016-5A	8/10/16	14:31 & 14:55		GW	3	Chloride; Sulfate; TDS, Alk, F; Hardness

1. RELINQUISHED BY: Leandra X. Marshall — Signature; Leandra X. Marshall — Printed Name; Clear Creek Associates — Firm; 8/10/16 16:40 — Date/Time

2. RECEIVED BY: Signature; Printed Name; Firm; Date/Time

3. RELINQUISHED BY: Signature; Printed Name; Firm; Date/Time

4. RECEIVED BY: Signature; Printed Name; TURNER LABORATORIES, INC. — Firm; 8/10/16 1640 — Date/Time

TURNAROUND REQUIREMENTS:
X Standard (approx. 10 days)*
___ Next Day ___ 2 Day ___ 5 Day*
___ Email Preliminary Results
* Working Days

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

INVOICE INFORMATION:
Account ___ Y ___ N
P.O. # ___
Bill to: Freeport-McMoran

SAMPLE RECEIPT:
Total Containers 3
Temperature 12.2
☒ Wet Ice
☐ Ambient
☐ Blue Ice

* LEGEND SAMPLE MATRIX
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

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

SPECIAL INSTRUCTIONS/COMMENTS:
filtered samples done w/ 0.45 µm filter, contact Leandra Marshall & Ben Daigneau: bdaigneau@clearcreekassociates.com
Ca, Mg, K, Na

August 30, 2016

Ben Daigneau
Clear Creek Associates
221 N. Court Ave., Suite 101
Tucson, AZ 85701

TEL (520) 622-3222
FAX (520) 622-4040

Work Order No.: 16H0644

RE: FMI-Sierrita

Dear Ben Daigneau,

Turner Laboratories, Inc. received 1 sample(s) on 08/16/2016 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066



Max DiSante
Technical Director

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0644
Date Received: 08/16/2016

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
16H0644-01	MO-2016-6	Ground Water	08/16/2016 1415

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0644
Date Received: 08/16/2016

Case Narrative

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0644
Lab Sample ID: 16H0644-01

Client Sample ID: MO-2016-6
Collection Date/Time: 08/16/2016 1415
Matrix: Ground Water

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	490			mg/L	1	08/18/2016 1400	08/22/2016 1705	MH
ICP Dissolved Metals-E 200.7								
Calcium	160	4.0		mg/L	1	08/17/2016 0905	08/17/2016 1508	MR
Magnesium	28	3.0		mg/L	1	08/17/2016 0905	08/17/2016 1508	MR
Potassium	7.1	5.0		mg/L	1	08/17/2016 0905	08/17/2016 1508	MR
Sodium	65	5.0		mg/L	1	08/17/2016 0905	08/17/2016 1508	MR
ICP Total Metals-E200.7								
Calcium	150	8.0		mg/L	1	08/18/2016 1400	08/22/2016 1705	MH
Magnesium	27	6.0		mg/L	1	08/18/2016 1400	08/22/2016 1705	MH
Anions by Ion Chromatography-E300								
Chloride	56	5.0		mg/L	5	08/18/2016 1630	08/19/2016 0248	KM
Fluoride	ND	0.50		mg/L	1	08/17/2016 1430	08/18/2016 0252	KM
Sulfate	490	100		mg/L	20	08/18/2016 1630	08/19/2016 0230	KM
Alkalinity-SM2320B								
Alkalinity, Bicarbonate (As CaCO3)	100	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Alkalinity, Total (As CaCO3)	100	2.0		mg/L	1	08/22/2016 1100	08/22/2016 1730	LH
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	960	20		mg/L	1	08/23/2016 0900	08/24/2016 1710	LH

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0644
Date Received: 08/16/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608191 - E 200.7										
Blank (1608191-BLK1)				Prepared & Analyzed: 08/17/2016						
Calcium	ND	4.0	mg/L							
Magnesium	ND	3.0	mg/L							
Potassium	ND	5.0	mg/L							
Sodium	ND	5.0	mg/L							
LCS (1608191-BS1)				Prepared & Analyzed: 08/17/2016						
Calcium	9.8	4.0	mg/L	10.00		98	85-115			
Magnesium	11	3.0	mg/L	10.00		106	85-115			
Potassium	11	5.0	mg/L	10.00		107	85-115			
Sodium	11	5.0	mg/L	10.00		113	85-115			
LCS Dup (1608191-BSD1)				Prepared & Analyzed: 08/17/2016						
Calcium	9.8	4.0	mg/L	10.00		98	85-115	0.3	20	
Magnesium	11	3.0	mg/L	10.00		106	85-115	0.4	20	
Potassium	11	5.0	mg/L	10.00		107	85-115	0.4	20	
Sodium	11	5.0	mg/L	10.00		112	85-115	0.4	20	
Matrix Spike (1608191-MS1)	**Source: 16H0611-01**			Prepared & Analyzed: 08/17/2016						
Calcium	83	4.0	mg/L	10.00	75	77	70-130			
Magnesium	14	3.0	mg/L	10.00	3.9	99	70-130			
Potassium	22	5.0	mg/L	10.00	10	116	70-130			
Sodium	260	5.0	mg/L	10.00	260	18	70-130			M3
Matrix Spike (1608191-MS2)	**Source: 16H0644-01**			Prepared & Analyzed: 08/17/2016						
Calcium	160	4.0	mg/L	10.00	160	36	70-130			M3
Magnesium	38	3.0	mg/L	10.00	28	103	70-130			
Potassium	18	5.0	mg/L	10.00	7.1	109	70-130			
Sodium	75	5.0	mg/L	10.00	65	101	70-130			
Batch 1608248 - E200.7										
Blank (1608248-BLK1)				Prepared: 08/18/2016 Analyzed: 08/22/2016						
Calcium	ND	4.0	mg/L							
Magnesium	ND	3.0	mg/L							
LCS (1608248-BS1)				Prepared: 08/18/2016 Analyzed: 08/22/2016						
Calcium	9.9	4.0	mg/L	10.00		99	85-115			
Magnesium	10	3.0	mg/L	10.00		101	85-115			
LCS Dup (1608248-BSD1)				Prepared: 08/18/2016 Analyzed: 08/22/2016						
Calcium	9.8	4.0	mg/L	10.00		98	85-115	0.3	20	
Magnesium	10	3.0	mg/L	10.00		101	85-115	0.1	20	
Matrix Spike (1608248-MS1)	**Source: 16H0541-02**			Prepared: 08/18/2016 Analyzed: 08/22/2016						
Calcium	190	4.0	mg/L	10.00	190	54	70-130			M3
Magnesium	50	3.0	mg/L	10.00	40	100	70-130			
Matrix Spike (1608248-MS2)	**Source: 16H0667-01**			Prepared: 08/18/2016 Analyzed: 08/22/2016						
Calcium	100	4.0	mg/L	10.00	93	88	70-130			
Magnesium	560	3.0	mg/L	10.00	560	NR	70-130			M3

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0644
Date Received: 08/16/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608267 - SM2320B										
LCS (1608267-BS1)				Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		95	90-110			
LCS Dup (1608267-BSD1)				Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	240	2.0	mg/L	250.0		94	90-110	0.8	10	
Matrix Spike (1608267-MS1)		**Source: 16H0430-01**		Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	100	94	85-115			
Matrix Spike Dup (1608267-MSD1)		**Source: 16H0430-01**		Prepared & Analyzed: 08/22/2016						
Alkalinity, Total (As CaCO3)	340	2.0	mg/L	250.0	100	95	85-115	1	10	
Batch 1608287 - SM2540 C										
Duplicate (1608287-DUP1)		**Source: 16H0680-01**		Prepared: 08/23/2016 Analyzed: 08/26/2016						
Total Dissolved Solids (Residue, Filterable)	640	20	mg/L		640			0.6	5	
Duplicate (1608287-DUP2)		**Source: 16H0741-01**		Prepared: 08/23/2016 Analyzed: 08/24/2016						
Total Dissolved Solids (Residue, Filterable)	420	20	mg/L		420			1	5	

Client: Clear Creek Associates
Project: FMI-Sierrita
Work Order: 16H0644
Date Received: 08/16/2016

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1608179 - E300										
Blank (1608179-BLK1)				Prepared & Analyzed: 08/17/2016						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
LCS (1608179-BS1)				Prepared & Analyzed: 08/17/2016						
Chloride	11	1.0	mg/L	12.50		90	90-110			
Fluoride	2.0	0.50	mg/L	2.000		100	90-110			
Sulfate	12	5.0	mg/L	12.50		95	90-110			
LCS Dup (1608179-BSD1)				Prepared & Analyzed: 08/17/2016						
Chloride	11	1.0	mg/L	12.50		91	90-110	0.7	10	
Fluoride	2.0	0.50	mg/L	2.000		100	90-110	0.1	10	
Sulfate	12	5.0	mg/L	12.50		96	90-110	0.7	10	
Matrix Spike (1608179-MS1)		**Source: 16H0634-01RE1**		Prepared & Analyzed: 08/17/2016						
Chloride	18		mg/L	12.50	7.6	87	80-120			
Sulfate	33		mg/L	12.50	22	84	80-120			
Matrix Spike (1608179-MS2)		**Source: 16H0634-01**		Prepared & Analyzed: 08/17/2016						
Fluoride	3.0	0.50	mg/L	2.000	1.1	94	80-120			
Matrix Spike (1608179-MS3)		**Source: 16H0677-01**		Prepared & Analyzed: 08/17/2016						
Chloride	19	1.0	mg/L	12.50	8.1	87	80-120			
Fluoride	2.3	0.50	mg/L	2.000	0.45	93	80-120			
Sulfate	22	5.0	mg/L	12.50	11	86	80-120			
Matrix Spike Dup (1608179-MSD1)		**Source: 16H0634-01RE1**		Prepared & Analyzed: 08/17/2016						
Chloride	19		mg/L	12.50	7.6	87	80-120	0.1	10	
Sulfate	32		mg/L	12.50	22	83	80-120	0.4	10	
Matrix Spike Dup (1608179-MSD2)		**Source: 16H0634-01**		Prepared & Analyzed: 08/17/2016						
Fluoride	3.0	0.50	mg/L	2.000	1.1	94	80-120	0.3	10	
Matrix Spike Dup (1608179-MSD3)		**Source: 16H0677-01**		Prepared & Analyzed: 08/17/2016						
Chloride	19	1.0	mg/L	12.50	8.1	87	80-120	0.4	10	
Fluoride	2.3	0.50	mg/L	2.000	0.45	94	80-120	0.2	10	
Sulfate	22	5.0	mg/L	12.50	11	86	80-120	0.07	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 16HO644 DATE 8/16/16 PAGE 1 OF 1

PROJECT NAME MO-2016 Wells # 287091
CONTACT NAME Ben Daigneau
COMPANY NAME Clear Creek Associates
ADDRESS 221 N. ~~Site Ave.~~ Court Ave. Suite 101
ZIP 85701 PHONE 520-622-3222 EMAIL bdaigneau@clearcreekassociates.com
SAMPLER'S SIGNATURE Leandra X. Marshall

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX
MO-2016-6	8/16/16	14:15		GW	3	TDS, Alkalinity, chloride, fluoride, sulfate (X); Hardness as CaCO3, dissolved calcium, magnesium, potassium (X); Dissolved Sodium (X)

Base Neutrals 625/8270 ☐ Acids ☐ Volatile Organics ☐ 624 ☐ 524.2 ☐ 8260 ☐ TTHMS ☐ HAA5 ☐ Chloride ☐ Sulfate ☐ Resistivity ☐ NO_3 ☐ NO_2 ☐ TKN ☐ TPH ☐ 1664 ☐ Oil & Grease ☐ VOA ☐ TCLP Analysis Semi-VOA ☐ Pest. ☐ TCLP ☐ Metals Total ☐ Dissolved ☐ RCRA8 ☐ Cyanide Total ☐ Amen. ☐ WAD ☐ SDWA-INORGANICS PRIMARY ☐ SECONDARY ☐ Coliform MPN ☐ PIA ☐ Fecal ☐ pH ☐ Cl2 ☐ Cl ☐ Turb ☐ COD ☐ TSS ☐ BOD ☐

1. RELINQUISHED BY:
Leandra X. Marshall
Signature
Leandra X. Marshall
Printed Name
Clear Creek Associates
Firm
8/16/16 16:04
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx. 10 days)*
____ Next Day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 3
Temperature 15.9
☒ Wet Ice
☐ Ambient
☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
LC
Printed Name
TURNER LABORATORIES, INC.
Firm
8/16/16 1604
Date/Time

