

FREEPORT-MCMORAN

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April 24, 2019

Via Certified Mail # 7015 1520 0002 5365 8864
Return Receipt Requested

Mr. Oliver Navo
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
Reporting Year 2018 Mitigation Performance Review Report

Dear Mr. Navo:

In accordance with Section 5.2 of the Mitigation Plan¹, Freeport-McMoRan Sierrita Inc. submits the enclosed *Mitigation Performance Review* for reporting year 2018.

Please do not hesitate to contact me at (520) 393-2014 if you have any questions regarding this submittal.

Sincerely,



William S Hart
Sr. Environmental Specialist
Freeport-McMoRan Sierrita Inc.

WH/dmc
Attachment(s)
20190424_001

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.

MITIGATION PERFORMANCE REVIEW FOR 2018

MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06



Prepared for:

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April 19, 2019

**MITIGATION PERFORMANCE REVIEW FOR 2018
MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06**

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1.0 INTRODUCTION

This mitigation performance review for 2018 evaluates the effectiveness of the mitigation action conducted by Freeport-McMoRan Sierrita Inc. (Sierrita) to address a groundwater plume of sulfate in the vicinity of the Sierrita Tailing Impoundment (STI) near Green Valley, Arizona (Figure 1). The mitigation action is conducted pursuant to Mitigation Order on Consent No. P-50-06 between the Arizona Department of Environmental Quality (ADEQ) and Sierrita (ADEQ, 2006).

The mitigation action is described in the Mitigation Plan submitted to ADEQ in 2013 (Clear Creek Associates, 2013). The mitigation action consists of the operation of a groundwater pumping and water reuse system to control the migration of the sulfate plume and prevent the average sulfate concentration at a drinking water supply from exceeding 250 milligrams per liter (mg/L) at the point of use if the sulfate originated from the STI. Groundwater monitoring for the mitigation action is conducted to track plume migration, monitor sulfate in drinking water supplies, and collect information relevant to wellfield operation. The objective of this mitigation performance review is to assess the effectiveness of the mitigation action based on operational and monitoring data collected during 2018, the fifth year of operation under the Mitigation Plan.

1.1 Background

Mitigation Order on Consent No. P-50-06 was established in 2006 to provide for the mitigation of drinking water supplies if they are affected by sulfate at concentrations greater than 250 mg/L due to the STI. The Mitigation Order required Sierrita to characterize the extent of sulfate in groundwater and to develop a mitigation plan to practically and cost effectively provide a drinking water supply to the owner/operator of an existing drinking water supply impacted by sulfate attributable to the STI.

Existing drinking water supplies in the vicinity of the STI are currently not affected by sulfate in excess of 250 mg/L. The objective of the mitigation action is to protect existing drinking water supplies in the vicinity of the plume by controlling future plume migration so that sulfate concentrations do not exceed 250 mg/L.

In October 2008, Sierrita submitted a Feasibility Study to ADEQ that recommended a mitigation action of pumping sulfate-affected groundwater in the vicinity of the STI to control additional downgradient movement of the plume and, over time, to reduce the extent of the plume (Hydro Geo Chem, Inc., 2008). The Feasibility Study reported a conceptual design for the mitigation action. The conceptual design was based on simulations using a numerical model for groundwater flow and sulfate transport to predict the future migration of the plume under the groundwater pumping assumptions of the mitigation action.

ADEQ approved the recommended mitigation action in March 2009 and requested a mitigation plan (ADEQ, 2009). Sierrita submitted a Mitigation Plan in May 2009, but ADEQ deferred its finalization because it contained contingencies related to the outcomes of land acquisition, construction permitting, and other activities required to implement the mitigation action (Sierrita, 2010). Sierrita began implementing the mitigation action in 2009, and completed the land acquisition, permitting, design, and construction of the additional pumping and pipeline facilities required for the mitigation action at the end of 2013. The Mitigation Plan was revised based on the constructed wellfield and submitted to ADEQ in December 2013.

The Mitigation Plan describes the process Sierrita is following to implement the mitigation action; including its operation, monitoring, evaluation, adaptation, termination, and reporting. Groundwater pumping under the specifications of the Mitigation Plan began in January 2014. Also in 2014, ADEQ provided Sierrita with recommendations for the Mitigation Plan (ADEQ 2014). Sierrita responded to ADEQ's recommendations (Sierrita, 2015) and ADEQ approved the Mitigation Plan in 2015 (ADEQ, 2015).

1.2 Mitigation Action Objective

The mitigation action objective defined in the Mitigation Order is to “practically and cost effectively provide a drinking water supply that meets applicable standards and with sulfate concentrations less than 250 mg/L to the owner/operator of an existing drinking water supply determined...to have an average sulfate concentration in excess of 250 mg/L...as a result of the sulfate plume”. The Feasibility Study defines the sulfate plume as consisting of the horizontal and vertical extent of groundwater with sulfate concentrations greater than 250 mg/L originating from the STI. The mitigation action is designed to accomplish the mitigation action objective through the use of groundwater pumping to prevent the plume from migrating to existing drinking water supply wells. The spatial extent of the plume and the concentration of sulfate in drinking water supply wells are discussed in Section 3.2.1.

1.3 Role and Scope of the Mitigation Performance Review

The Mitigation Plan identifies the role of the mitigation performance reviews as the assessment of whether the mitigation action is performing as expected with respect to the mitigation action objective and numerical model predictions. The purpose of the mitigation performance review is to critically evaluate the operational and groundwater monitoring data collected for the mitigation action with respect to the observed plume behavior, mitigation action objective, and predicted plume migration. The mitigation performance review may recommend modification of the mitigation action (i.e., increase, decrease, or relocation of groundwater pumping, or termination of pumping) if

it is determined through analysis of the operational and monitoring data that a modification is needed to meet the mitigation action objective.

The mitigation performance review for 2018 uses mitigation facilities operations and groundwater monitoring data collected by Sierrita. The operations and groundwater monitoring data include:

- Pumping data for individual wells and the entire wellfield system
- Water quality data for drinking water supply wells and sentinel wells located between the plume and the drinking supply wells
- Water quality data from monitoring wells located within and outside of the plume
- Water level data from wells positioned to monitor drawdown in the vicinity of mitigation wellfields and regionally.

Mitigation facilities operations monitoring data are used to plan wellfield operation and maintenance (O&M) activities, and document groundwater pumping activities. The wellfield pumping data are compared to the pumping targets specified in the Mitigation Plan and used to update the numerical model. Water quality monitoring data are used to determine the extent of the plume, show the time trends of sulfate concentrations at various wells due to the mitigation action, document sulfate concentrations in drinking water supply wells, and calibrate the numerical model. Water level monitoring data are used to delineate groundwater potentiometric conditions in the vicinity of the plume and mitigation facilities, identify the capture zone created by mitigation pumping, and calibrate the numerical model.

The numerical model was updated with groundwater pumping information through 2018 for this mitigation performance review. The updated model incorporates the mitigation pumping for 2018, and the most recent available agricultural and water supply pumping. The updated model was used to simulate the 2018 capture zone of the mitigation wellfield, as discussed in Section 4.4.

The Mitigation Plan specifies that mitigation performance reviews are to be conducted and submitted to ADEQ annually for the first five years after full commissioning of the mitigation facilities and every five years thereafter. This mitigation performance review for 2018 is the fifth annual performance review submitted since the startup of groundwater pumping under the Mitigation Plan¹ in January 2014. The next performance review report required under the Mitigation Plan will be the performance review for 2023 which is due in April 2024. The adaptive management process described in Section 4.1 of the Mitigation Plan would be used in the event that the mitigation

¹ Performance review reports have been submitted to ADEQ for 2014, 2015, 2016, and 2017 (Clear Creek Associates, 2015, 2016, 2017, and 2018a).

performance review indicates that the mitigation action objective is not being met or a significant modification of the mitigation action is needed.

2.0 GROUNDWATER PUMPING AND WATER MANAGEMENT FOR THE MITIGATION ACTION

2.1 Groundwater Pumping

The Mitigation Plan specifies groundwater pumping rates at four groups of extraction wells: interceptor wells (IW), focused feasibility study (FFS) wells, plume stabilization (PS) wells, and mass capture (MC) wells. Figure 2 shows the locations of the active groundwater extraction wells, pipelines, and pumping facilities operated for the mitigation action.

As described in the Feasibility Study and the Mitigation Plan, there are different pumping objectives for groundwater extraction at the various well groups. The IW and FFS wells are pumped primarily for source control to capture seepage from the STI before it migrates to the regional aquifer. The PS wells at the northern edge of the plume are pumped in conjunction with the IW and FFS wells for the purpose of plume stabilization to control downgradient movement of the plume. The MC wells are pumped primarily to reduce the plume extent by extracting sulfate mass, although pumping the MC wells also contributes to plume stabilization. Although there are different objectives attributed to individual well groups, the objectives are accomplished by the combined pumping of all the wells.

The Mitigation Plan identifies two sets of pumping rates for the mitigation action: “target” groundwater pumping rates for Alternative 3, the recommended alternative (Section 2.1.1) and performance goal pumping rates (Section 2.1.2). The target pumping rates are meant to accomplish the source control, plume stabilization, and plume reduction objectives of Alternative 3 of the Feasibility Study. Performance goal pumping rates are meant to accomplish the source control and plume stabilization objectives only.

2.1.1 Target Pumping Rates

The groundwater flow and sulfate transport model was used to identify the target pumping rates to meet the source control, plume stabilization, and plume reduction pumping objectives of the mitigation action (Clear Creek Associates, 2014). The target pumping rates are listed in Table 1. To accomplish plume reduction, the target pumping rates at the FFS and MC wells are greater than the rates needed for the source control and plume stabilization objectives only.

Table 1 in this report has been modified from the specifications of the Mitigation Plan by the removal of IW-5A and the allocation of its pumping to IW-29. IW-5A, in the southern portion of the IW wellfield, was a poor producer that had a performance goal of 40 gpm. The modifications to Table 1 were made because IW-5A was taken out of service in 2018 as recommended in the mitigation performance review for 2017 (Clear Creek Associates, 2018a) and the pumping was reallocated to

IW-29 to maintain the total pumpage of the target rates. IW-29 did not exist at the time the target pumping rates were developed.

The numerical model was used to simulate future plume migration under the target pumping rates. The results of the simulation were included in the Mitigation Plan and are shown on Figure 3. The simulation results predict that the areal extent of the plume would decrease over time and that the sulfate plume would not reach public or private drinking water supply wells.

2.1.2 Performance Goal Pumping Rates

Table 2 lists performance goal pumping rates in the Mitigation Plan. Performance goal pumping rates accomplish the source control and plume stabilization objectives, but not the plume reduction objective. The performance goal pumping rates would accomplish the mitigation action objective by preventing the plume from migrating to drinking water supplies, but would not reduce the extent of the plume over time. The performance goal pumping rates were determined using the numerical model to iteratively simulate various groundwater pumping schemes and identify the minimum extraction rates needed for source control and plume stabilization (Hydro Geo Chem, Inc. and Clear Creek Associates, 2010, Clear Creek Associates, 2014).

Table 2 in this report has been modified from the specifications of the Mitigation Plan by the removal of IW-5A and the allocation of its pumping to IW-29. The modifications to Table 2 were made because IW-5A was taken out of service in 2018 as recommended in the mitigation performance review for 2017 (Clear Creek Associates, 1918a) and the pumping was reallocated to IW-29 to maintain the total pumpage of the performance goal rates. IW-29 did not exist at the time the performance goal pumping rates were developed.