* LEGEND
SAMPLE MATRIX
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

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

SPECIAL INSTRUCTIONS/COMMENTS: Email reports to Ben Daigneau & Leandra Marshall lmarshall@clearcreekassociates.com

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

Analytical Report

July 19, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Deborah Chismar, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS0000079
ACZ Project ID: L31531

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 08, 2016. This project has been assigned to ACZ's project number, L31531. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L31531. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 18, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2007-6A

ACZ Sample ID: ***L31531-01***
Date Sampled: *07/05/16 10:09*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	6.74			mg/L	0.5	2.5	07/13/16 0:56	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2009-1

ACZ Sample ID: ***L31531-02***
Date Sampled: *07/05/16 11:54*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	30.3			mg/L	0.5	2.5	07/13/16 1:14	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2007-4B

ACZ Sample ID: ***L31531-03***
Date Sampled: *07/05/16 13:46*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	8.73			mg/L	0.5	2.5	07/13/16 1:32	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2007-4C

ACZ Sample ID: ***L31531-04***
Date Sampled: *07/05/16 14:20*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	54.3			mg/L	0.5	2.5	07/13/16 2:08	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2007-4A

ACZ Sample ID: ***L31531-05***
Date Sampled: *07/05/16 14:21*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	41.7			mg/L	0.5	2.5	07/13/16 2:26	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2007-3B

ACZ Sample ID: ***L31531-06***
Date Sampled: *07/06/16 10:00*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	3.74			mg/L	0.5	2.5	07/13/16 3:38	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MO-2007-3C

ACZ Sample ID: ***L31531-07***
Date Sampled: *07/06/16 10:54*
Date Received: *07/08/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	21.8			mg/L	0.5	2.5	07/13/16 4:14	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L31531***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG406128													
WG406128LFB1	LFB	07/12/16 17:11	WI151103-3	30		30.6	mg/L	102	90	110			
L31416-01DUP	DUP	07/12/16 21:57			112	111	mg/L				1	20	
L31416-02AS	AS	07/12/16 22:33	WI151103-3	150	283	434	mg/L	101	90	110			
WG406128LFB2	LFB	07/13/16 1:50	WI151103-3	30		30.7	mg/L	102	90	110			
L31531-05DUP	DUP	07/13/16 2:44			41.7	41.7	mg/L				0	20	
L31531-06AS	AS	07/13/16 3:56	WI151103-3	30	3.74	34.3	mg/L	102	90	110			

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L31531***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L31531***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L31531
Date Received: 07/08/2016 09:55
Received By: kmo
Date Printed: 7/8/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
3425	1.4	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID:	L31531
Date Received:	07/08/2016 09:55
Received By:	kmo
Date Printed:	7/8/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

L31531

CHAIN of CUSTODY

Report to:

Name: Jeff Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-6A	7/5/16 : 1009	GW	1	X							
MO-2009-1	7/5/16 : 1154	GW	1	X							
MO-2007-4B	7/5/16 : 1346	GW	1	X							
MO-2007-4C	7/5/16 :1420	GW	1	X							
MO-2007-4A	7/5/16 : 1421	GW	1	X							
MO-2007-3B	7/6/16 : 1000	GW	1	X							
MO-2007-3C	7/6/16 : 1054	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 424 2

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/7/16 : 1530		7-8-16 0955

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L31531 Chain of Custody

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

Analytical Report

August 31, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

CC: Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729 - SULFATE ONLY
ACZ Project ID: L32458

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 19, 2016. This project has been assigned to ACZ's project number, L32458. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L32458. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 30, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-28

ACZ Sample ID: ***L32458-01***
Date Sampled: *08/16/16 13:44*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02/-07 - Turbidimetric	100	1920		*	mg/L	100	500	08/30/16 13:57	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160816B

ACZ Sample ID: ***L32458-02***
Date Sampled: *08/16/16 00:00*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02/-07 - Turbidimetric	50	1960		*	mg/L	50	250	08/30/16 14:24	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32458***

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.02		.02063	mg/L	103	90	110			
WG409093ICB	ICB	08/30/16 23:10				.0005	mg/L		-0.0012	0.0012			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.009980001		.00988	mg/L	99	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.009980001	U	.00828	mg/L	83	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.009980001	U	.00844	mg/L	85	70	130	2	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.05168	mg/L	103	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.0006	0.0006			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.0501		.05155	mg/L	103	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.0501	.0013	.05543	mg/L	108	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.0501	.0013	.05593	mg/L	109	70	130	1	20	

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.04662	mg/L	93	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.00015	0.00015			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.0501		.04717	mg/L	94	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.0501	U	.04806	mg/L	96	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.0501	U	.04885	mg/L	98	70	130	2	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.04974	mg/L	99	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.0003	0.0003			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.05005		.04824	mg/L	96	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.05005	U	.04713	mg/L	94	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.05005	U	.04672	mg/L	93	70	130	1	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408927													
WG408927ICV	ICV	08/26/16 18:25	II160816-1	2		1.924	mg/L	96	95	105			
WG408927ICB	ICB	08/26/16 18:31				U	mg/L		-0.03	0.03			
WG408927LFB	LFB	08/26/16 18:44	II160802-3	.5005		.5	mg/L	100	85	115			
L32426-04AS	AS	08/26/16 19:01	II160802-3	.5005	U	.504	mg/L	101	85	115			
L32426-04ASD	ASD	08/26/16 19:04	II160802-3	.5005	U	.508	mg/L	101	85	115	1	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32458***

Cobalt, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408927													
WG408927ICV	ICV	08/26/16 18:25	II160816-1	2.002		1.912	mg/L	96	95	105			
WG408927ICB	ICB	08/26/16 18:31				U	mg/L		-0.03	0.03			
WG408927LFB	LFB	08/26/16 18:44	II160802-3	.5015		.501	mg/L	100	85	115			
L32426-04AS	AS	08/26/16 19:01	II160802-3	.5015	U	.505	mg/L	101	85	115			
L32426-04ASD	ASD	08/26/16 19:04	II160802-3	.5015	U	.51	mg/L	102	85	115	1	20	

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408927													
WG408927ICV	ICV	08/26/16 18:25	II160816-1	2		1.957	mg/L	98	95	105			
WG408927ICB	ICB	08/26/16 18:31				U	mg/L		-0.03	0.03			
WG408927LFB	LFB	08/26/16 18:44	II160802-3	.501		.505	mg/L	101	85	115			
L32426-04AS	AS	08/26/16 19:01	II160802-3	.501	U	.502	mg/L	100	85	115			
L32426-04ASD	ASD	08/26/16 19:04	II160802-3	.501	U	.506	mg/L	101	85	115	1	20	

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408628													
WG408628ICV	ICV	08/23/16 16:00	WC160823-7	2		1.906	mg/L	95	95	105			
WG408628ICB	ICB	08/23/16 16:05				U	mg/L		-0.15	0.15			
WG408628LFB1	LFB	08/23/16 16:12	WC160419-8	4.995		4.801	mg/L	96	90	110			
WG408628LFB2	LFB	08/23/16 18:59	WC160419-8	4.995		4.694	mg/L	94	90	110			
L32462-02AS	AS	08/23/16 19:41	WC160419-8	4.995	.18	4.717	mg/L	91	90	110			
L32462-02DUP	DUP	08/23/16 19:49			.18	.195	mg/L				8	20	RA

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.05279	mg/L	106	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.0003	0.0003			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.05005		.04981	mg/L	100	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.05005	U	.05055	mg/L	101	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.05005	U	.05076	mg/L	101	70	130	0	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408927													
WG408927ICV	ICV	08/26/16 18:25	II160816-1	100		98.27	mg/L	98	95	105			
WG408927ICB	ICB	08/26/16 18:31				U	mg/L		-0.6	0.6			
WG408927LFB	LFB	08/26/16 18:44	II160802-3	50.00491		48.48	mg/L	97	85	115			
L32426-04AS	AS	08/26/16 19:01	II160802-3	50.00491	2.1	51.51	mg/L	99	85	115			
L32426-04ASD	ASD	08/26/16 19:04	II160802-3	50.00491	2.1	50.54	mg/L	97	85	115	2	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32458***

Molybdenum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408927													
WG408927ICV	ICV	08/26/16 18:25	II160816-1	2		2.008	mg/L	100	95	105			
WG408927ICB	ICB	08/26/16 18:31				U	mg/L		-0.06	0.06			
WG408927LFB	LFB	08/26/16 18:44	II160802-3	.4995		.531	mg/L	106	85	115			
L32426-04AS	AS	08/26/16 19:01	II160802-3	.4995	U	.542	mg/L	109	85	115			
L32426-04ASD	ASD	08/26/16 19:04	II160802-3	.4995	U	.534	mg/L	107	85	115	1	20	

Nickel, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.04959	mg/L	99	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.0018	0.0018			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.05005		.04925	mg/L	98	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.05005	.0025	.04723	mg/L	89	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.05005	.0025	.04802	mg/L	91	70	130	2	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408953													
WG408953ICV	ICV	08/26/16 22:43	WI160607-11	2.416		2.412	mg/L	100	90	110			
WG408953ICB	ICB	08/26/16 22:44				U	mg/L		-0.02	0.02			
WG408953LFB1	LFB	08/26/16 22:46	WI160616-3	2		2.004	mg/L	100	90	110			
WG408953LFB2	LFB	08/26/16 23:25	WI160616-3	2		1.944	mg/L	97	90	110			
L32301-01AS	AS	08/26/16 23:42	WI160616-3	10	7	17.2	mg/L	102	90	110			
L32302-01DUP	DUP	08/26/16 23:44			U	U	mg/L				0	20	RA

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG408546													
WG408546PBW	PBW	08/22/16 13:00				U	mg/L		-20	20			
WG408546LCSW	LCSW	08/22/16 13:01	PCN51171	260		248	mg/L	95	80	120			
L32462-04DUP	DUP	08/22/16 13:29			686	690	mg/L				1	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.05094	mg/L	102	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.0003	0.0003			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.0501		.04956	mg/L	99	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.0501	.0004	.05385	mg/L	107	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.0501	.0004	.0556	mg/L	110	70	130	3	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32458***

Sulfate D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409083													
WG409083ICB	ICB	08/30/16 13:31				U	mg/L		-3	3			
WG409083ICV	ICV	08/30/16 13:31	WI160830-11	20		19.5	mg/L	98	90	110			
WG409083LFB	LFB	08/30/16 13:39	WI160815-8	10		9.7	mg/L	97	90	110			
L32459-01AS	AS	08/30/16 14:15	SO4TURB20X	100	2190	2260	mg/L	70	90	110			M3
L32458-02DUP	DUP	08/30/16 14:24			1960	1920	mg/L				2	20	

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG409093													
WG409093ICV	ICV	08/30/16 23:07	MS160823-2	.05		.05292	mg/L	106	90	110			
WG409093ICB	ICB	08/30/16 23:10				U	mg/L		-0.0003	0.0003			
WG409093LFB	LFB	08/30/16 23:13	MS160826-3	.0501		.0503	mg/L	100	85	115			
L32454-04AS	AS	08/31/16 0:33	MS160826-3	.0501	U	.05154	mg/L	103	70	130			
L32454-04ASD	ASD	08/31/16 0:36	MS160826-3	.0501	U	.05179	mg/L	103	70	130	0	20	

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32458***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L32458-01	WG408628	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408953	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408546	Residue, Filterable (TDS) @180C	SM2540C	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
	WG409083	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L32458-02	WG408628	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408953	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG408546	Residue, Filterable (TDS) @180C	SM2540C	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
	WG409083	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32458***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L32458
Date Received: 08/19/2016 09:57
Received By: ddp
Date Printed: 8/24/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
4543	2.3	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L32458
Date Received:	08/19/2016 09:57
Received By:	ddp
Date Printed:	8/24/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

L32458

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

CHAIN of CUSTODY

Report to:

Name: Jeff Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name:	E-mail: bdaigneau@clearcreekassociates.com
Company:	Telephone:

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Quarterly							
MH-28	8/16/16 : 1344	GW	3	x							
DUP20160816B	8/16/16 : 0000	GW	3	x							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler A / APP Sierrita
UPS Tracking # 1Z 867 7E4 23 1001 367 2
Please include copy of report to deborah_chismar@fmi.com (520-393-2347)
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	8/18/16 : 1530	WL	8/18/16 0930

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L32458 Chain of Custody

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

Analytical Report

September 01, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L32461

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 19, 2016. This project has been assigned to ACZ's project number, L32461. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L32461. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 01, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-6B

ACZ Sample ID: ***L32461-01***
Date Sampled: *08/17/16 13:23*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	28.5			mg/L	0.5	2.5	08/24/16 21:25	krh

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-1

ACZ Sample ID: ***L32461-02***
Date Sampled: *08/18/16 08:30*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1820			mg/L	10	50	08/24/16 21:42	krh

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-2

ACZ Sample ID: ***L32461-03***
Date Sampled: *08/18/16 08:40*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1940			mg/L	25	125	08/24/16 22:18	krh

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-3

ACZ Sample ID: ***L32461-04***
Date Sampled: *08/18/16 08:58*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1000			mg/L	10	50	08/24/16 22:54	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-2

ACZ Sample ID: ***L32461-05***
Date Sampled: *08/18/16 09:09*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1040			mg/L	10	50	08/24/16 23:12	krh

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-1

ACZ Sample ID: ***L32461-06***
Date Sampled: *08/18/16 09:18*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1190			mg/L	10	50	08/25/16 0:06	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-4

ACZ Sample ID: ***L32461-07***
Date Sampled: *08/18/16 09:25*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1280			mg/L	10	50	08/25/16 0:24	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160818A

ACZ Sample ID: ***L32461-08***
Date Sampled: *08/18/16 00:00*
Date Received: *08/19/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1020			mg/L	25	125	08/25/16 0:42	krh

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32461***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG408727													
WG408727LFB1	LFB	08/24/16 17:14	WI160802-5	30		31	mg/L	103	90	110			
L32431-01DUP	DUP	08/24/16 17:50			926	932	mg/L				1	20	
L32431-02AS	AS	08/24/16 18:25	WI160802-5	30	U	30.8	mg/L	103	90	110			
L32461-02DUP	DUP	08/24/16 22:00			1820	1840	mg/L				1	20	
L32461-03AS	AS	08/24/16 22:36	WI160802-5	1500	1940	3460	mg/L	101	90	110			
WG408727LFB2	LFB	08/25/16 1:53	WI160802-5	30		31.1	mg/L	104	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32461***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32461***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L32461
Date Received: 08/19/2016 09:57
Received By: ddp
Date Printed: 8/24/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
4543	2.3	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L32461
Date Received:	08/19/2016 09:57
Received By:	ddp
Date Printed:	8/24/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

L32461

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-6B	8/17/16 : 1323	GW	1	X							
FFS-1	8/18/16 : 0830	GW	1	X							
FFS-2	8/18/16 : 0840	GW	1	X							
PS-3	8/18/16 : 0858	GW	1	X							
PS-2	8/18/16 : 0909	GW	1	X							
PS-1	8/18/16 : 0918	GW	1	X							
PS-4	8/18/16 : 0925	GW	1	X							
DUP20160818A	8/18/16 : 0000	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Cooler A / Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

Please include copy of report to deborah_chismar@fmi.com

UPS Tracking # 1Z 867 7E4 23 1001 367 2

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	8/18/16 : 1530		8/19/16 0957

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L32461 Chain of Custody

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

Analytical Report

September 14, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Deborah Chismar, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L32607

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 26, 2016. This project has been assigned to ACZ's project number, L32607. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L32607. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 14, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-9

ACZ Sample ID: ***L32607-01***
Date Sampled: *08/22/16 10:03*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	47.5			mg/L	0.5	2.5	09/01/16 19:46	bsu

Arizona license number: AZ0102

ACZ Laboratories, Inc.
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Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-5

ACZ Sample ID: ***L32607-02***
Date Sampled: *08/22/16 10:55*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1440			mg/L	10	50	09/01/16 20:04	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-24

ACZ Sample ID: ***L32607-03***
Date Sampled: *08/22/16 13:57*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1770			mg/L	10	50	09/01/16 20:58	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-26

ACZ Sample ID: ***L32607-04***
Date Sampled: *08/22/16 14:14*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1670			mg/L	10	50	09/09/16 15:14	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-4

ACZ Sample ID: ***L32607-05***
Date Sampled: *08/22/16 14:06*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	100	1830			mg/L	50	250	09/12/16 14:22	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-3

ACZ Sample ID: ***L32607-06***
Date Sampled: *08/22/16 10:36*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1580			mg/L	10	50	09/09/16 16:25	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-27

ACZ Sample ID: ***L32607-07***
Date Sampled: *08/22/16 13:48*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1820			mg/L	10	50	09/09/16 16:43	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-4

ACZ Sample ID: ***L32607-08***
Date Sampled: *08/22/16 10:45*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1380			mg/L	10	50	09/09/16 17:01	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-2

ACZ Sample ID: ***L32607-09***
Date Sampled: *08/22/16 11:41*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1120			mg/L	10	50	09/09/16 17:19	krh

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-1

ACZ Sample ID: ***L32607-10***
Date Sampled: *08/22/16 10:25*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1700			mg/L	10	50	09/01/16 16:44	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-3

ACZ Sample ID: ***L32607-11***
Date Sampled: *08/22/16 11:14*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1410			mg/L	10	50	09/01/16 17:01	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-6

ACZ Sample ID: ***L32607-12***
Date Sampled: *08/22/16 11:06*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1250			mg/L	10	50	09/01/16 17:19	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-10

ACZ Sample ID: ***L32607-13***
Date Sampled: *08/22/16 08:57*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	54.4			mg/L	0.5	2.5	09/01/16 18:13	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-4

ACZ Sample ID: ***L32607-14***
Date Sampled: *08/22/16 11:25*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1320			mg/L	10	50	09/01/16 18:31	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-6

ACZ Sample ID: ***L32607-15***
Date Sampled: *08/22/16 09:08*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	91.7			mg/L	0.5	2.5	09/01/16 18:49	bsu

Arizona license number: AZ0102

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

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: M-8

ACZ Sample ID: ***L32607-16***
Date Sampled: *08/25/16 09:01*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	36.4			mg/L	0.5	2.5	09/01/16 19:07	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32607***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	50		51.1	mg/L	102	90	110			
WG404021ICB	ICB	06/01/16 15:59				U	mg/L		-0.5	0.5			
WG409205													
WG409205LFB1	LFB	09/01/16 14:56	WI160802-5	30		30.7	mg/L	102	90	110			
L32338-02DUP	DUP	09/01/16 15:32			201	202	mg/L				0	20	
L32340-01AS	AS	09/01/16 16:08	WI160802-5	150	214	372	mg/L	105	90	110			
WG409205LFB2	LFB	09/01/16 23:36	WI160802-5	30		30.4	mg/L	101	90	110			
WG409225													
WG409225LFB	LFB	09/01/16 17:41	WI160802-5	30		30.9	mg/L	103	90	110			
L32432-01DUP	DUP	09/01/16 18:52			21.4	21.5	mg/L				0	20	
L32485-01AS	AS	09/01/16 19:28	WI160802-5	150	246	407	mg/L	107	90	110			
WG409365													
WG409365LFB1	LFB	09/09/16 14:56	WI160802-5	30		30.6	mg/L	102	90	110			
L32607-04DUP	DUP	09/09/16 15:32			1670	1660	mg/L				1	20	
WG409365LFB2	LFB	09/09/16 23:53	WI160802-5	30		30.6	mg/L	102	90	110			
L32607-05AS	AS	09/12/16 14:40	WI160802-5	3000	1830	4920	mg/L	103	90	110			

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32607***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32607***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L32607
Date Received: 08/26/2016 09:58
Received By: kmo
Date Printed: 8/26/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
3922	2.5	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L32607
Date Received:	08/26/2016 09:58
Received By:	kmo
Date Printed:	8/26/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493 L32607

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
CW-9	8/22/16 : 1003	GW	1	X							
FFS-5	8/22/16 : 1055	GW	1	X							
IW-24	8/22/16 : 1357	GW	1	X							
IW-26	8/22/16 : 1414	GW	1	X							
IW-4	8/22/16 : 1406	GW	1	X							
FFS-3	8/22/16 : 1036	GW	1	X							
IW-27	8/22/16 : 1348	GW	1	X							
FFS-4	8/22/16 : 1045	GW	1	X							
MC-2	8/22/16 : 1141	GW	1	X							
MC-1	8/22/16 : 1025	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates Page 1 of 2 / Cooler A
UPS Tracking # 1Z 867 7E4 23 1001 422 4
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	8/25/16 : 1530		8/26/16 0959

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L32607 Chain of Custody

ACZ Laboratories, Inc.

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

L32607

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MC-3	8/22/16 : 1114	GW	1	X							
FFS-6	8/22/16 : 1106	GW	1	X							
CW-10	8/22/16 : 0857	GW	1	X							
MC-4	8/22/16 : 1125	GW	1	X							
CW-6	8/22/16 : 0908	GW	1	X							
M-8	8/25/16 : 0901	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates Page 2 of 2 / Cooler A
UPS Tracking # 1Z 867 7E4 23 1001 422 4
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	8/25/16 : 1530		8/26/16 0958

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

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

Analytical Report

September 02, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Deborah Chismar

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L32608

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 26, 2016. This project has been assigned to ACZ's project number, L32608. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L32608. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 02, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-15

ACZ Sample ID: ***L32608-01***
Date Sampled: *08/22/16 12:40*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1950			mg/L	10	50	09/01/16 19:25	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-10

ACZ Sample ID: ***L32608-02***
Date Sampled: *08/22/16 13:35*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	2010			mg/L	25	125	09/02/16 10:02	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-21

ACZ Sample ID: ***L32608-03***
Date Sampled: *08/22/16 12:22*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1790			mg/L	10	50	09/01/16 20:36	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-11

ACZ Sample ID: ***L32608-04***
Date Sampled: *08/22/16 13:05*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1820			mg/L	10	50	09/01/16 20:54	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-12

ACZ Sample ID: ***L32608-05***
Date Sampled: *08/22/16 12:57*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1640			mg/L	10	50	09/01/16 21:48	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-28

ACZ Sample ID: ***L32608-06***
Date Sampled: *08/22/16 13:25*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1780			mg/L	10	50	09/01/16 22:06	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-8

ACZ Sample ID: ***L32608-07***
Date Sampled: *08/23/16 13:04*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1880			mg/L	10	50	09/01/16 22:24	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-2A

ACZ Sample ID: ***L32608-08***
Date Sampled: *08/23/16 13:22*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	270			mg/L	2.5	12.5	09/02/16 10:37	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-1

ACZ Sample ID: ***L32608-09***
Date Sampled: *08/23/16 13:31*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1290			mg/L	10	50	09/01/16 23:00	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: NP-2

ACZ Sample ID: ***L32608-10***
Date Sampled: *08/23/16 10:42*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	45.9			mg/L	0.5	2.5	09/01/16 23:18	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4A

ACZ Sample ID: ***L32608-11***
Date Sampled: *08/24/16 10:47*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	41.5		*	mg/L	0.5	2.5	09/01/16 23:54	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4B

ACZ Sample ID: ***L32608-12***
Date Sampled: *08/24/16 10:12*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	3.06		*	mg/L	0.5	2.5	09/02/16 0:12	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4C

ACZ Sample ID: ***L32608-13***
Date Sampled: *08/24/16 10:47*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	53.7		*	mg/L	0.5	2.5	09/02/16 1:23	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3B

ACZ Sample ID: ***L32608-14***
Date Sampled: *08/24/16 12:52*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1		U	*	mg/L	0.5	2.5	09/02/16 1:59	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3C

ACZ Sample ID: ***L32608-15***
Date Sampled: *08/24/16 13:50*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	18.7		*	mg/L	0.5	2.5	09/02/16 2:17	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-1

ACZ Sample ID: ***L32608-16***
Date Sampled: *08/24/16 08:14*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	34.1		*	mg/L	0.5	2.5	09/02/16 2:35	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: M-9

ACZ Sample ID: ***L32608-17***
Date Sampled: *08/24/16 15:05*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	10.6		*	mg/L	0.5	2.5	09/02/16 2:53	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160822A

ACZ Sample ID: ***L32608-18***
Date Sampled: *08/22/16 00:00*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1520		*	mg/L	10	50	09/02/16 10:55	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160822B

ACZ Sample ID: ***L32608-19***
Date Sampled: *08/22/16 00:00*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1970		*	mg/L	10	50	09/02/16 3:29	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160824A