2.1.3 Considerations for Target and Performance Goal Pumping Rates

The target and performance goal pumping rates are initial estimates that were made prior to the start of Mitigation Plan pumping. It is important to understand that the target and performance goal pumping rates are not unique in that there can be different combinations of pumping locations and rates that accomplish the mitigation action objective.

Periodic assessment of the target and performance goal pumping rates is needed for several reasons. First, it is expected that additional calibration of the hydraulic properties in the numerical model will occur as monitoring activities document the water level response of the aquifer to mitigation pumping. Pumping may be found to be more or less effective than predicted as the aquifer response develops and the model is refined over time through recalibration. Changes to the model as part of ongoing calibration efforts may influence the degree to which the initial pumping specifications are determined to be appropriate or necessary to accomplish the mitigation action objective. Second, the extraction wells will change over time. For example, well IW-29 is a mitigation extraction well

installed after the pumping rates in the Mitigation Plan were developed. Thus, the Mitigation Plan has no pumping specification for IW-29 although the well has been pumping since September 2014.

Additionally, well maintenance factors may require changes in the locations of extraction wells over time as new wells are installed or the pumping rates at existing wells decline due to inefficiency as wells age. Changes in the location and pumping rate of wells over time can influence wellfield capture and need to be accounted for in setting target and performance goal pumping rates. Hence, the target and performance goal pumping rates are expected to vary over time as the mitigation action progresses.

2.2 Water Management

The sulfate-affected groundwater pumped under the Mitigation Plan is used for mining processes. The use of sulfate-affected groundwater allows Sierrita to reduce the amount of fresh groundwater pumped at the Canoa wellfield south of Green Valley. After mine closure, Sierrita may be able to manage sulfate-affected groundwater through discharge to an inactive open pit excavation or through treatment of some or all of the groundwater, as described by the Feasibility Study (Hydro Geo Chem, Inc., 2008).

3.0 MITIGATION FACILITIES OPERATION AND GROUNDWATER MONITORING RESULTS FOR 2018

This section describes the groundwater pumping and groundwater monitoring during 2018.

3.1 Mitigation Facilities Operation

Groundwater pumping under the Mitigation Plan is a continuous operation. Sierrita uses mine personnel and contractors to operate, monitor, and maintain the wells, pumps, pipelines, and other facilities needed for the Mitigation Plan. Wellfield O&M is conducted pursuant to the Sulfate Mitigation Action Well Field Operation and Maintenance Plan submitted to ADEQ (BasinWells Associates, 2013).

Groundwater pumping under the Mitigation Plan began in January 2014 with the startup of the FFS, PS, and MC extraction wells; and continued pumping at the IW wells. Wellfield operational and groundwater pumping data for 2018 are summarized in an annual report prepared by BasinWells Associates and submitted to ADEQ (BasinWells Associates, 2019). The total groundwater withdrawal under the Mitigation Plan in 2018 was approximately 14,646 acre feet, which was pumped from 31 wells. Table 3 lists the total gallons pumped and average groundwater pumping rate for extraction wells during 2018, and compares the 2018 rates to the target and performance goal pumping rates of the Mitigation Plan.

The 2018 average wellfield pumping rate was 9,080 gpm, which is about 63% of the target pumping rate of 14,330 gpm and 85% of the performance goal rate of 10,643 gpm. The IW, FFS, PS, and MC wells pumped at 49%, 55%, 85%, and 71%, respectively, of their target pumping rates, and 49%, 139%, 85%, and 148%, of their respective performance goal pumping rates.

BasinWells Associates (2019) reported run time percentages for the mitigation pumping wells. The mitigation wellfield had an average run time of 47% considering all the wells on Table 3, whether or not they pumped in 2018. Well run times for the IW wells averaged 33% and ranged from 1.3% to 82.1% for IW wells with pumpage in 2018. The 2018 run times for the FFS, PS, and MC wells averaged 60%, 72%, and 84%, respectively.

The wellfield-wide average run time is skewed low by certain IW wells that pump at low rates (less than 100 gpm) and have poor operational efficiency, wells that were offline for rehabilitation, and a system wide shutdown needed for a construction project. Wells IW-6A and IW-24 are low producing IW wells that were inoperative throughout 2018. Multi-month outages were experienced at wells IW-1, IW-2A, IW-3A, IW-12, IW-22, PS-1, PS-2, FFS-5, and FFS-6 due to well and pump maintenance activities in 2018. BasinWells Associates (2019) reports that the shutdown of wells

occurred due to well and transmission line maintenance, non-pumping monitoring activities, and storage capacity limitations at the Mill Reservoir. Additionally, pumping at the mitigation wellfield was suspended for several weeks in December to relocate the wellfield pipeline for the completion of a construction project at the base of the STI. The suspension of pumping in December was a one-time event. Considering the run time percentages of the operating wells only indicates a 56% average run time for the wells which produced 100% of the pumpage in 2018.

Capture zone analysis and numerical modeling are used to examine the sulfate plume migration under current and future expected conditions, as discussed in Sections 4 and 5. The capture zone analysis uses observed and simulated water levels to evaluate the extent of plume control by pumping. The results of the numerical modeling are used to evaluate whether the differences between the actual mitigation pumping rates and the target and performance goal pumping rates are significant with respect to attainment of the mitigation action objective and the predicted future migration of the plume.

3.2 Results of Groundwater Monitoring

Sierrita conducts groundwater monitoring pursuant to the Post-Implementation Groundwater Monitoring Plan in the Mitigation Plan. Table 4 is the schedule for post-implementation groundwater monitoring in 2017. Well locations are shown on Figure 4.

Post-implementation groundwater monitoring includes quarterly water quality sampling for sulfate at sentinel and drinking water supply wells, an annual site-wide sampling for sulfate and water levels in the second quarter of the year, and water level measurements in the fourth quarter of the year to allow development of water level contour maps for both the second and fourth quarters. Data collected for groundwater monitoring are reported to ADEQ semiannually. The results of groundwater monitoring in the first through third quarters of 2018 are contained in two reports submitted to ADEQ (Clear Creek Associates, 2018b and 2018c). Groundwater monitoring data for the fourth quarter 2018 will be submitted in the semiannual report due May 31, 2019. The methods of groundwater monitoring are described in the semiannual groundwater monitoring reports.

3.2.1 Sulfate Concentration Data

Groundwater samples are collected to measure sulfate concentrations over time. The sulfate concentration data are used to delineate the sulfate plume, document water quality trends in the aquifer, and determine sulfate concentrations at and in the vicinity of drinking water supply wells. The sulfate concentration data are also used to calibrate the sulfate transport model. Sulfate determinations are made on a dissolved basis. Sulfate concentration data collected under the Mitigation Order are compiled in Appendix A. Figure A.1 in Appendix A is a map showing all sites for which data are reported in Appendix A.

3.2.1.1 Plume Extent

The geographic extent of the plume is determined by the extent of sulfate concentrations exceeding 250 mg/L. Figures 5 and 6 are sulfate concentration maps for the second and fourth quarters of 2018, respectively. The second quarter 2018 sulfate concentration map is based on a greater number of measurements and a larger geographic extent than the fourth quarter map. The fourth quarter map has fewer data because it focuses on measurements showing the edge of the plume only.

Comparison of the sulfate concentration data for the second quarter of 2018 with data previously collected for the Mitigation Order indicates that there has been no 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. Figure 7 shows that sulfate concentrations in MO-2007-1B and MO-2007-1C at the north end of the plume increased above 250 mg/L between 2009 and 2011; indicating downgradient migration of the plume. The sulfate concentration at MO-2007-1B remains greater than 250 mg/L. Sulfate concentrations in samples from MO-2007-1C vary considerably between 2011 and 2018, with concentrations of 29.6 mg/L and 317 mg/L measured in the second and fourth quarters of 2018, respectively.

The Mitigation Plan groundwater pumping initiated in 2014 is designed to limit the northward migration of sulfate concentrations in excess of 250 mg/L. The sulfate results for sampling at MW-2016-5A, MW-2016-5B, and MW-2016-06 define the northern limit of the plume (Figures 5 and 6). The results for the MW-2016 wells are discussed further in Section 3.2.1.4.

The sulfate concentration in monitoring well M-10 increased from 154 mg/L to 297 mg/L between the second and fourth quarters of 2018. The fourth quarter concentration is the highest measured at M-10 which is at the north end of the plume adjacent to a tailing impoundment at the Sierrita Twin Buttes mine. Concentrations of sulfate in nearby wells M-8 and MW-2016-6 between the plume and M-10 are less than 250 mg/L, suggesting that the concentration at M-10 may be an anomaly unrelated to the sulfate plume. Ongoing groundwater monitoring will be used determine whether the sulfate concentration at M-10 remains greater than 250 mg/L.

3.2.1.2 Drinking Water Supply and Sentinel Wells

Groundwater monitoring includes quarterly water quality sampling at drinking water supply wells and the sentinel wells positioned between the plume and drinking water supply wells (Figure 4). Figures 8 and 9 show sulfate concentrations from 2006 through 2018 at drinking water supply and sentinel wells, respectively. Sulfate concentrations at drinking water supply wells in 2018 were all less than 78 mg/L. Concentrations in the drinking water supply wells are steady or declining over time, except at CW-6. Sulfate concentrations at CW-6 increased to approximately 92 mg/L between 2010 and mid-2013, ranged between 69 mg/L and 95 mg/L from mid-2013 to early 2016, and declined from 93 mg/L to 65 mg/L from 2016 through 2018.

Sentinel wells are wells positioned between the plume and drinking water supply wells to detect the plume before it could migrate to a drinking water supply well. Sulfate concentrations at sentinel wells were all less than 103 mg/L in 2018. Sulfate concentrations in MO-2007-4C and MO-2009-1 increased in 2018, but were in the range of historical concentrations for those wells.

The sulfate concentrations at drinking water supply and sentinel wells were less than the 250 mg/L mitigation action objective and the 135 mg/L action level set in the Mitigation Plan. If exceeded, the action level triggers written notice to ADEQ and the supply owner/operator, more frequent groundwater monitoring, and, in the case of a drinking water supply well, development of a mitigation plan for the well. The sulfate concentration data for drinking water supply wells and sentinel wells indicate that the mitigation action objective is being met.

3.2.1.3 Sulfate Concentrations in Mitigation Extraction Wells

Sulfate concentration data for the mitigation extraction wells characterize conditions in the plume, which is where most extraction wells are located. Appendix B contains graphs of the sulfate concentration since 2006 in mitigation extraction wells identified for pumping under the Mitigation Plan.

In general, sulfate concentrations at extraction wells are greater than 1,000 mg/L, less than 2,000 mg/L, and vary in magnitude depending on their position relative to the STI. Extraction wells near the STI tend to have higher concentrations than those farther from the STI (Figures 5 and 6).

The graphs in Appendix B show that sulfate concentrations in approximately half of the extraction wells do not have a persistent trend over time, although concentrations at an individual well can vary over a range of 400 mg/L or more in a period of several years. The apparent concentration trends in extraction wells exhibiting trends are summarized below.

Wells IW-1, IW-2A, IW-3A, IW-4, IW-8, IW-9, IW-10, IW-11, IW-22, IW-23, IW-24, IW-25, IW-26, IW-27, IW-28, and IW-29 in the southern part of the IW wellfield have increased in sulfate to different degrees based on linear trendlines through the sulfate concentration data. Most of the wells southern IW wells have increased in concentration since 2006 at rates ranging from 10 mg/L per year to 40 mg/L per year. Exceptions are IW-1 and IW-25 which increased at rates of about 84 mg/L per year and 250 mg/L per year, respectively. It may be that the increases in the southern IW wells accompanied the 2014 change in pumping for the Mitigation Plan, especially the implementation of pumping at the FFS wells and IW-25 through IW-29 which tends to pull groundwater with high sulfate concentrations eastward from the east side of the STI, thereby reducing dilution at the IW wells at the toe of the STI.