ACZ Sample ID: ***L32608-20***
Date Sampled: *08/24/16 00:00*
Date Received: *08/26/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	42.1		*	mg/L	0.5	2.5	09/02/16 3:47	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32608***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG409205													
WG409205LFB1	LFB	09/01/16 14:56	WI160802-5	30		30.7	mg/L	102	90	110			
L32608-01DUP	DUP	09/01/16 19:43			1950	1970	mg/L				1	20	
WG409205LFB2	LFB	09/01/16 23:36	WI160802-5	30		30.4	mg/L	101	90	110			
L32608-12DUP	DUP	09/02/16 0:29			3.06	2.93	mg/L				4	20	RA
L32608-13AS	AS	09/02/16 1:41	WI160802-5	30	53.7	82.7	mg/L	97	90	110			
L32608-02AS	AS	09/02/16 10:19	WI160802-5	1500	2010	3530	mg/L	101	90	110			

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32608***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L32608-11	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-12	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-13	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-14	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-15	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-16	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-17	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-18	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-19	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32608-20	WG409205	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32608***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L32608
Date Received: 08/26/2016 09:58
Received By: kmo
Date Printed: 8/26/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
4405	5.8	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L32608
Date Received:	08/26/2016 09:58
Received By:	kmo
Date Printed:	8/26/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L32608

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
IW-15	8/22/16 : 1240	GW	1	X							
IW-10	8/22/16 : 1335	GW	1	X							
IW-21	8/22/16 : 1222	GW	1	X							
IW-11	8/22/16 : 1305	GW	1	X							
IW-12	8/22/16 : 1257	GW	1	X							
IW-28	8/22/16 : 1325	GW	1	X							
IW-8	8/23/16 : 1304	GW	1	X							
IW-2A	8/23/16 : 1322	GW	1	X							
IW-1	8/23/16 : 1331	GW	1	X							
NP-2	8/23/16 : 1042	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates Page 1 of 2 / Cooler B

UPS Tracking # 1Z 867 7E4 23 1001 423 3

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

Please include copy of report to deborah_chismar@fmi.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	8/25/16 : 1530		8/26/16 0858

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L32608 Chain of Custody

ACZ Laboratories, Inc. L32608

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-4A	8/24/16 : 1047	GW	1	x							
MO-2007-4B	8/24/16 : 1012	GW	1	x							
MO-2007-4C	8/24/16 : 1047	GW	1	x							
MO-2007-3B	8/24/16 : 1252	GW	1	x							
MO-2007-3C	8/24/16 : 1350	GW	1	x							
GV-1	8/24/16 : 0814	GW	1	x							
M-9	8/24/16 : 1505	GW	1	x							
DUP20160822A	8/22/16 : 0000	GW	1	x							
DUP20160822B	8/22/16 : 0000	GW	1	x							
DUP20160824A	8/24/16 : 0000	GW	1	x							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates Page 2 of 2/ Cooler B
UPS Tracking # 1Z 867 7E4 23 1001 423 3
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	8/25/16 : 1530	MPL	8/26 0958

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

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

Analytical Report

September 22, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Deborah Chismar, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L32822

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 09, 2016. This project has been assigned to ACZ's project number, L32822. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L32822. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 22, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-22

ACZ Sample ID: ***L32822-01***
Date Sampled: *09/06/16 09:30*
Date Received: *09/09/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1850		*	mg/L	10	50	09/13/16 21:54	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: ESP-2

ACZ Sample ID: ***L32822-02***
Date Sampled: *09/07/16 08:44*
Date Received: *09/09/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	31.9		*	mg/L	0.5	2.5	09/13/16 22:12	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: ESP-3

ACZ Sample ID: ***L32822-03***
Date Sampled: *09/07/16 09:45*
Date Received: *09/09/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	38.0		*	mg/L	0.5	2.5	09/13/16 22:30	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20160907A

ACZ Sample ID: ***L32822-04***
Date Sampled: *09/07/16 00:00*
Date Received: *09/09/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	37.8		*	mg/L	0.5	2.5	09/14/16 20:05	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L32822***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG404021													
WG404021ICV	ICV	06/01/16 15:41	WI160601-1	50		51.1	mg/L	102	90	110			
WG404021ICB	ICB	06/01/16 15:59				U	mg/L		-0.5	0.5			
WG409668													
WG409668LFB1	LFB	09/13/16 10:51	WI160802-5	30		30.4	mg/L	101	90	110			
WG409668LFB2	LFB	09/13/16 19:30	WI160802-5	30		30.4	mg/L	101	90	110			
L32819-05AS	AS	09/13/16 21:36	WI160802-5	300	U	304	mg/L	101	90	110			
L32819-04DUP	DUP	09/14/16 19:47			U	U	mg/L				0	20	RA

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

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32822***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L32822-01	WG409668	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32822-02	WG409668	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32822-03	WG409668	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L32822-04	WG409668	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L32822***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L32822
Date Received: 09/09/2016 10:28
Received By: kmo
Date Printed: 9/9/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
2956	2.8	<=6.0	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L32822
Date Received:	09/09/2016 10:28
Received By:	kmo
Date Printed:	9/9/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L32822

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [ ] NO [ ]

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES [ ] NO [X]

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
IW-22	9/6/16 : 0930	GW	1	X							
ESP-2	9/7/16 : 0844	GW	1	X							
ESP-3	9/7/16 : 0945	GW	1	X							
DUP20160907A	9/7/16 : 0000	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS:

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 421 5

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	9/7/16 : 1530	DJB	9/9/16 10:28

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L32822 Chain of Custody

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

Analytical Report

September 29, 2016

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Deborah Chismar, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L33111

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 23, 2016. This project has been assigned to ACZ's project number, L33111. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L33111. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 29, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-5B

ACZ Sample ID: ***L33111-01***
Date Sampled: *09/21/16 09:43*
Date Received: *09/23/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	511			mg/L	5	25	09/28/16 19:13	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-5C

ACZ Sample ID: ***L33111-02***
Date Sampled: *09/21/16 11:00*
Date Received: *09/23/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	74.4			mg/L	2.5	12.5	09/28/16 19:49	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-26B

ACZ Sample ID: ***L33111-03***
Date Sampled: *09/21/16 11:38*
Date Received: *09/23/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1720			mg/L	10	50	09/29/16 11:17	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-26C

ACZ Sample ID: ***L33111-04***
Date Sampled: *09/21/16 11:47*
Date Received: *09/23/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1160			mg/L	10	50	09/29/16 11:35	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-25B

ACZ Sample ID: ***L33111-05***
Date Sampled: *09/21/16 12:57*
Date Received: *09/23/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1190			mg/L	10	50	09/29/16 11:53	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-25C

ACZ Sample ID: ***L33111-06***
Date Sampled: *09/21/16 14:06*
Date Received: *09/23/16*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1160			mg/L	10	50	09/29/16 12:11	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

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

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L33111***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG400298													
WG400298ICV	ICV	03/14/16 19:12	WI160202-2	50.05		51.4	mg/L	103	90	110			
WG400298ICB	ICB	03/14/16 19:30				U	mg/L		-0.5	0.5			
WG410614													
WG410614LFB	LFB	09/28/16 18:55	WI160802-5	30		30	mg/L	100	90	110			
L33111-01DUP	DUP	09/28/16 19:31			511	512	mg/L				0	20	
L33111-02AS	AS	09/28/16 20:07	WI160802-5	150	74.4	223	mg/L	99	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L33111***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L33111***

No certification qualifiers associated with this analysis

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L33111
Date Received: 09/23/2016 10:13
Received By: kmo
Date Printed: 9/23/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
3050	2.4	<=6.0	16	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

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

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L33111
Date Received:	09/23/2016 10:13
Received By:	kmo
Date Printed:	9/23/2016

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L33111

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

CHAIN of CUSTODY

Report to:

Name: Jeff_Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-5B	9/21/16 : 0943	GW	1	X							
MO-2007-5C	9/21/16 : 1100	GW	1	X							
MH-26B	9/21/16 : 1138	GW	1	X							
MH-26C	9/21/16 : 1147	GW	1	X							
MH-25B	9/21/16 : 1257	GW	1	X							
MH-25C	9/21/16 : 1406	GW	1	X							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Sulfates
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to deborah_chismar@fmi.com
UPS Tracking # 1Z 867 7E4 23 1001 420 6

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	9/22/16 : 1530	BJP	9/23/16 1013

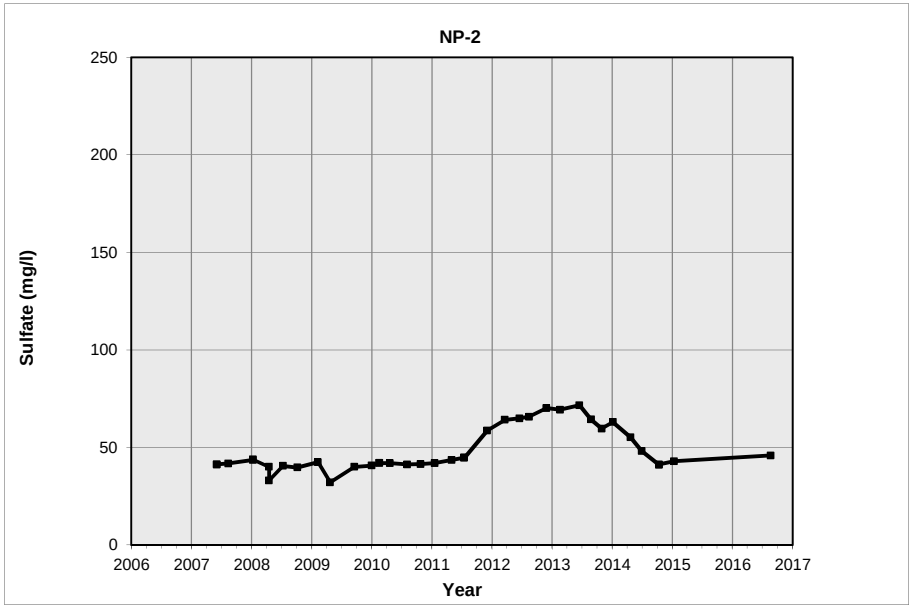
L33111 Chain of Custody

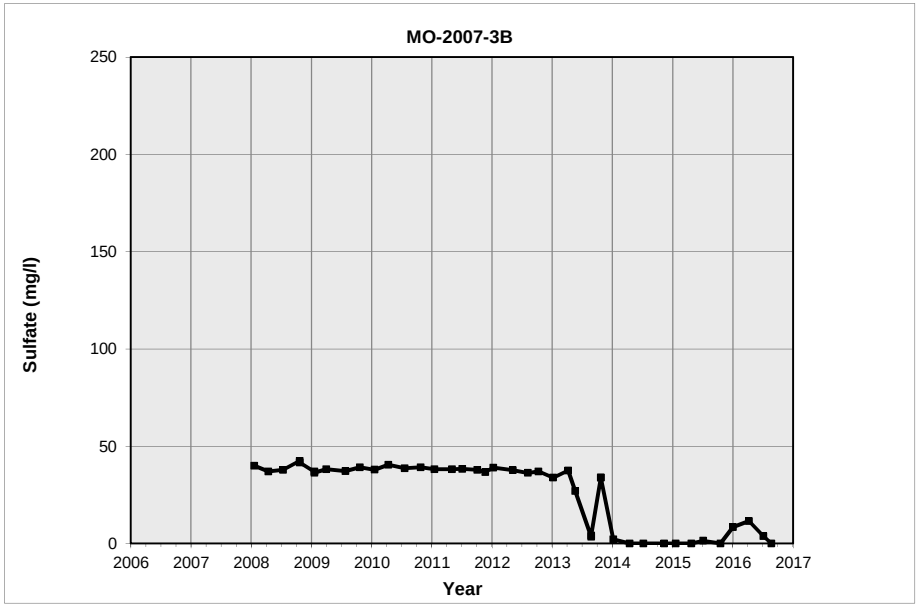
FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