Wells IW-6A, IW-12, IW-14, IW-15, IW-19, and IW-21 in the northern half of the IW wellfield either had no clear trend (IW-6A and IW-26) in sulfate concentrations or increased at rates between

15 mg/L per year and 25 mg/L per year. Thus, the northern portion of the IW wellfield had lower rates of increase or no increase compared to the southern half of the wellfield.

The FFS wells all exhibit increasing sulfate concentrations over time, with rates of increase ranging from about 14 mg/L per year to 55 mg/L per year. These wells tend to capture affected groundwater that bypasses the northern IW wells.

Sulfate concentrations at the MC wells have been variable. MC-1 has been steady over time, MC-2 and MC-3 decreased in concentration at rates of about 84 mg/L per year and 18 mg/L per year, respectively, and MC-4 increased at a rate of about 36 mg/L per year. The PS wells have been steady over time with the exception of PS-3 which decreased at an approximate rate of 22 mg/L year. The decreasing concentrations at some of the MC and PS wells may be due to the mitigation pumping which causes groundwater with low sulfate concentrations outside the plume to flow towards the extraction well system. Overall, the changes in sulfate concentrations at the extraction wells are minor and do not affect the containment strategy of the Mitigation Plan.

3.2.1.4 Sulfate Concentrations in Monitoring Wells Marginal to the Plume

Sulfate concentrations in wells outside of and marginal to the sulfate plume can be used to discern the plume migration. For example, an increase of sulfate to greater than 250 mg/L at a well outside the plume would be evidence of plume migration, if the sulfate were due to the STI.

The sentinel wells NP-2, MO-2007-3B, MO-2007-3C, MO-2007-4A, MO-2007-4B, MO-2007-4C, MO-2009-1, MO-2007-6A, and wells ESP-2 and ESP-3 monitor the east margin of the plume (Figures 5 and 6). Sulfate concentrations in most sentinel wells have declined since 2013, as shown on Figure 9, although increases to prior high concentrations occurred in MO-2007-4C and MO-2009-1 in 2018. Sulfate concentrations in ESP-2 and ESP-3 were less than 40 mg/L sulfate in 2018 and have been relatively steady since 2006 (Figure 10), indicating no measurable eastward movement by the sulfate plume at these wells. Well ESP-4, which is in the plume, is also shown on Figure 10. The sulfate concentration in samples from ESP-4 declined from a high of 619 mg/L in November 2012 to between 302 mg/L and 332 mg/L in 2018, probably due to groundwater pumping under the Mitigation Plan.

Northward movement of the plume prior to the 2014 start of Mitigation Plan pumping is indicated by the increased sulfate concentrations at MO-2007-1B and MO-2007-1C starting in 2009 and 2010, respectively (Figure 7). The sulfate concentrations at MO-2007-1B have remained elevated above 250 mg/L, but those at MO-2007-1C declined below 250 mg/L from late 2013 through 2015. In 2018, the sulfate concentration in MO-2007-1C ranged from 29.6 mg/L to 317 mg/L.

Wells MW-2016-5A, MW-2016-5B, and MW-2016-06 were installed in 2016 to delineate the northern plume edge. Sulfate concentrations at MW-2016-5A, MW-2016-5B, and MW-2016-06 are

shown on Figure 11. MW-2016-5A and MW-2016-5B have had low concentrations of sulfate (less than 65 mg/L) from 2016 through 2018, indicating these wells are outside the plume. Although the sulfate concentration in MW-2016-6 measured in the initial sample collected in August 2016 was 490 mg/L, the concentrations in the subsequent nine samplings ranged from 61 mg/L to 238 mg/L, indicating that this well is outside of the sulfate plume. In 2018 the sulfate concentration in samples of MO-2016-6 increased from 61 mg/L to 238 mg/L. The MW-2016 series wells define the northern extent of the plume based on the baseline monitoring results.

The sulfate concentration at M-10 on the north end of the plume increased above 250 mg/L in 2018, as discussed in Section 3.2.1.1. The increase at M-10 is not considered to represent northward movement of the plume because lower concentrations of sulfate are measured in nearby wells positioned between the plume and M-10.

3.2.2 Water Level Data

Water level measurements document potentiometric conditions, which determine hydraulic gradients and groundwater flow directions. These data are also used for capture zone analysis, evaluation of capture effectiveness, and calibration of the groundwater flow model. Water level measurements collected for the Mitigation Order are listed in Appendix C. The locations of sites for which data are reported in Appendix C are shown on Figure A.1 in Appendix A.

Two types of water level data are available: static and dynamic. Static water level measurements are collected from non-pumping wells and represent the approximate potentiometric head of the aquifer. Dynamic water level measurements are measurements collected at operating pumping wells. Dynamic water levels can be influenced by water table drawdown due to pumping and additional head losses due to well efficiency. The dynamic water levels reported here have not been corrected for well efficiency or other head losses. Nonetheless, dynamic water level measurements provide localized information on potentiometric conditions in pumping wells in the active portion of the wellfield, where the water level is being lowered to capture the sulfate plume.

Water levels measured at wells that have been pumping a long time, such as the drinking water supply wells, may have a component of residual drawdown even though they were inactive when the water level was measured. Residual drawdown occurs when the water level in a well has not yet returned to its static level after pumping stops. For example, a well pumped for a week and shut down for 4 hours prior to water level measurement may not have attained its full static level. In practice, the degree of water level recovery in a well after pumping is a site-specific characteristic depending on the hydraulic properties of the aquifer and the well. Some degree of residual drawdown may be possible in measurements made at inactive mitigation pumping wells and drinking water supply wells if they were previously pumped for long periods.

3.2.2.1 Water Elevation Maps

Figures 12 and 13 are hand-contoured water elevation maps for the second and fourth quarters of 2018, respectively. Both static and dynamic water levels are posted on the maps to show the drawdown associated with the pumping wells. Figure 14 is a water elevation map for the second quarter of 2013, illustrating conditions prior to the start of Mitigation Plan pumping. Comparison of Figures 12, 13, and 14 shows changes in the water elevation surface since the start of pumping under the Mitigation Plan.

In 2013, prior to the start of Mitigation Plan pumping, groundwater elevation contours indicated that groundwater flow² was east and northeast from the east end of the STI northeasterly to Green Valley where the groundwater flow became northerly. Prior to the Mitigation Plan, pumping-caused groundwater elevation depressions occurred at the IW wells along the east end of the STI due to the extraction of seepage-bearing groundwater from the aquifer, and groundwater that bypassed the IW wells flowed toward Green Valley. The start of Mitigation Plan pumping in 2014 caused water elevation depressions to develop at the FFS, PS, and MC wells. The water elevation depressions occur due to the constructive interference of overlapping drawdown cones associated with the extraction wells. The pumping-induced depressions at the FFS, PS, and MC wells caused the orientation of the water elevation contours to change from the east-west orientation of the 2013 pre-Mitigation Plan condition to a northeast-southwest orientation after implementation of the Mitigation Plan.

The groundwater elevation data since 2014 indicate that the groundwater flow direction in the vicinity of the FFS, PS, and MC wells is toward the water elevation depressions at the FFS, PS, and MC wells. The change in flow toward the extraction wells creates a zone of groundwater capture around the extraction wells in which sulfate plume water flows to the extraction wells and is pumped from the aquifer. A capture zone analysis based on the groundwater flow directions indicated by the water elevation maps is discussed in Section 4.3.

3.2.2.2 Hydrographs

Hydrographs for monitoring wells in the vicinity of the plume illustrate the dynamic nature of water levels as the aquifer responds to pumping under the Mitigation Plan. The water level declines in the vicinity of the extraction wells are a consequence of the pumping needed to establish hydraulic conditions that capture plume water and extract sulfate mass from the aquifer. Water levels at

² Groundwater flow in a homogeneous, isotropic aquifer is perpendicular to equipotential lines (water elevation contours) and in the direction of lower groundwater elevation.

monitoring wells are used to document the development of hydraulic conditions under the Mitigation Plan pumping.

Figure 15 shows hydrographs of groundwater elevation at the sentinel wells. The time series graphs show that water levels at these wells declined at rates ranging from 0.9 to 3.6 feet per year from 2007 to 2013. The rate of water level decline increased in 2014 at MO-2007-3B, MO-2007-3C, MO-2007-4A, MO-2007-4B, MO-2007-4C, MO-2009-1, and NP-2 due to the start of Mitigation Plan pumping. The rate of groundwater elevations decline increased at MO-2007-6A and MO-2007-6B starting in 2012 prior to the start of Mitigation Plan pumping, probably in response to a change in pumping at one or more of the nearby extraction wells. The increased rate of groundwater elevation decline was transient at MO-2007-4A, MO-2007-4B, MO-2007-4C, MO-2007-6A, MO-2007-6B, and MO-2009-1 as the water elevation at these wells stopped declining within one to three years after the start of Mitigation Plan pumping. The increased rate of groundwater level decline persists at MO-2007-3B, MO-2007-3C, and NP-2. The patterns of groundwater elevation changes related to Mitigation Plan pumping are described more fully below. An annual cycle of groundwater elevation change is also evident from the sentinel well data, although the pattern is subtle at the graph scale of Figure 15. The annual cycle consists of the tendency for groundwater elevations to be slightly higher in the first and second quarters of the year than they are during the third and fourth quarters. The annual pattern is probably due to seasonal variations in groundwater recharge and groundwater pumping by agricultural and municipal users in the Green Valley area.

Appendix D contains hydrographs for the wells that are tracked to monitor the effects of mitigation pumping, including the sentinel wells (Figure 15). The wells cover a large geographic area around the mitigation order extraction wells, as shown on Figure 16. The date range on the hydrographs is from 2006 through 2018 to show conditions before and after the January 2014 start of Mitigation Plan pumping.

The hydrographs in Appendix D display several patterns. Wells MH-25A, MH-25B, MH-25C, MH-26B, MH-26C, MO-2007-1A, MO-2007-1B, MO-2007-1C, MO-2007-2, MO-2007-3B, MO-2007-3C, MO-2007-4A, MO-2007-4B, MO-2007-4C, CW-7, CW-8, ESP-2, M-8, and NP-2 in the northern portion of the mitigation wellfield (from approximately FFS-3 and MC-1 northward) showed immediate drawdown effects due to the start of Mitigation Plan pumping and have ongoing drawdown effects to various degrees. Hydrographs for these wells display two line segments: a pre-2014 segment with a negative slope of about 0.9 to 1.8 feet/year and a post-2014 segment with a negative slope of approximately 15 to 20 feet/year starting in 2014. These wells are close to the FFS, PS and MC extraction wells and the increase in slope in 2014 is due to drawdown that occurred rapidly at the start of Mitigation Plan pumping. There are two hydrograph patterns within this northern group of wells. One pattern is observed in the northern-most wells, MO-2007-1A, MO-2007-1B, MO-2007-1C, MO-2007-3B, MO-2007-3C, CW-7, M-8, and NP-2, and consists of an

ongoing straight line decline since 2014. The second hydrograph pattern is shown by wells MH-25A, MH-25B, MH-25C, MH-26B, MH-26C, MO-2007-2, MO-2007-4A, MO-2007-4B, MO-2007-4C, CW-8, and ESP-2. The second pattern consists of a flattening of the post-2014 negative between 2015 and 2018, indicating a decrease in the rate of groundwater drawdown related to the startup of the Mitigation Plan pumping.

Wells in the southern portion of the mitigation wellfield also show the effects of pumping, but water level patterns are more complicated than in the northern portion. CW-3, MH-3, MH-11, MH-28, MO-2007-5B, MO-2007-5C, and MO-2009-1 show a steepening of the water level decline in 2012 or 2013, prior to Mitigation Plan pumping, with the rate of decline increasing in 2014 or remaining constant. Wells MH-9, MH-14, MH-15E, MH-15W, MH-16E, and MH-16W near the STI show water level increases in 2014, as pumping shifted to other locations in the wellfield. MH-28, MH-29, MO-2007-6A, and MO-2007-6B are also near the STI, but didn't display a water level increase until 2016.

The water level hydrographs document the development and maintenance of the potentiometric field around the extraction well system. The various patterns displayed by the hydrographs are the result of the interplay between the pumping histories of the extraction wells, local hydraulic properties and aquifer boundaries, the distance of the monitoring wells from extraction wells, pre-existing water level decline patterns, and the superposition of overlapping drawdown cones around the pumping wells. The hydrograph data confirm that there is a high degree of hydraulic connectivity in the aquifer because the response to pumping is evident over a large area that encompasses the extent of the plume. This large area of influence is needed to establish hydraulic control over the migration of the plume.

4.0 CAPTURE ZONE ANALYSIS

The capture zone of the mitigation wellfield is the three dimensional region within which groundwater flows to the extraction well system where it is removed from the aquifer. Capture zone analysis consists of semi-quantitative and quantitative evaluations of field measurements and numerical groundwater flow modeling results to assess the degree of wellfield capture.

The capture zone analysis was conducted using the methods in the 2008 U.S. Environmental Protection Agency guidance document on evaluation of capture zones (U.S. Environmental Protection Agency [EPA], 2008), as requested by ADEQ (2009). EPA (2008) outlines the following steps for using multiple lines of evidence to develop a weight of evidence assessment of a capture zone:

- Step 1 - Review of site data, site conceptual model, and remedy objectives
- Step 2 - Define site-specific target capture zone
- Step 3 - Interpret water levels
- Step 4 - Perform calculations
- Step 5 - Evaluate concentration trends
- Step 6 – Interpret actual capture based on Steps 1 to 5, compare to target capture zone, assess uncertainties and data gaps.

4.1 Site Data Review, Site Conceptual Model, and Mitigation Action Objective

Site data relevant to Step 1 of the capture zone analysis, including descriptions of the hydrogeology, hydraulic properties, water quality, and site conceptual model, are contained in the Aquifer Characterization Report (Hydro Geo Chem, Inc., 2009) and Feasibility Study (Hydro Geo Chem, Inc., 2008). Section 3 of this report describes the operational, water level, and sulfate concentration data for current conditions.

The site conceptual model described in the Aquifer Characterization Report has not changed over time. The source of sulfate in the plume is considered to be seepage from the STI to the basin fill beneath the tailing impoundment. The sulfate plume is formed as the sulfate-affected seepage mixes with groundwater in the basin fill and migrates east and north from the STI. The plume is contained within the basin fill aquifer, which is underlain by bedrock with an average hydraulic conductivity that is three orders of magnitude lower than the average hydraulic conductivity of the basin fill. Groundwater pumping to capture the plume is focused in the basin fill aquifer close to the STI and

along the axis of the plume (Figure 2). The bedrock aquifer is not targeted for groundwater pumping because its low permeability limits sulfate migration into the bedrock.

The hydraulic properties of the basin fill have been determined through aquifer testing as described in the Aquifer Characterization Report. The water elevation configuration and extent of sulfate-affected groundwater in the basin fill are well documented by the groundwater monitoring conducted since 2007 for the Mitigation Order (Section 3.2). The water elevation configuration did not change significantly between the start of Mitigation Order monitoring in 2007 and the start of Mitigation Plan pumping in January 2014, as described in Section 3.2.2.1. The stability of the water elevation configuration indicates that the basin fill aquifer in the vicinity of the plume is not subject to transient phenomena, such as seasonal changes in groundwater flow direction that can complicate pumping-based plume control actions. Since January 2014 the water elevation configuration has changed in response to Mitigation Plan pumping, as described in Section 3.2.2.1.

The mitigation action objective is identified in Section 1.2. The Mitigation Plan identifies specific action levels for sulfate concentrations at drinking water supply wells and sentinel wells, in the contingency that the plume migrates in an unexpected way. The drinking water supply and sentinel wells in the vicinity of the plume are monitored quarterly to determine concentrations with respect to action levels.

4.2 Target Capture Zone

The site-specific target capture zone represents the zone of groundwater to be captured by the mitigation wellfield to prevent substantive downgradient migration of the plume and meet the mitigation action objective. The 250 mg/L sulfate concentration contour for the fourth quarter of 2018, which defines the edge of the plume, is selected as a preliminary target capture zone for Step 2 of the capture zone analysis. The target capture zone extends from the water table to the base of the basin fill aquifer because elevated sulfate within the plume occurs across the entire saturated thickness of the basin fill, although some dilute zones are known to occur at the top of the basin fill aquifer (Hydro Geo Chem, Inc., 2009).

4.3 Capture Zone Indicated by Water Elevation Mapping

The approach used to interpret water level data for Step 3 of the capture zone analysis is to evaluate groundwater flow directions based on the water elevation maps. EPA (2008) identifies water elevation mapping and flowline interpretation as a method of water level interpretation for capture zone assessment. Groundwater flowlines are interpreted as being orthogonal to water elevation contours and in the direction of lower potential (i.e., groundwater flows from higher to lower groundwater elevations). The water elevation depressions that develop around pumping wells are

zones of internal flow, or hydraulic sinks, from which groundwater is extracted from the aquifer. Water elevation mapping is used to identify hydraulic sinks and flowline interpretation is used to evaluate the extent of capture developed by the hydraulic sinks created by mitigation pumping.

Figures 17, 18, and 19 show hand-drawn groundwater flowlines and capture zones interpreted for the second and fourth quarters of 2018 and the second quarter of 2013, respectively, based on previously presented water elevation maps. The capture zones are interpreted based on the groundwater flow directions.

Comparison of Figures 17 and 18 with Figure 19 indicates a significant change in groundwater flow directions since the start of Mitigation Plan pumping in 2014. In 2013, groundwater flowing from the portion of the aquifer immediately downgradient of the IW wells flowed easterly and then northerly into the regional aquifer (Figure 19). The 2013 capture zones of the IW wells were narrow zones around the northern IW wells and broader zones around the southern IW wells. In 2014, the initiation of groundwater pumping under the Mitigation Plan caused groundwater levels to decline in the vicinity of the FFS, PS, and MC wells, and created depressions that act hydraulic sinks. The hydraulic sinks around the FFS, PS, and MC wells operate in conjunction with the IW wells to create the total capture due to groundwater pumping. The groundwater flow pattern that developed in 2014 has been maintained through 2018 by pumping conducted for the Mitigation Plan (Figures 17 and 18). The groundwater flow pattern in 2018 is one in which groundwater that is outside the capture zones of the IW wells flows to and is captured by the hydraulic sinks around the FFS, PS, and MC extraction wells. The capture zones of the IW, FFS, PS, and MC wells coalesce to create a total wellfield capture zone interpreted as extending east from the STI to Green Valley and north to the PS wells near Duval Mine Road.

EPA (2008) points out that because water elevation contour maps require interpolation of water elevations at points between measurements they can be susceptible to bias, whether they are hand drawn or drawn based on interpolation algorithms. EPA (2008) recommends creating water elevation maps by multiple methods to check for potential bias. The fourth quarter 2018 water elevation data were analyzed with Kriging software to develop an independent water elevation map for comparison with the hand contoured map. Kriging is a geostatistical interpolation technique commonly applied for spatial analysis of correlated hydrogeologic phenomena (e.g., water level, hydraulic property, and hydrochemistry data).

Figure 20 shows a groundwater elevation map for the fourth quarter of 2018 as estimated by kriging. Also on Figure 20 are inferred groundwater flowlines and the interpreted wellfield capture zone. The kriging analysis omitted data for S-1 because the water level was low due to dynamic conditions. As this well is on the south edge of the monitoring network, there were no data to the south to constrain the kriging interpolation and the resulting map showed an unrealistic area of influence for the measurement at S-1.

The kriged water elevation contours show a similar pattern as the hand drawn contours (Figure 18), although the two interpretations differ in detail, especially near extraction wells with dynamic water levels, where water levels change significantly over short distances. Overall, the groundwater flowlines and wellfield capture zone inferred from the Kriged and hand-contoured maps are similar. The similarity of the hand-drawn and Kriged maps supports the conclusion that the hand-drawn contours provide an objective interpretation. Section 4.6 compares the capture zone indicated by water level mapping to the target capture zone.

4.4 Capture Zone Indicated by Numerical Modeling

The complicated geometry of the mitigation wellfield precludes the use of simple analytical equations for Step 4 of the capture zone analysis. For this reason, a numerical simulation of the hydraulic head field created by pumping was used for the quantitative assessment of the capture zone. The numerical model for groundwater flow and sulfate transport was updated to simulate the capture zone for mitigation action pumping through 2018 as reported in Appendix E.

The numerical model reported by Clear Creek Associates (2014) was updated for this performance review with mitigation action and Canoa Ranch pumping through 2018. Regional (non-Sierrita) pumping, such as municipal and agricultural pumping, was updated through 2017 based on filings with Arizona Department of Water Resources (ADWR). The 2017 pumping rates for non-Sierrita pumping were carried forward to simulate pumping in 2018.

Recharge sources, such as seepage from the STI and recharge from wastewater treatment facilities, were updated based on available information. Sierrita conducted water balance modeling to estimate the STI seepage rates for 2016, 2017, and 2018 and provided the results to Clear Creek Associates. The Robson Ranch and Quail Creek recharge facility rates were updated through 2017 based on annual reports filed with ADWR and carried forward to simulate 2018.

Figure 21 shows the fourth quarter 2018 sulfate distribution simulated by the updated model. The simulated extent of the sulfate matches the observed extent well, although the model underestimates the eastern extent of the plume at the MO-2007-5B, MO-2007-5C, MW-2016-5A, and MO-2016-5B wells and slightly overestimates the eastern extent of the plume in the vicinity of ESP-1, ESP-2, ESP-3, and ESP-4.

The capture zone indicated by the updated numerical model for groundwater pumping through 2018 is shown on Figure 22. The capture zone is interpreted from gradient vector plots created with the predicted groundwater elevations through the end of 2018. Three capture zone outlines are shown on Figure 22 because slightly different capture zones are indicated for layers 1, 2, and 3 of the model. Section 4.6 compares the capture zone indicated by numerical modeling to the target capture zone.

4.5 Evaluation of Sulfate Concentration Trends

Step 5 of EPA's approach to capture zone evaluation is to use sulfate concentration data from outside the plume as a means of interpreting capture. The use of concentration trend data for wells outside the plume is based on the concept that sulfate concentrations should not increase above the mitigation action objective in wells downgradient of the target capture zone if the plume is not migrating. Additionally, sulfate concentrations could decrease in some wells depending on well position with respect to lower concentration water at the edge of the target capture zone. EPA (2008) states that one potential problem with using concentration data is that it may take years for concentrations to change because groundwater velocities are generally slow. The sulfate data for the drinking water supply and sentinel wells, and at wells ESP-2, ESP-3, MW-2016-5A, MW-2016-5B, and MW-2016-6 (Section 3.2) are used to evaluate sulfate concentration trends for Step 5 of the analysis because these wells are outside the target capture zone of the 250 mg/L sulfate concentration contour (Figures 5 and 6).