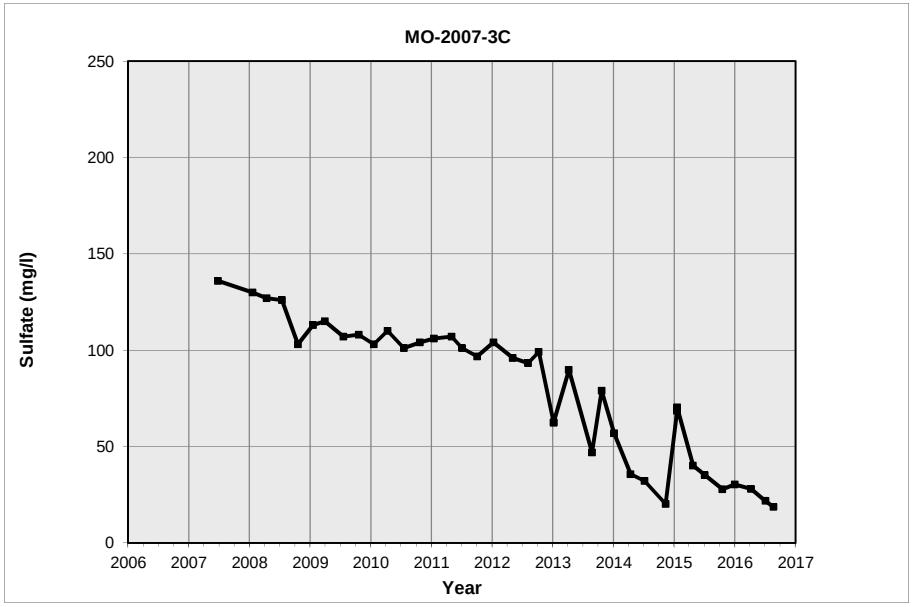
APPENDIX C

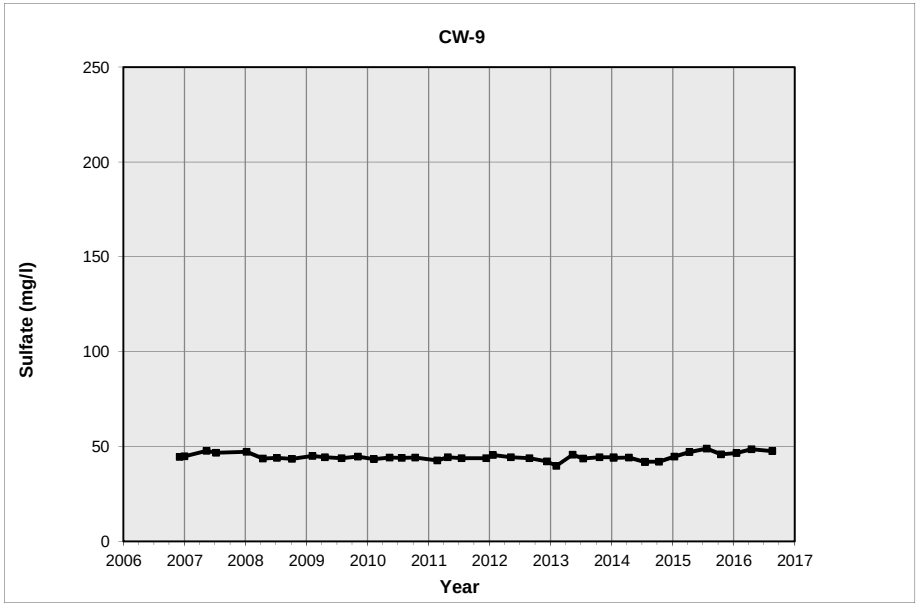
TIME SERIES GRAPHS OF SULFATE CONCENTRATION

FIGURE C.1
SULFATE CONCENTRATION OVER TIME FOR WELLS
NP-2, MO-2007-3B, MO-2007-3C, AND CW-9



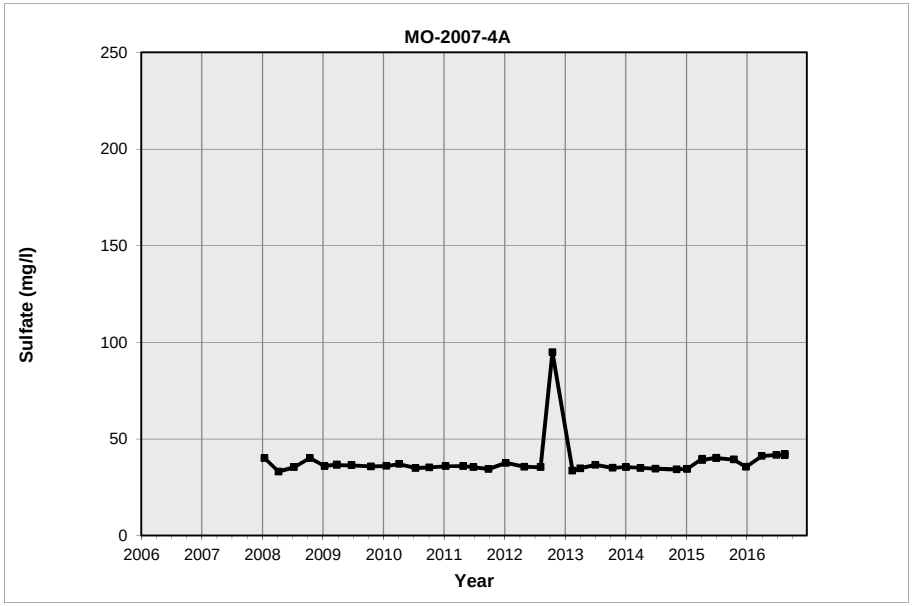


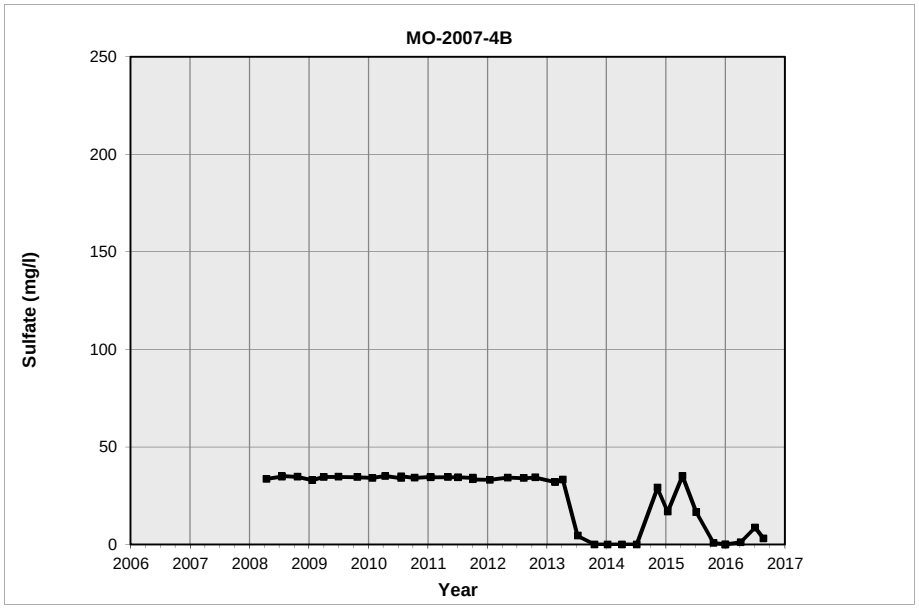


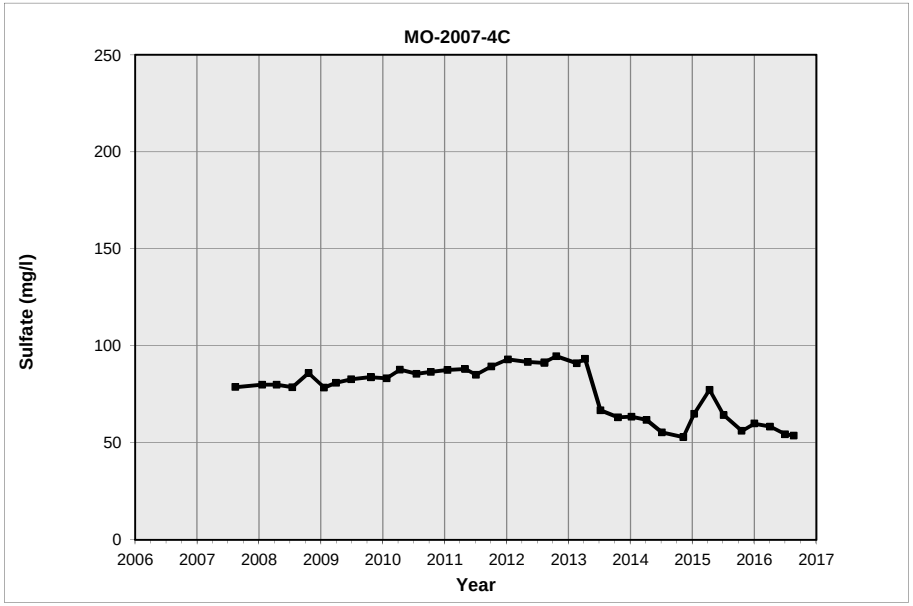


CLEAR CREEK ASSOCIATES

FIGURE C.2
SULFATE CONCENTRATION OVER TIME FOR WELLS
MO-2007-4A, MO-2007-4B, MO-2007-4C, AND CW-6







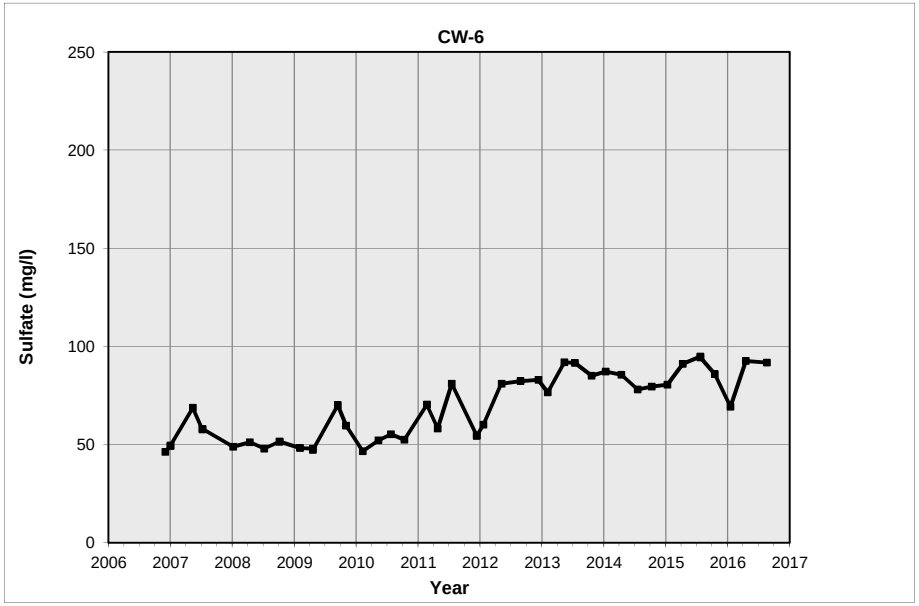
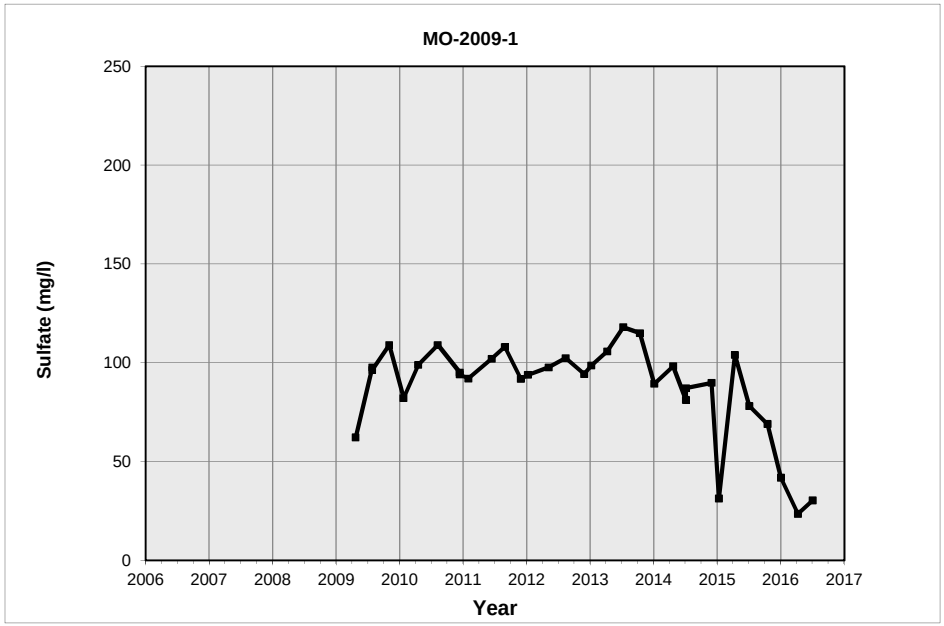