Drinking water and sentinel well sulfate concentrations are shown on Figures 8 and 9, respectively. Sulfate concentrations at the drinking water supply wells were steady or decreased slightly from 2013 through the fourth quarter of 2018 and have not shown increasing trends since the start of Mitigation Plan pumping. The sentinel wells all had sulfate concentrations less than 103 mg/L during 2018. As a group, the sentinel wells exhibit lower sulfate concentrations since the start of Mitigation Plan pumping. Two sentinel wells, MO-2007-4C and MO-2009-1, did increase in concentration in 2018 compared to concentrations since the start of Mitigation Plan pumping. The cause the increase is uncertain and the 2018 concentrations were similar to historical high concentrations for these wells. The persistence of the trend will be monitored as MO-2007-4C and MO-2009-1 are sampled quarterly.

Figure 10 shows sulfate over time at wells ESP-2, ESP-3, and ESP-4. These wells lie along the east edge of the plume (Figures 5 and 6). Sulfate concentrations at ESP-2 and ESP-3 have been steady at less than 40 mg/L since 2006. ESP-4 has been within the plume since 2006, but is close to the plume edge. ESP-4 declined in sulfate concentrations from a maximum of approximately 619 mg/L in 2012 to concentrations of 302 mg/L and 332 mg/L measured in samples collected during the second and fourth quarters of 2017, respectively.

MW-2016-5A, MW-2016-5B, and MW-2016-6 delimit the northern extent of the plume and its apparent leading edge. Sulfate concentrations at these wells are shown on Figure 11. The sulfate concentrations at MW-2016-5A and MW-2016-5B have been steady in a range between 21 mg/L and 65 mg/L since 2016. The sulfate concentrations at MW-2016-6 have been less than 250 mg/L except for the initial sampling. In 2018, the sulfate concentration at MW-2016-6 increased from a low of 61 mg/L to 238 mg/L. The sulfate trend at MW-2016-6 is monitored by sampled semiannually sampling.

Three wells on the margin of the plume, MO-2007-4C, MO-2009-1, and MW-2016-6 showed increased sulfate in 2018, although the higher concentrations in those wells were at levels of previous historical measurements and the concentrations were all less than the mitigation action objective of 250 mg/L. The sulfate concentrations at MO-2007-4C, MO-2009-1, and MW-2016-6 will be tracked by groundwater monitoring to determine the significance of the 2018 observations. Other wells on the margin of the plume (i.e., drinking water supply wells, the majority of sentinel wells, the ESP, and the MW-2016-5 wells) do not show increasing sulfate concentrations suggestive of an advancing plume and the sulfate concentration at ESP-4 decreased since 2013. These data are interpreted as evidence there is negligible plume migration. The lack of eastward and northward plume migration is consistent with the capture zone interpreted from water elevation maps and numerical modeling results (Sections 4.2 and 4.3).

4.6 Comparison of Wellfield Capture Zone to Target Capture Zone

Step 6 of the capture analysis is to compare the target capture zone to the wellfield capture zone determined from site monitoring data. The target capture zone is the 250 mg/L sulfate concentration contour that defines the sulfate plume. Figures 23 and 24 compare the target capture zone to the fourth quarter 2018 wellfield capture zones for the hand contoured water level data and the numerical model simulation results, respectively.

The wellfield capture zone interpreted from fourth quarter 2018 water elevation data (Figure 23) overlaps the entire target capture zone; indicating the sulfate plume is captured by the mitigation wellfield. The wellfield capture zone indicated by numerical modeling (Figure 24) overlaps a majority of the target capture zone, but does not overlap approximately 100 acres of the northern-most portion of the target capture zone.

As discussed below, the difference between the two estimated capture zones is minor and considered an uncertainty. Overall, the capture zone based on measurement data is considered more reliable than the capture zone identified by numerical modeling.

4.7 Uncertainties

EPA (2008) recommends identifying uncertainties in the capture zone analysis. Key uncertainties in the current analysis are the use of the 250 mg/L sulfate concentration contour as the target capture zone, and the different capture zones indicated by water level measurements and numerical modeling results.

The target capture zone selected for the performance review is the 250 mg/L sulfate concentration contour defining the plume. Use of the plume outline as the target capture zone is conservative for

two reasons. First, the location of the 250 mg/L contour is estimated based on the highest sulfate concentration measured at co-located wells completed at different depths and may not be representative of the true depth-averaged concentration. Second, it may be possible to meet the mitigation action objective with a target capture zone that is within the plume outline. For example, a small portion of the plume not captured by the wellfield, such as the northern portion of the plume outside the wellfield capture zone indicated by numerical modeling, may migrate slowly enough that it is diluted over time by advective and dispersive mixing with low sulfate groundwater.

In general, the measurement data are interpreted as providing a more reliable representation of actual conditions than the numerical model results, which are calculations dependent on the model geometry and many input variables. Comparison of Figures 13 and 22 indicates that while the model represents the overall pattern of water elevations in the vicinity of the extraction wells, it may not replicate the potentiometric relationships in detail because of the regional scale of the model, which was developed to simulate the groundwater flow system within a 156 square mile model domain (Hydro Geo Chem, Inc., 2009). Although the numerical model is well suited for designing the mitigation action and predicting the large scale behavior of the plume, it may not be precise enough to predict the exact location of the capture zone. Thus, the capture zones defined by water elevation mapping and numerical simulation are similar at a regional scale, but the capture zone identified by the water level data is considered to best represent actual aquifer conditions in 2018 because it is based on measured field conditions indicated by water elevation data.

Additional uncertainties in the analysis are related to the potential estimation error inherent in the interpretation of groundwater monitoring data. Identification of the wellfield capture zone based on water level interpolation and simulation, and delineation of the plume edge based on groundwater sampling are examples of variables potentially subject to estimation error. The estimation uncertainty in the present analysis is managed through the use of multiple lines of evidence and by having a monitoring data set collected using standardized procedures at a large network of groundwater monitoring wells.

5.0 NUMERICAL SIMULATION OF FUTURE PLUME MIGRATION

The numerical model was updated through 2018 to evaluate the future plume migration under the 2018 average annual groundwater pumping rate of 9,080 gpm. As discussed in Section 3.1, the 2018 average annual pumping rate is less than the performance goal rate of 10,643 gpm set in the Mitigation Plan. The purpose of the model update was to conduct a predictive simulation to evaluate the effect on the mitigation action of pumping at less than the performance goal rate.

As noted in Section 4.4, the numerical model input data for pumping and recharge were updated through 2018. To evaluate the potential effects of the 2018 average annual pumping rate and the temporary wellfield shutdown in December 2018, a predictive numerical simulation was conducted assuming that the well-by-well 2018 annual average pumping rates would be pumped for 100 years into the future, from 2018 to 2118.

As described in Appendix E, the predictive simulations are based on projected future pumping for the mitigation action, projections of future regional groundwater pumping and recharge by the Upper Santa Cruz Pumpers and Users Group (2012), and estimates of future STI seepage through the projected end of mine life in 2089. The pumping rates assumed for mitigation wells for years 2018 through 2118 of the predictive simulation are the 2018 average annual pumping rates listed on Table 3. The seepage rate for the STI was considered constant until mine closure at the end of 2088, at which time draindown would begin. Seepage rates during draindown were based on a separate numerical simulation of gravity drainage from the STI.

The results of the predictive simulation of sulfate plume movement are used to assess the adequacy of the 2018 average annual mitigation action pumping. Figure 25 depicts the simulated 250 mg/L sulfate concentration contours at the end of 2038, 2058, 2078, 2098, and 2118 for the 2018 average annual pumping rate. The numerical simulation results show little change in the shape and location of the plume over time when the mitigation wellfield is pumped at the 2018 average annual rate of 9,080 gpm. Thus, the 2018 average annual pumping rate accomplishes the objectives as the performance goal rate: plume stabilization and maintenance of the mitigation action objective. The two different pumping scenarios have equivalent results and can accomplish the same objectives because the performance goal pumping rates are not unique in that there can be different combinations of pumping locations and rates that accomplish the pumping and mitigation action objectives, as described in Section 2. Based upon this analysis, the shortfall in meeting the performance goal pumping rate in 2018 should not have any effect on accomplishing the goals of the mitigation action, so there should be no need to adjust present or future pumping rates, including the target and performance goal pumping rates, to account for the 2018 shortfall.

6.0 ASSESSMENT OF MITIGATION ACTION

6.1 Assessment of Mitigation Action Performance

The mitigation action is meeting the mitigation action objective and is judged to be performing as expected based on the results of groundwater monitoring. Based on the available data, there is no need to modify the Mitigation Plan action due to performance.

6.2 Mitigation Pumping Program

The average mitigation pumping rate for 2018 was 9,080 gpm, which is 15 percent less than the performance goal pumping rate of 10,643 gpm and 37 percent less than the target pumping rate of 14,330 gpm (Table 3). As discussed in Section 3.1, the low average pumping rate for 2018 was due to two factors: well maintenance activities as wells IW-1, IW-2A, IW-3A, IW-12, PS-1, PS-2, FFS-5, and FFS-6, and a shutdown of the wellfield for several weeks in December to complete a construction project.

The capture zone analysis in Section 4 indicates that the 2018 capture zone generated by the mitigation wellfield encompasses the sulfate plume, even at the reduced annual pumping rate. Thus, the sulfate plume is controlled under the 2018 pumping condition. As discussed in Section 5, a simulation of future plume migration assuming the 2018 average annual pumping rate of 9,080 gpm from 2018 through 2118 predicts that plume movement is controlled and the mitigation action objective would be met. The target and performance goal pumping rates of the mitigation action do not need to be changed at this time based on the current and predicted future control of the plume and maintenance of the mitigation action objective.

6.3 Wellfield Operating and Monitoring Program

The wellfield O&M program met its operational objective of providing continuous operation of the mitigation wellfield, although a large number of wells required maintenance in 2018. Some wells were offline from two to seven months while pumps and parts were ordered, and repairs were contracted and completed. The mitigation wellfield, which is comprised of 36 operable extraction wells, several pumping stations and storage tanks, and miles of pipeline, had a wellfield-wide run time percentage of 47%, while the active wells that pumped the total flow in 2018 had an average run time of 56% (Section 3.1). The wellfield O&M program also met the monitoring objective of providing pumping and water level information for use in the performance review. Based on the 2018 results there is no need to modify the wellfield O&M program.

6.4 Groundwater Monitoring Program

The Mitigation Plan identifies the following objectives for the Post-Implementation Groundwater Monitoring Plan:

- Monitor wells along the plume edge to track the location of the plume over time
- Monitor sulfate in sentinel and drinking water supply wells near the plume to verify that sulfate concentrations are less than 250 mg/L
- Document water level and sulfate concentrations in the vicinity of the mitigation wellfield to assess mitigation progress.