FIGURE C.3
SULFATE CONCENTRATION OVER TIME FOR WELLS MO-2009-1 AND CW-10



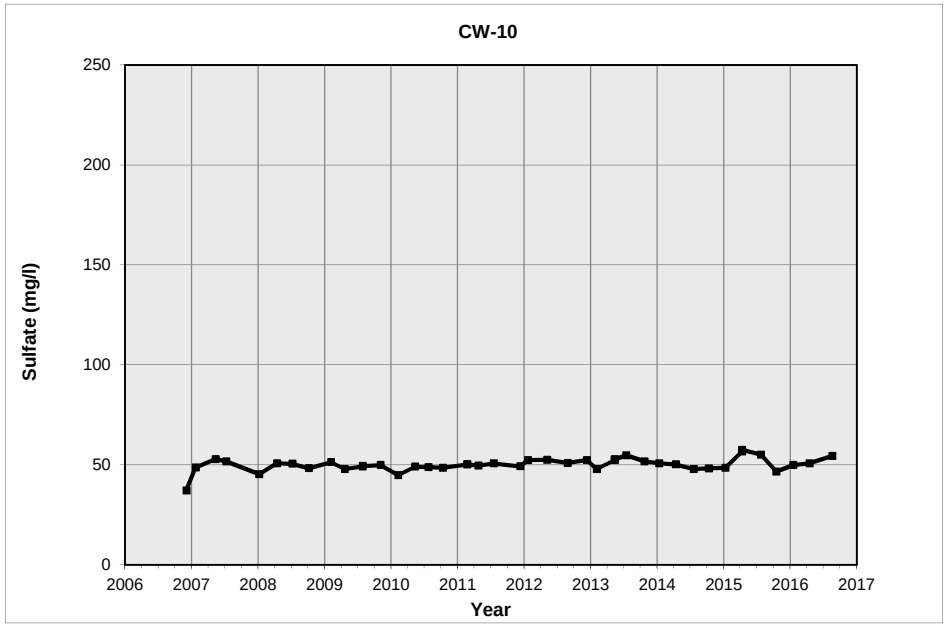
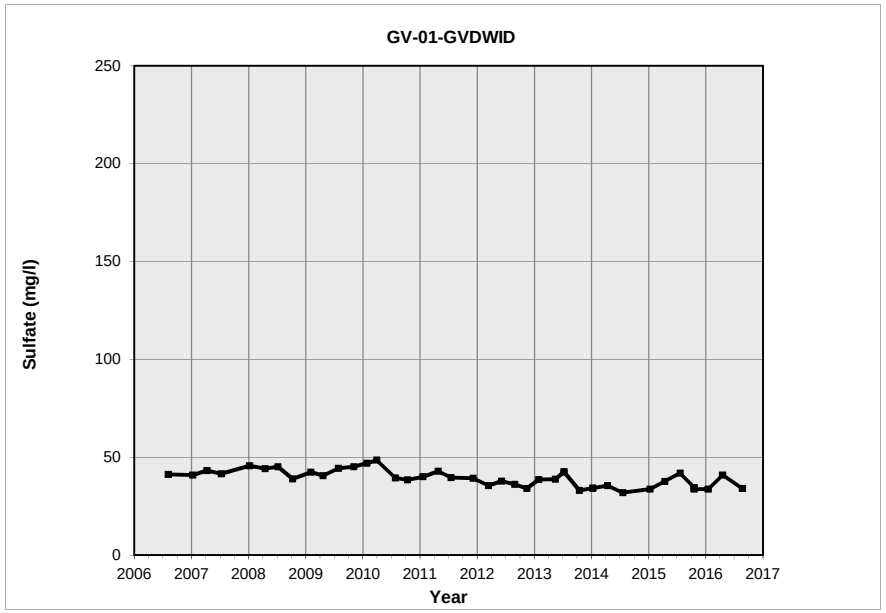
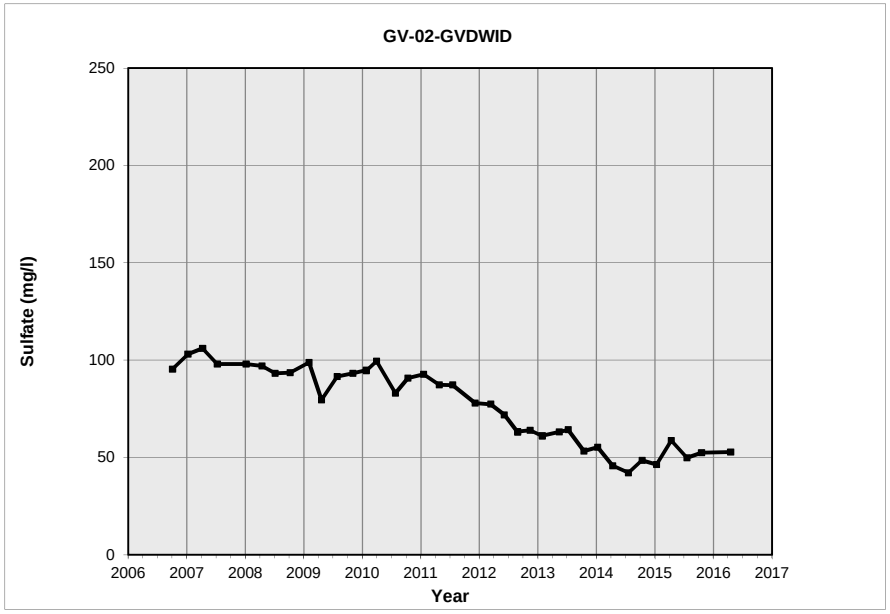
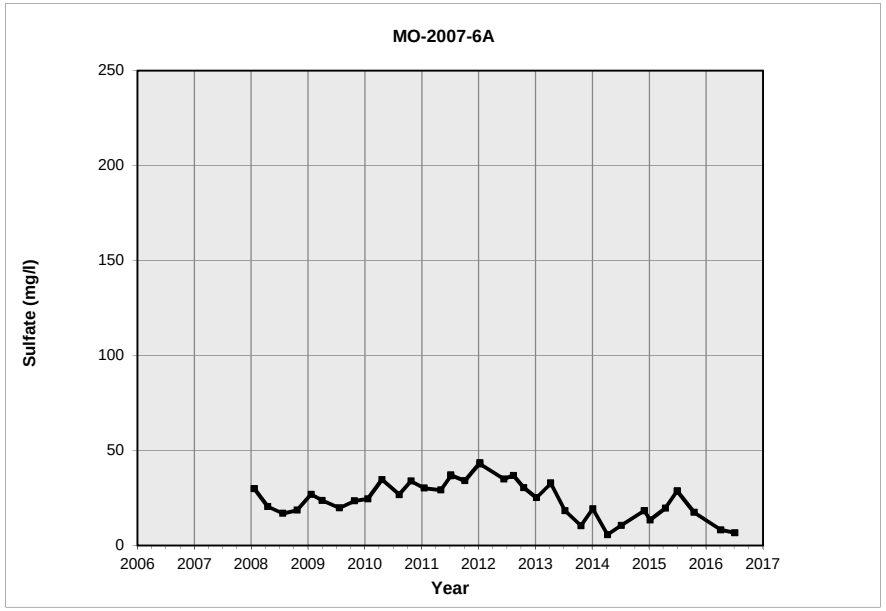


FIGURE C.4
SULFATE CONCENTRATION OVER TIME FOR WELLS
GV-01-GVDWID, GV-02-GVDWID, MO-2007-6A, AND MO-2007-6B







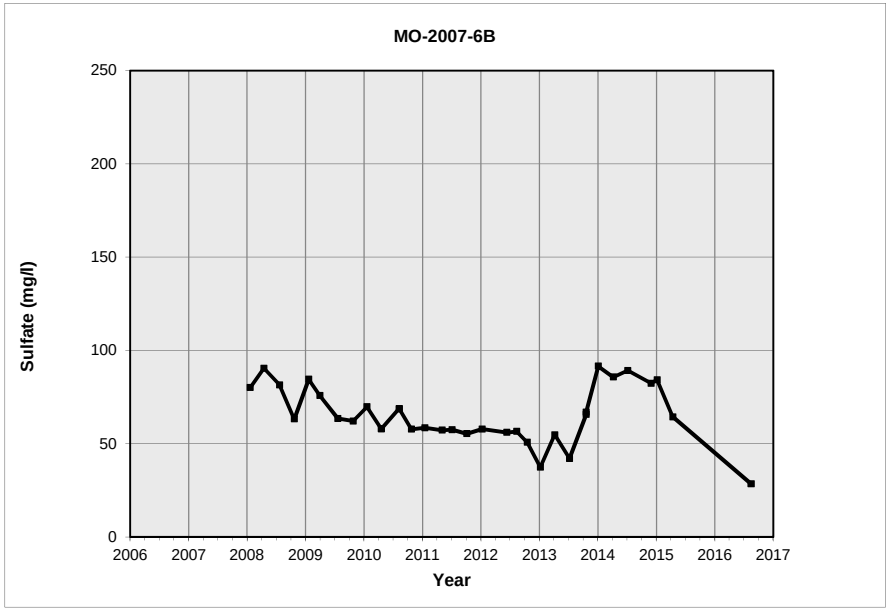
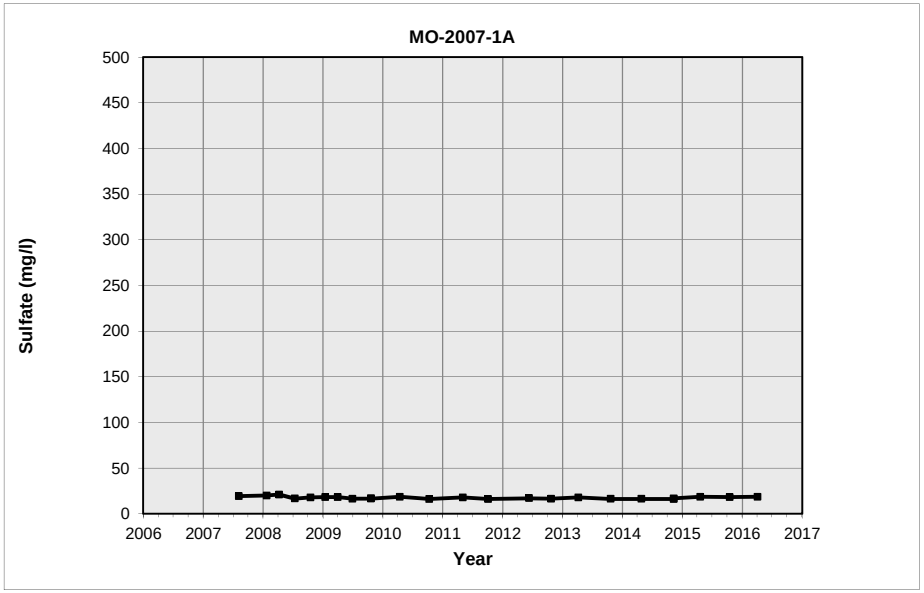
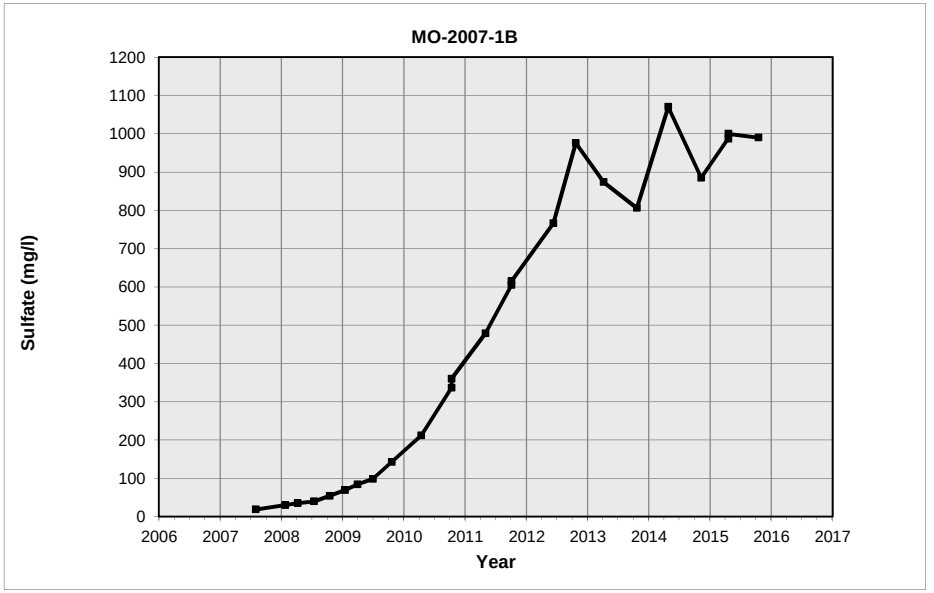


FIGURE C.5
SULFATE CONCENTRATION OVER TIME FOR WELLS
MO-2007-1A, MO-2007-1B, AND MO-2007-1C





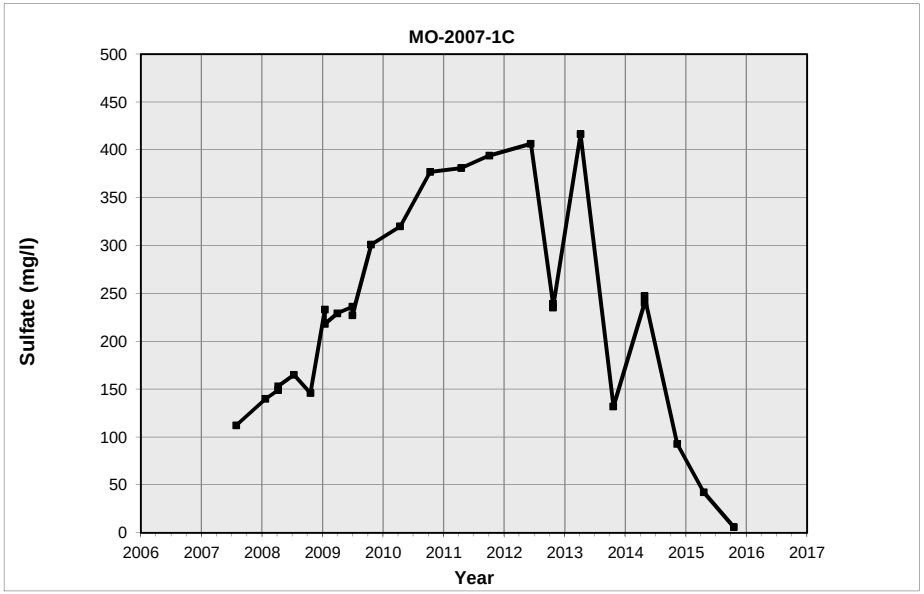
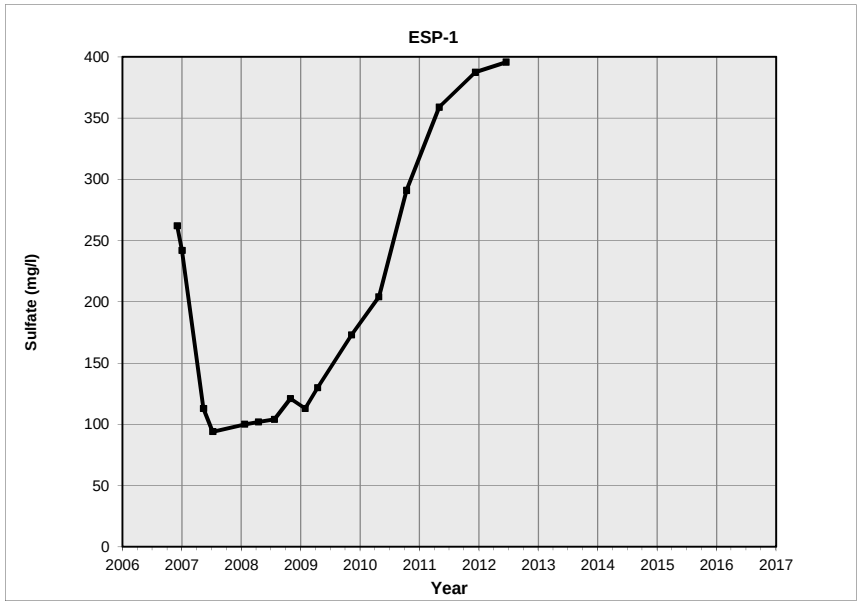
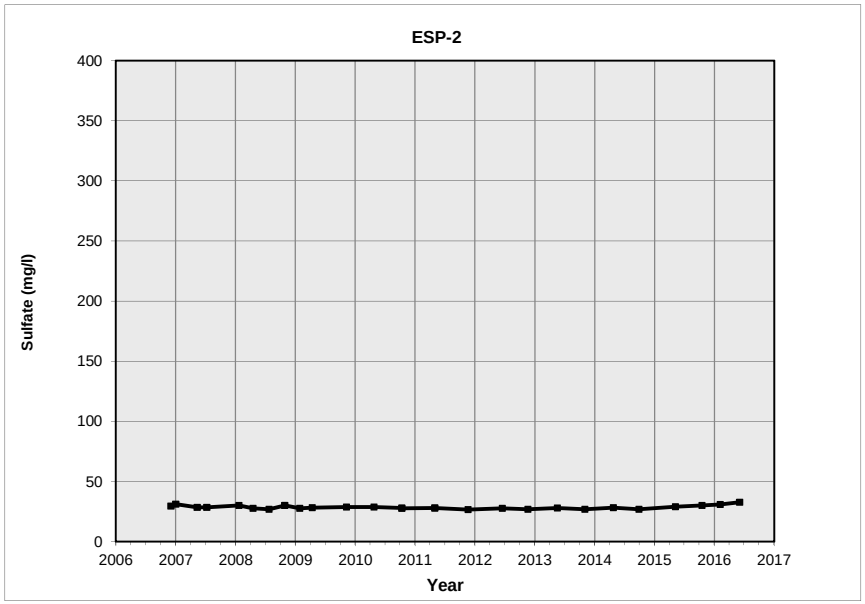
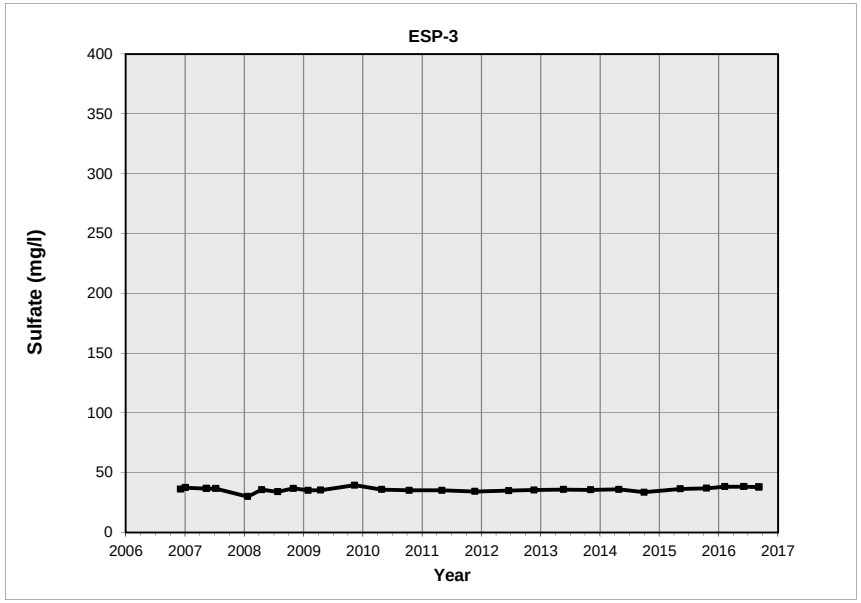
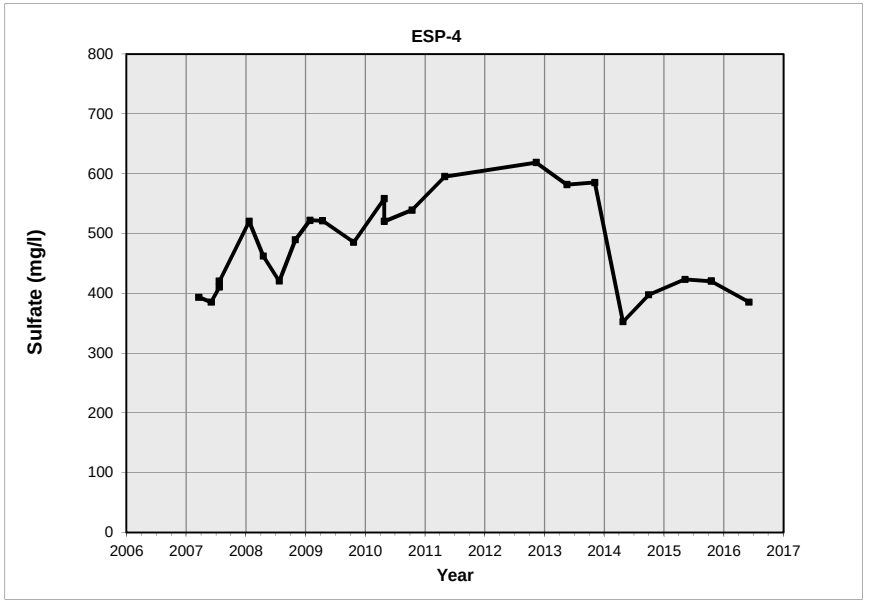