The groundwater monitoring program met its objectives of collecting sulfate concentration and water level data needed to determine the extent of the plume, document sulfate concentrations at sentinel and drinking water supply wells, and evaluate wellfield capture. The following changes to the groundwater monitoring program are recommended to expand water level monitoring at the northern edge of the plume and to update the schedule for Post-Implementation Groundwater Monitoring to reflect current operational and aquifer conditions:

- Semiannual water level measurements should be made at three additional monitoring wells: M-1, 1758, and 2123 at the north end of the plume (Figure 26). The additional data will provide more complete information for interpreting water elevation contours and the groundwater flow direction downgradient of the plume.
- Water level monitoring at I-10 should be discontinued because the well is now an active pumping well. Water level measurements at I-12 will be collected in lieu of measurements at I-10 (Figure 26).
- Water level monitoring at M-13 should be discontinued because the water level has dropped below the bottom of the well. Water level measurements should be collected at well 2113 in lieu of measurements at M-13 (Figure 26).
- The well use listed for IW-5A, IW-13, and IW-20 should be changed from “Extraction” to “Monitor” as these former pumping wells are now used only as piezometers
- The monitoring specification for MW-2016-5A, MW-2016-5B, and MW-2016-6 should be changed to semiannual in the second and fourth quarters because the baseline monitoring period is complete.

Table 5 provides the updated schedule for Post-Implementation Groundwater Monitoring, with shaded entries indicating the recommended changes to the schedule.

7.0 REFERENCES

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TABLES

TABLE 1
Target Pumping Rates for Mitigation Action

Well Name	ADWR Registry Number									
		2014-2020	2021-2025	2026-2030	2031-2035	2036-2042	2043-2050	2051-2060	2061-2089	2090-2112
IW-01	623129	250	250	250	250	188	80	80	80	80
IW-02A	216464	300	300	300	300	300	200	200	200	200
IW-03A	201732	500	500	500	500	400	400	300	300	300
IW-04	623132	40	40	40	40	40	40	40	40	40
IW-06A	545565	80	80	80	80	40	40	40	40	40
IW-08	508236	350	350	350	350	325	200	200	200	200
IW-09	508238	200	200	200	200	150	150	150	150	150
IW-10	508237	250	250	250	250	250	100	100	100	100
IW-11	508235	325	325	325	250	250	250	150	150	150
IW-12	545555	125	125	125	75	75	50	50	50	50
IW-14	545557	60	60	60	60	50	40	40	40	40
IW-15	545558	40	40	40	40	40	40	40	40	40
IW-19	545562	150	150	150	100	100	50	50	50	50
IW-21	545564	100	100	100	75	50	50	50	50	50
IW-22	200554	300	300	300	300	300	200	200	200	200
IW-23	200555	120	120	120	120	120	50	50	50	50
IW-24	200556	50	50	50	50	50	40	40	40	40
EXISTING IW WELL TOTAL	3240	3240	3240	3040	2728	1980	1780	1780	1780	1780
IW-25	219596	400	400	350	350	350	300	300	300	300
IW-26	219143	350	350	350	350	350	300	300	300	300
IW-27	219136	100	100	100	100	100	100	100	100	100
IW-28	219137	400	400	400	400	400	350	350	350	350
IW-29	222865	40	40	40	40	40	40	40	40	40
NEW IW WELL TOTAL	1290	1290	1240	1240	1240	1090	1090	1090	1090	1090
FFS-1	221662	800	800	800	800	800	800	800	800	800
FFS-2	221663	700	700	700	700	700	700	700	700	700
FFS-3	221664	400	400	400	400	400	400	400	400	400
FFS-4	221665	200	200	200	200	200	200	200	200	200
FFS-5	221666	1000	1000	1000	1000	1000	1000	1000	1000	1000
FFS-6	221667	600	600	600	600	600	600	600	600	600
FFS WELL TOTAL	3700	3700	3700	3700	3700	3700	3700	3700	3700	3700
PS-1	220861	700	700	700	700	700	700	700	700	700
PS-2	220862	800	800	800						
PS-3	220863	800	800	800						
PS-4	220864	1000	1000	1000	1000	1000	1000	1000	1000	1000
PS WELL TOTAL	3300	3300	3300	3300	3300	3300	3300	3300	3300	3300
MC-1	221660	900	900	900	900	900	900	900	900	900
MC-2	221761	700	700	700	700	700	700	700	700	700
MC-3	221661	600	600	600	900	900	900	900	900	900
MC-4	220842	600	600	600	600	600	600	600	600	600
MC WELL TOTAL	2800	2800	2800	3100						
TOTAL PUMPING	14,330	14,330	14,280	14,380	14,068	13,170	12,970	12,970	12,970	12,970

Notes:

ADWR = Arizona Department of Water Resources

FFS = Focused Feasibility Study

IW = Interceptor Wells

PS = Plume Stabilization

MC = Mass Capture

TABLE 2
Performance Goal Pumping Rates

Well Name	ADWR Registry Number	Gallons per Minute				
		2014-2020	2021-2025	2026-2030	2031-2035	2036-2042
IW-01	623129	250	250	250	250	188
IW-02A	216464	300	300	300	300	300
IW-03A	201732	500	500	500	500	400
IW-04	623132	40	40	40	40	40
IW-06A	545565	80	80	80	80	40
IW-08	508236	350	350	350	350	325
IW-09	508238	200	200	200	200	150
IW-10	508237	250	250	250	250	250
IW-11	508235	325	325	325	250	250
IW-12	545555	125	125	125	75	75
IW-14	545557	60	60	60	60	50
IW-15	545558	40	40	40	40	40
IW-19	545562	150	150	150	100	100
IW-21	545564	100	100	100	75	50
IW-22	200554	300	300	300	300	300
IW-23	200555	120	120	120	120	120
IW-24	200556	50	50	50	50	50
EXISTING IW WELL TOTAL		3240	3240	3240	3040	2728
IW-25	219596	400	400	350	350	350
IW-26	219143	350	350	350	350	350
IW-27	219136	100	100	100	100	100
IW-28	219137	400	400	400	400	400
IW-29	222865	40	40	40	40	40
NEW IW WELL TOTAL		1290	1290	1240	1240	1240
FFS-1	221662	338	338	338	338	488
FFS-2	221663	300	300	300	300	450
FFS-3	221664	225	225	225	225	225
FFS-4	221665	150	150	150	150	113
FFS-5	221666	225	225	225	225	225
FFS-6	221667	225	225	225	225	225
FFS WELL TOTAL		1463	1463	1463	1463	1726
PS-1	220861	700	700	700	700	700
PS-2	220862	800	800	800	800	800
PS-3	220863	800	800	800	800	800
PS-4	220864	1000	1000	1000	1000	1000
PS WELL TOTAL		3300	3300	3300	3300	3300
MC-1	221660	0	0	0	0	0
MC-2	221761	0	0	0	0	0
MC-3	221661	750	750	750	750	750
MC-4	220842	600	600	600	600	600
MC WELL TOTAL		1350	1350	1350	1350	1350
TOTAL PUMPING		10,643	10,643	10,593	10,393	10,344

Notes:

ADWR = Arizona Department of Water Resources

FFS = Focused Feasibility Study

IW = Interceptor Wells

PS = Plume Stabilization

MC = Mass Capture

Note: The performance goal rate for PS-1 is corrected to 700 gpm from the 750 gpm reported in the Mitigation Plan.

TABLE 3
**2018 Groundwater Pumping Compared to
 Target and Performance Goal Pumping Rates**

WELL NAME	ADWR REGISTRY NUMBER	MITIGATION PLAN TARGET PUMPING RATE (gpm)	MITIGATION PLAN PERFORMANCE GOAL RATE (gpm)	2018 TOTAL GALLONS PUMPED	2018 AVERAGE PUMPING RATE (gpm)	2018 AVERAGE RATE MINUS TARGET RATE (gpm)	2018 AVERAGE RATE MINUS PERFORMANCE GOAL RATE (gpm)
IW-01	623129	250	250	55,427,625	105	-145	-145
IW-02A	216464	300	300	55,793,438	106	-194	-194
IW-03A	201732	500	500	116,281,875	221	-279	-279
IW-04	623132	40	40	20,868,000	40	0	0
IW-06A	545565	80	80	0	0	-80	-80
IW-08	508238	350	350	81,907,938	156	-194	-194
IW-09	508236	200	200	71,202,031	135	-65	-65
IW-10	508237	250	250	7,181,000	14	-236	-236
IW-11	508235	325	325	72,949,000	139	-186	-186
IW-12	545555	125	125	15,176,563	29	-96	-96
IW-14	545557	60	60	0	0	-60	-60
IW-15	545558	40	40	2,935,000	6	-34	-34
IW-19	545562	150	150	41,524,000	79	-71	-71
IW-21	545564	100	100	0	0	-100	-100
IW-22	200554	300	300	2,266,000	4	-296	-296
IW-23	200555	120	120	0	0	-120	-120
IW-24	200556	50	50	0	0	-50	-50
IW-25	219596	400	400	158,811,125	302	-98	-98
IW-26	219143	350	350	84,513,313	161	-189	-189
IW-27	219136	100	100	89,737,781	171	71	71
IW-28	219137	400	400	76,374,125	145	-255	-255
IW-29 ¹	222865	40	40	221,275,688	421	381	381
IW WELL TOTAL		4,530	4,530	1,174,224,502	2,234	-2,296	-2,296
				Percent of Target Pumping Rate	49%		
				Percent of Performance Goal Rate	49%		
FFS-1	221662	800	338	293,635,500	559	-241	221
FFS-2	221663	700	300	281,944,000	536	-164	236
FFS-3	221664	400	225	75,529,500	144	-256	-81
FFS-4	221665	200	150	29,804,000	57	-143	-93
FFS-5	221666	1,000	225	220,736,125	420	-580	195
FFS-6	221667	600	225	169,916,750	323	-277	98
FFS WELL TOTAL		3,700	1,463	1,071,565,875	2,039	-1,661	576
				Percent of Target Pumping Rate	55%		
				Percent of Performance Goal Rate	139%		
PS-1	220861	700	700	292,476,000	556	-144	-144
PS-2	220862	800	800	291,855,125	555	-245	-245
PS-3	220863	800	800	376,228,375	716	-84	-84
PS-4	220864	1,000	1,000	517,945,500	985	-15	-15
PS WELL TOTAL		3,300	3,300	1,478,505,000	2,813	-487	-487
				Percent of Target Pumping Rate	85%		
				Percent of Performance Goal Rate	85%		
MC-1	221660	900	0	367,216,000	699	-201	699
MC-2	221761	700	0	273,822,563	521	-179	521
MC-3	221661	600	750	202,172,688	385	-215	-365
MC-4	220842	600	600	204,825,375	390	-210	-210
MC WELL TOTAL		2,800	1,350	1,048,036,625	1,994	-806	644
				Percent of Target Pumping Rate	71%		
				Percent of Performance Goal Rate	148%		
TOTAL PUMPING		14,330	10,643	4,772,332,002	9,080	-5,250	-1,563
				Percent of Target Pumping Rate	63%		
				Percent of Performance Goal Rate	85%		

Notes:

ADWR = Arizona Department of Water Resources

IW = Interceptor Wells, FFS = Focused Feasibility Study , PS = Plume Stabilization, MC = Mass Capture

gpm = gallons per minute

Target pumping rates and performance goal rates from Tables 1 and 2, respectively, of the Mitigation Plan. The performance goal for PS-1 is corrected to 700 gpm from the 750 gpm reported in the Mitigation Plan.

¹ No target or performance goal pumping rates were set for IW-29 because its installation post-dated the Mitigation Plan. The 40 gpm specification was shifted to IW-29 from IW-5A in 2019 when IW-5A was removed from service.

TABLE 4
Post-Implementation Groundwater Monitoring for 2018

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-2	623103	Monitor	Sierrita		SO4+WL		SO4+WL
ESP-3	623104	Monitor	Sierrita		SO4+WL		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	Ag Extraction	GVDWID		SO4+WL		WLO
HAVEN GOLF	515867	Monitor	Haven Golf		SO4		
I-10	608525	Monitor	Sierrita		WLO		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	Monitor	Sierrita		WLO		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
IW-13	545556	Monitor	Sierrita		WLO		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	Monitor	Sierrita		WLO		WLO
IW-21	545564	Extraction	Sierrita		SO4+WL		WLO
IW-22	200554	Extraction	Sierrita		SO4+WL		WLO

TABLE 4
Post-Implementation Groundwater Monitoring for 2018

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
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		SO4+WL
M-9	501652	Monitor	Sierrita		SO4+WL		WLO
M-10	501653	Monitor	Sierrita		SO4+WL		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
MH-14	528098	Monitor	Sierrita		WLO		WLO
MH-15E	528094	Monitor	Sierrita		WLO		WLO
MH-16E	528100	Monitor	Sierrita		WLO		WLO
MH-16W	528099	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-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 ¹	906816	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-3C ¹	906817	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL

TABLE 4
Post-Implementation Groundwater Monitoring for 2018

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MO-2007-4A ²	907213	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4B ²	907212	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4C ²	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 ³	907607	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-6B ³	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	SO4+WL ⁵	SO4+WL	SO4+WL ⁵	SO4+WL
MW-2016-5B	919472	Monitor	Sierrita	SO4+WL ⁵	SO4+WL	SO4+WL ⁵	SO4+WL
MW-2016-6	919676	Monitor	Sierrita	SO4+WL ⁵	SO4+WL	SO4+WL ⁵	SO4+WL
NP-2 ¹	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
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 Sentinel Well for CW-9

² Sentinel Well for CW-6

³ Sentinel Well for GV-01-GVDWID and GV-02-GVDWID

⁴ Sentinel Well for CW-10

⁵ Quarterly for baseline monitoring until second quarter of 2018; sampling reverts to second and fourth quarters after second quarter 2018

TABLE 5
Updated Sampling Schedule for Post-Implementation Groundwater Monitoring

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-2	623103	Monitor	Sierrita		SO4+WL		SO4+WL
ESP-3	623104	Monitor	Sierrita		SO4+WL		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		
I-10	608525	Monitor	Sierrita		WLO		WLO
I-12	608523	Monitor	Sierrita		WLO		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	Monitor	Sierrita		WLO		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 5
Updated Sampling Schedule for Post-Implementation Groundwater Monitoring

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
IW-13	545556	Monitor	Sierrita		WLO		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	Monitor	Sierrita		WLO		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-1	85228	Monitor	Sierrita		WLO		WLO
M-5	87387	Monitor	Sierrita		WLO		WLO
M-8	87390	Monitor	Sierrita		SO4+WL		SO4+WL
M-9	501652	Monitor	Sierrita		SO4+WL		WLO
M-10	501653	Monitor	Sierrita		SO4+WL		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 5
Updated Sampling Schedule for Post-Implementation Groundwater Monitoring

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-16E	528100	Monitor	Sierrita		WLO		WLO
MH-16W	528099	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-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 ¹	906816	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-3C ¹	906817	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4A ²	907213	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4B ²	907212	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-4C ²	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 ³	907607	Sentinel	Sierrita	SO4+WL	SO4+WL	SO4+WL	SO4+WL
MO-2007-6B ³	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	SO4+WL ⁵	SO4+WL	SO4+WL ⁵	SO4+WL
MW-2016-5B	919472	Monitor	Sierrita	SO4+WL ⁵	SO4+WL	SO4+WL ⁵	SO4+WL
MW-2016-6	919676	Monitor	Sierrita	SO4+WL ⁵	SO4+WL	SO4+WL ⁵	SO4+WL
NP-2 ¹	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
1225	634394	Monitor	Sierrita		WLO		WLO
1350	ND	Monitor	Sierrita		WLO		WLO

TABLE 5
Updated Sampling Schedule for Post-Implementation Groundwater Monitoring

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1758	634392	Monitor	Sierrita		WLO		WLO
1759	634393	Monitor	Sierrita		WLO		WLO
2123	511895	Monitor	Sierrita		WLO		WLO
2125	514015	Monitor	Sierrita		WLO		WLO

Notes:

Shading indicates change from previous sampling schedule (see Section 6.4)

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

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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 Sentinel Well for CW-9

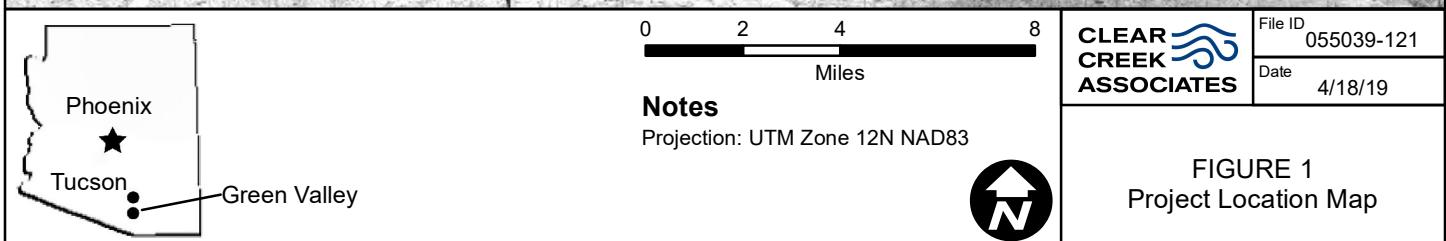
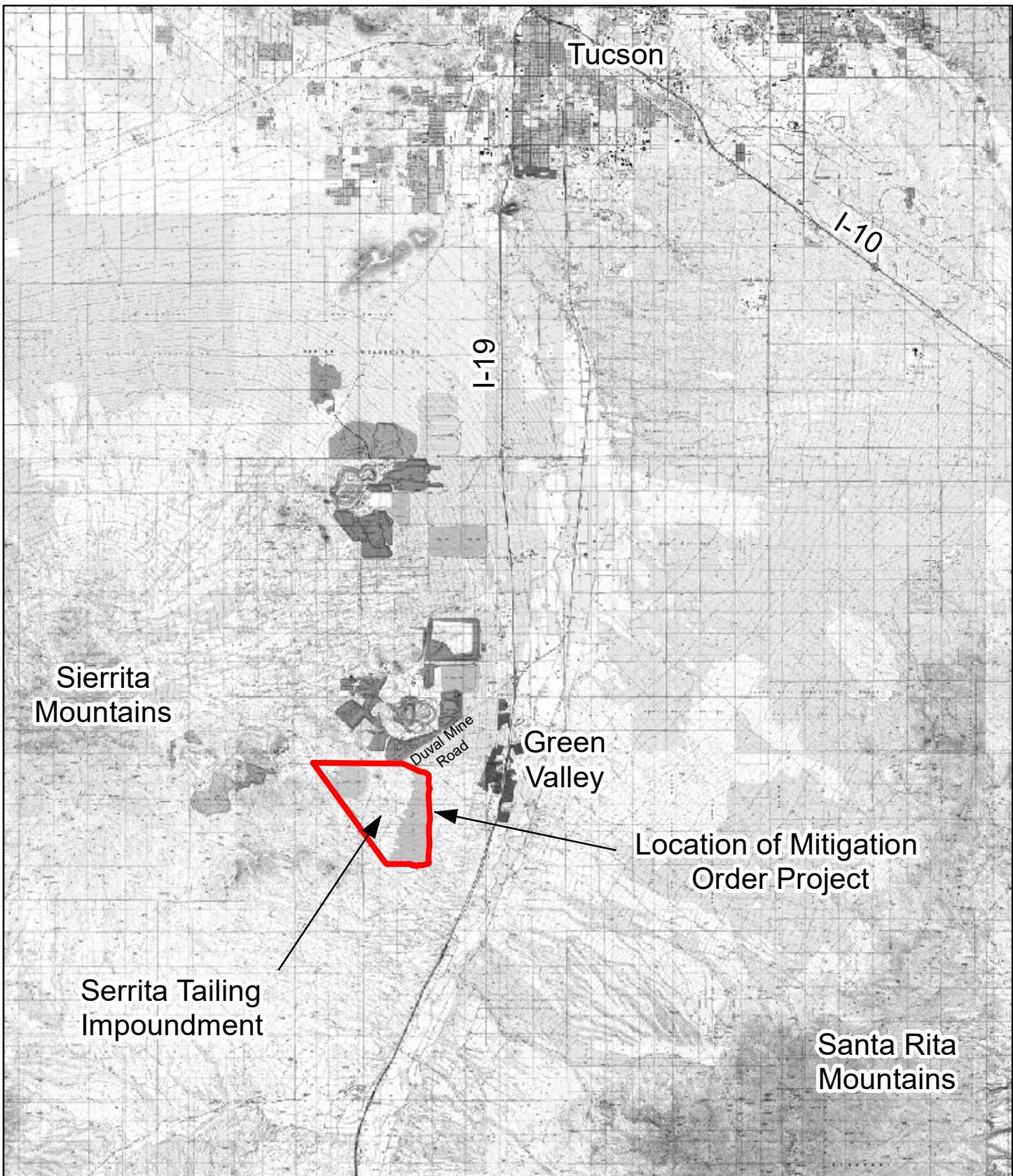
² Sentinel Well for CW-6

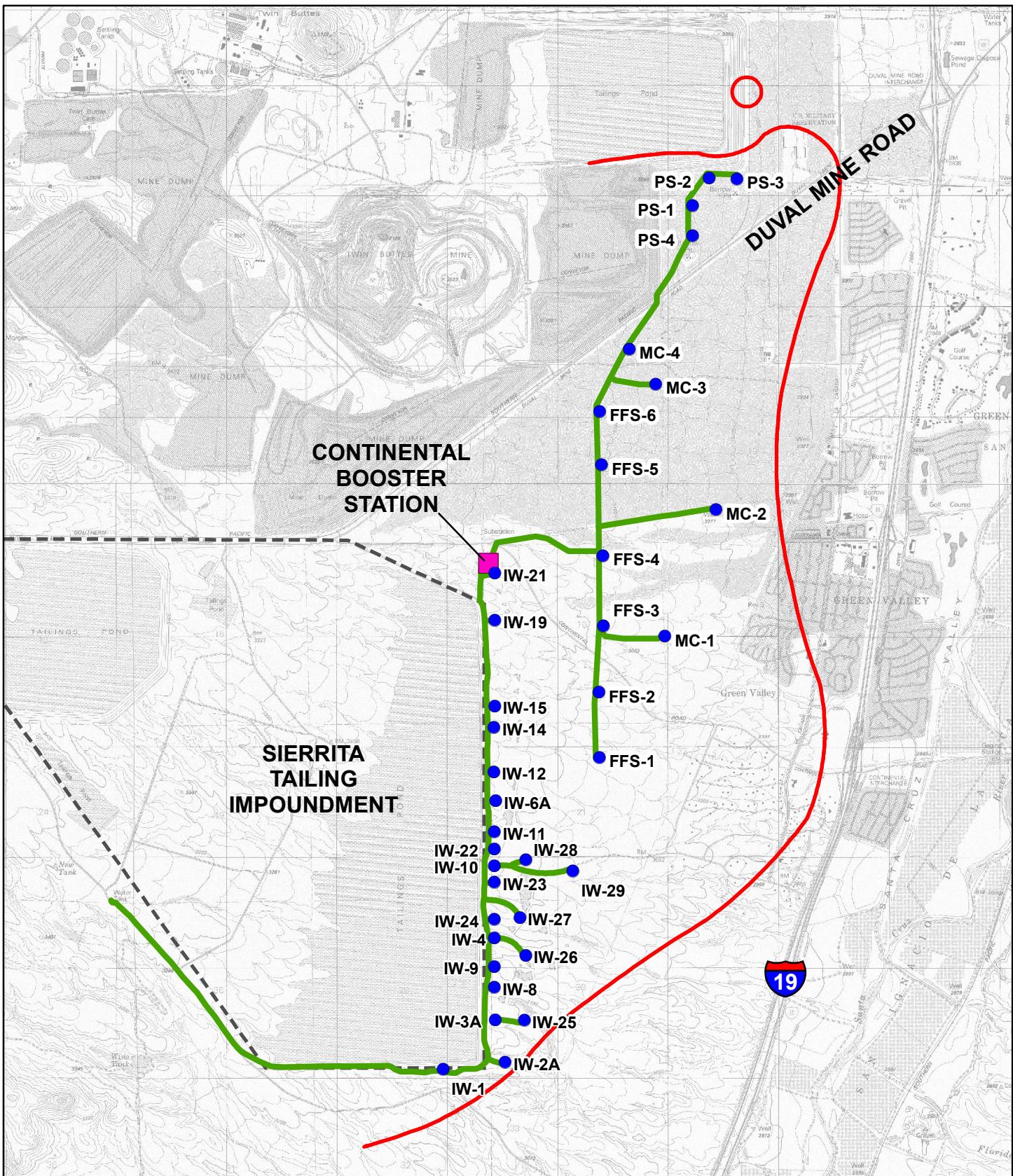
³ Sentinel Well for GV-01-GVDWID and GV-02-GVDWID