FIGURE C.6
SULFATE CONCENTRATION OVER TIME FOR WELLS
ESP-1, ESP-2, ESP-3, AND ESP-4



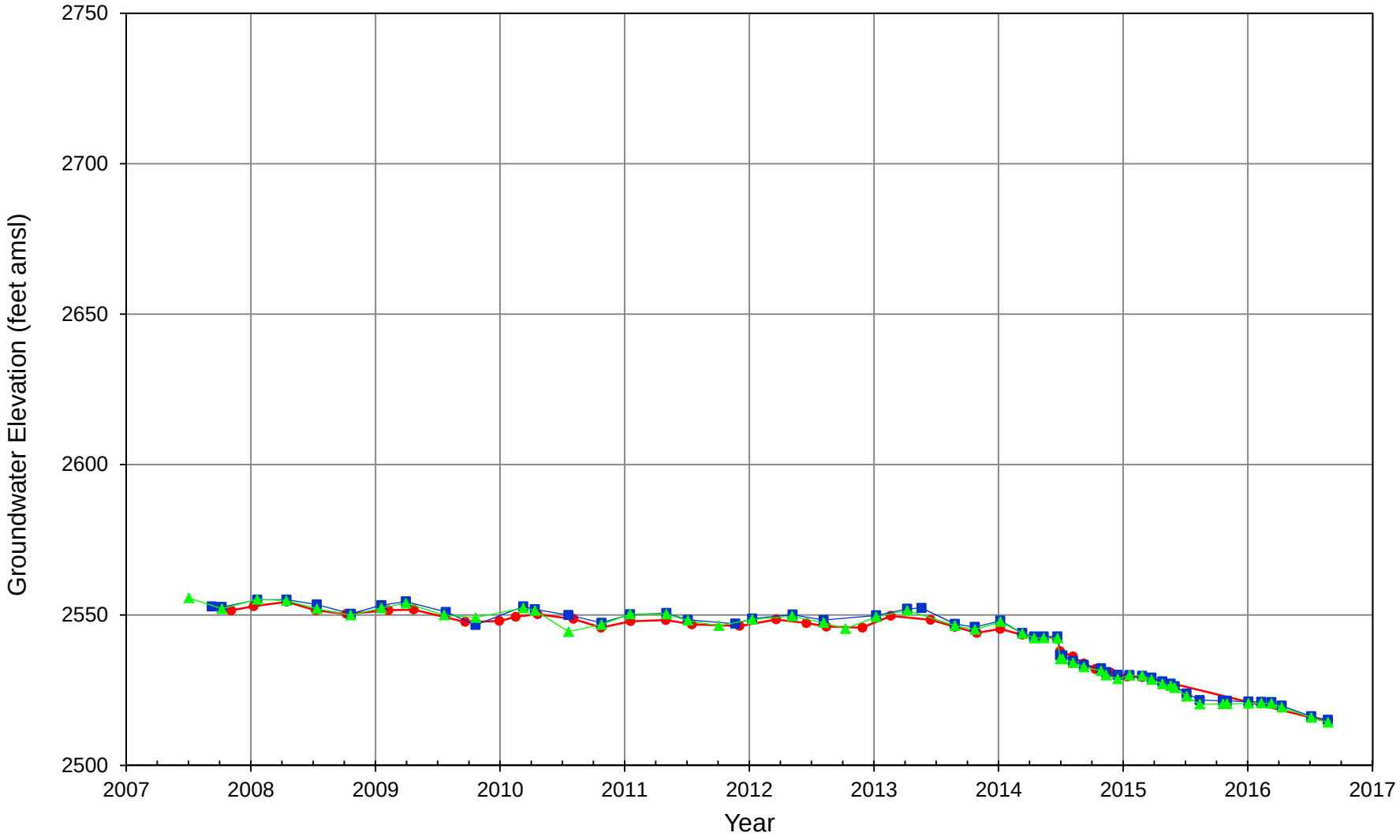






APPENDIX D

TIME SERIES GRAPHS OF GROUNDWATER ELEVATION IN SENTINEL WELLS

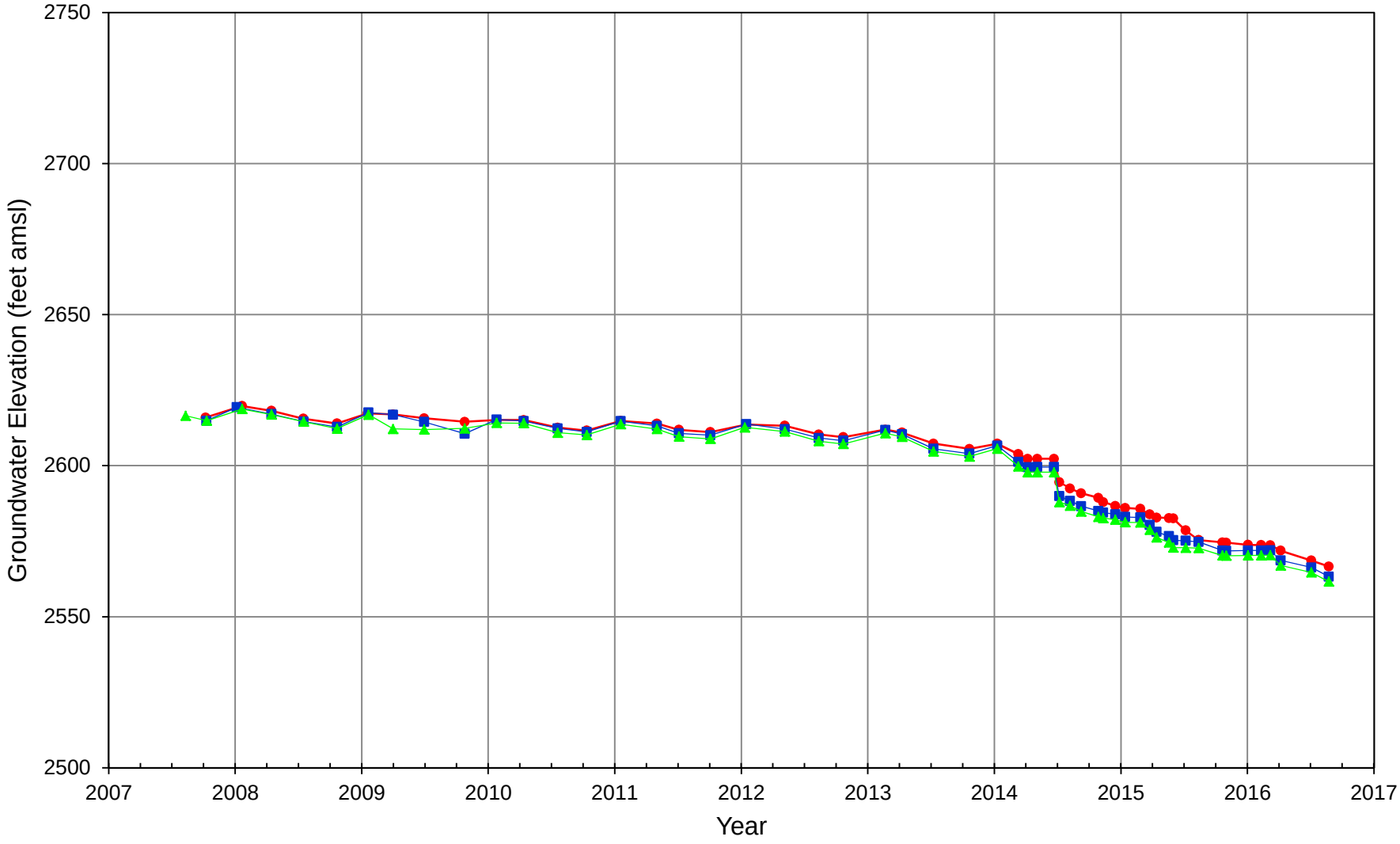


Note: ft amsl = feet above mean sea level

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FIGURE D.1
Groundwater Elevations Over Time for Sentinel Wells NP-2, MO-2007-3B, and MO-2007-3C

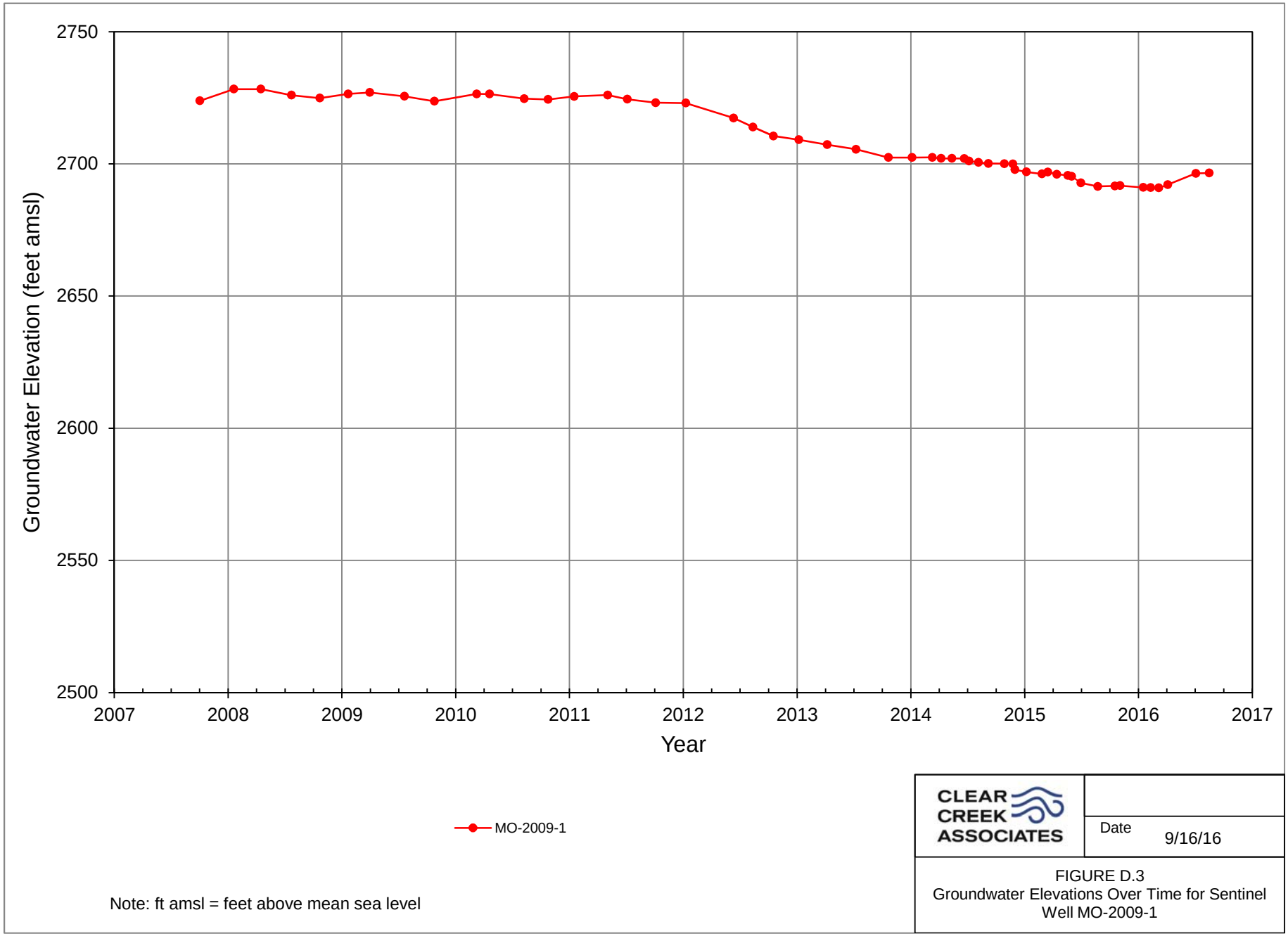


Note: ft amsl = feet above mean sea level

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FIGURE D.2
Groundwater Elevations Over Time for Sentinel Wells MO-2007-4A, MO-2007-4B, and MO-2007-4C

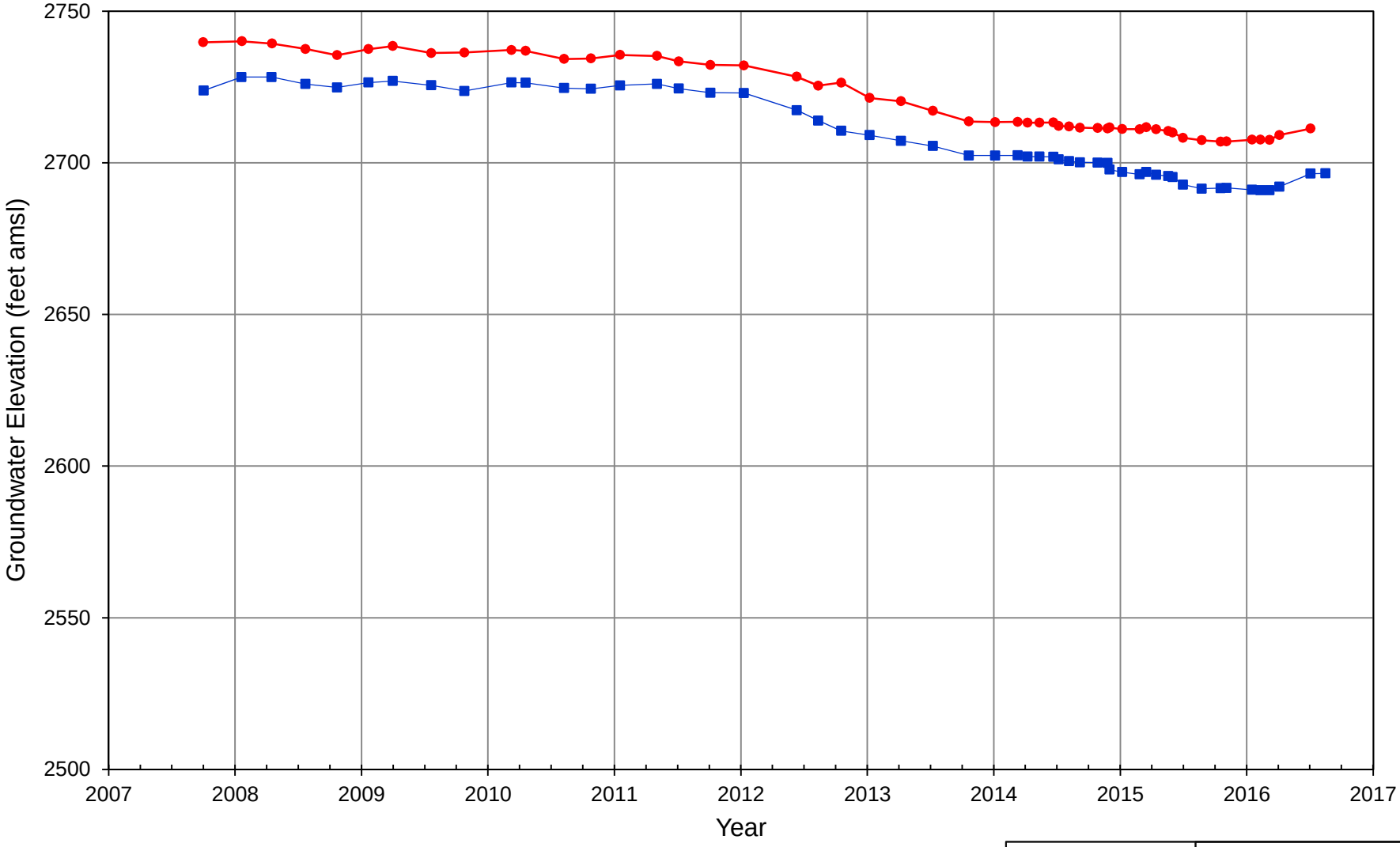


Note: ft amsl = feet above mean sea level

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FIGURE D.3
Groundwater Elevations Over Time for Sentinel Well MO-2009-1



Note: ft amsl = feet above mean sea level

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Date 9/16/16

FIGURE D.4
Groundwater Elevations Over Time for Sentinel Wells MO-2007-6A and MO-2007-6B