⁴ Sentinel Well for CW-10

⁵ Quarterly for baseline monitoring until second quarter of 2018; sampling reverts to second and fourth quarters after second quarter 2018

FIGURES





Legend

- Extraction Well
- Booster Station
- Pipeline
- - - Tailing Impoundment
- Q4 2018 250 mg/L Sulfate Concentration Contour

0 2,000 4,000
Feet

Notes

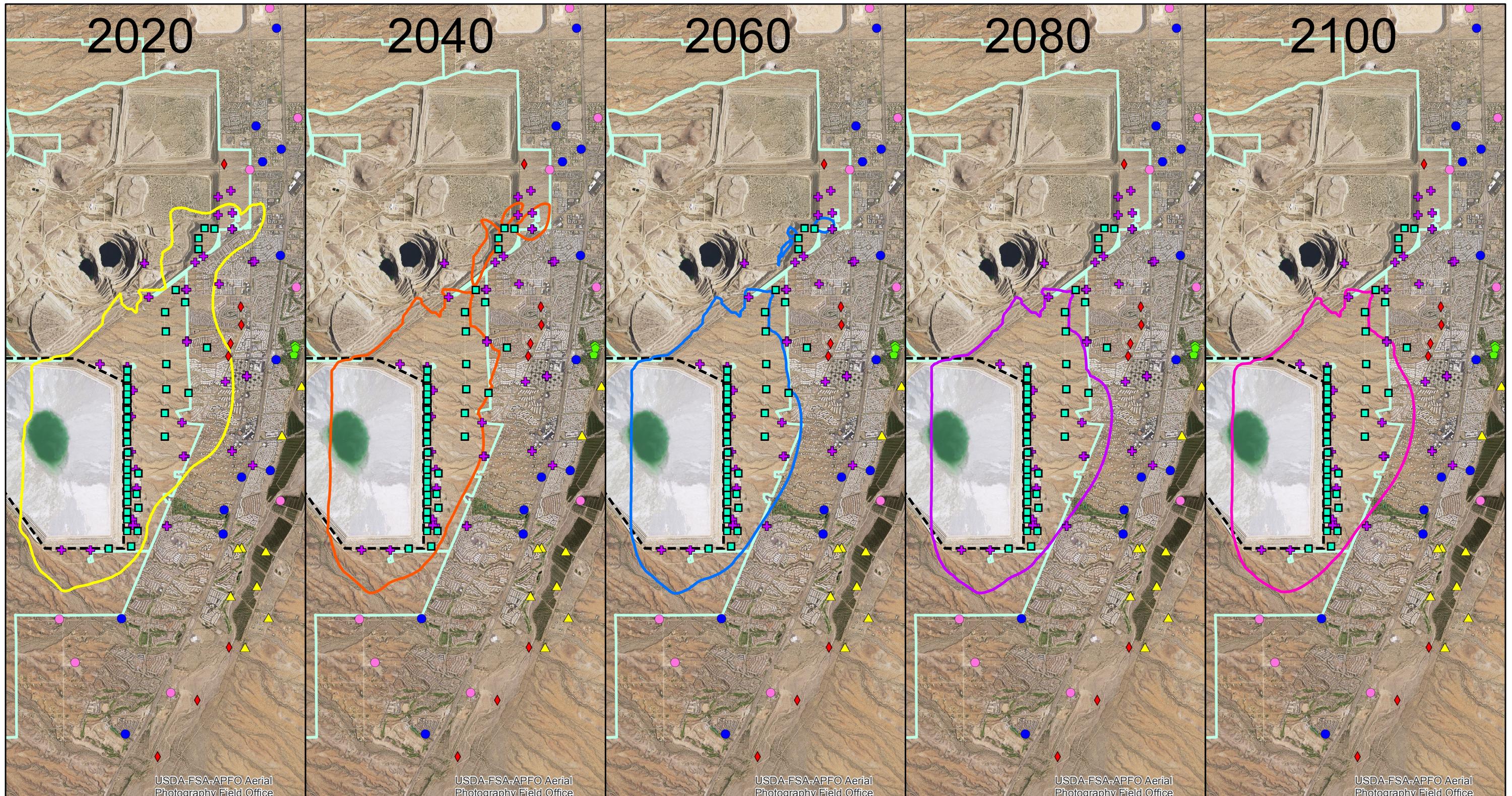
Projection: UTM Zone
12N NAD83

CLEAR CREEK ASSOCIATES

File ID 055039-266

Date 3/8/19

FIGURE 2
Mitigation Action
Extraction Wells
and Pumping Facilities

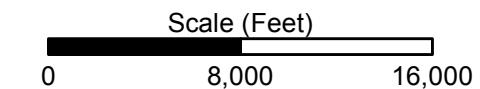


Legend	
▲ Agriculture	— 250 mg/L Contour in 2020
◆ Golf Course	— 250 mg/L Contour in 2040
◆ Mining	— 250 mg/L Contour in 2060
◆ Mitigation Extraction Wells	— 250 mg/L Contour in 2080
● Municipal Supply	— 250 mg/L Contour in 2100
● Other Users	
● Post-Implementation Monitoring Well	

Tailing Impoundment
Sierra Property Boundary

Notes

Projection: UTM Zone 12N NAD83
mg/L = milligrams per liter
Simulation Run: 3/30/15

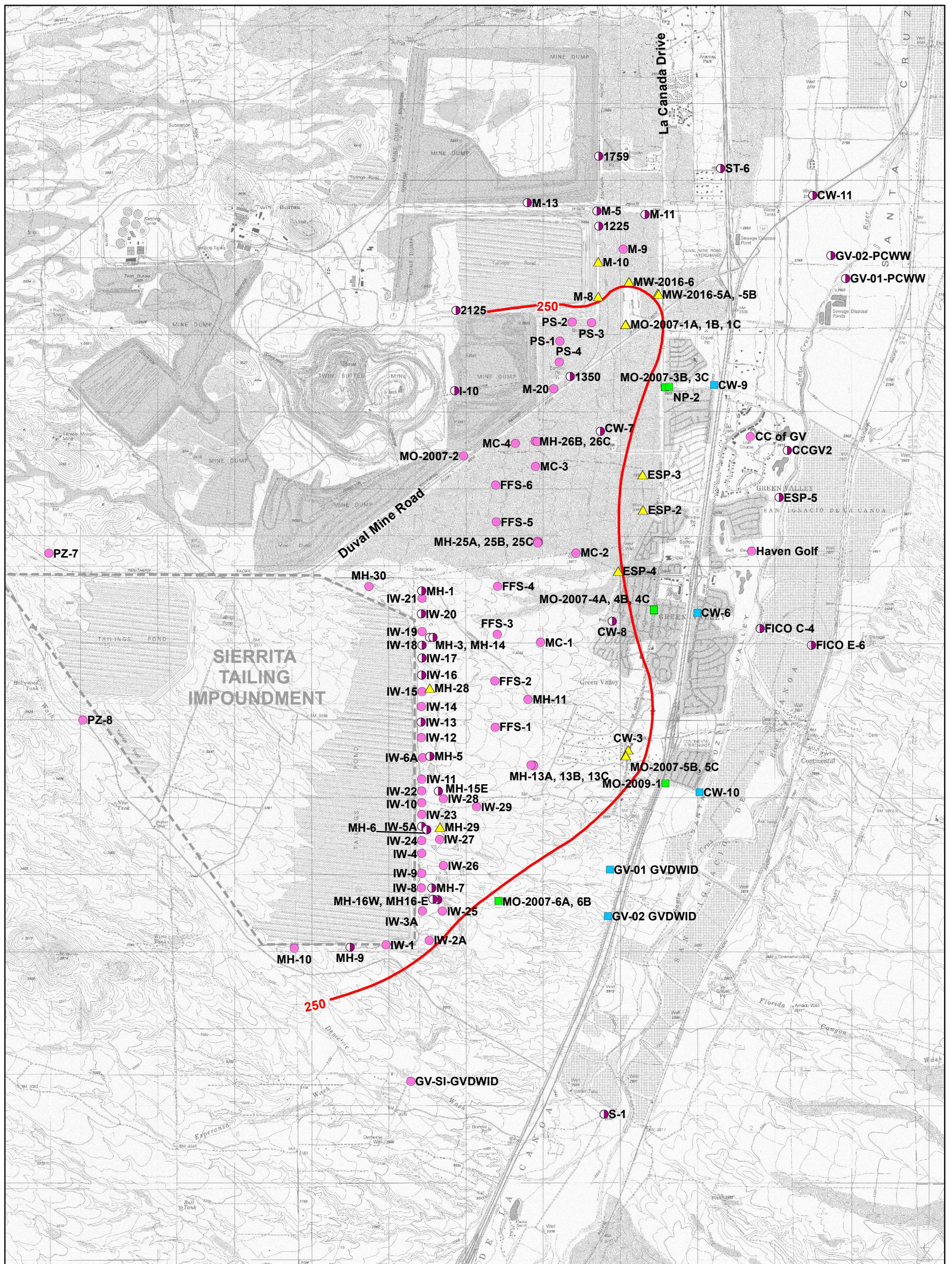


Date 2/18/16 File ID 055039-106



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ASSOCIATES

FIGURE 3
Simulated Sulfate Concentration
from 2020 to 2100
for Mitigation Plan
Target Pumping Rates



Legend

- Annual Sampling and Semi-Annual Water Levels (Second and Fourth Quarters)
- 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

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

Date	3/8/19	File ID	055039-006L
		CLEAR CREEK ASSOCIATES	

Notes

Projection: UTM Zone 12N NAD83
mg/L = milligrams per liter

FIGURE 4
Sampling Locations
and Frequency
for Post-Implementation
Groundwater Monitoring

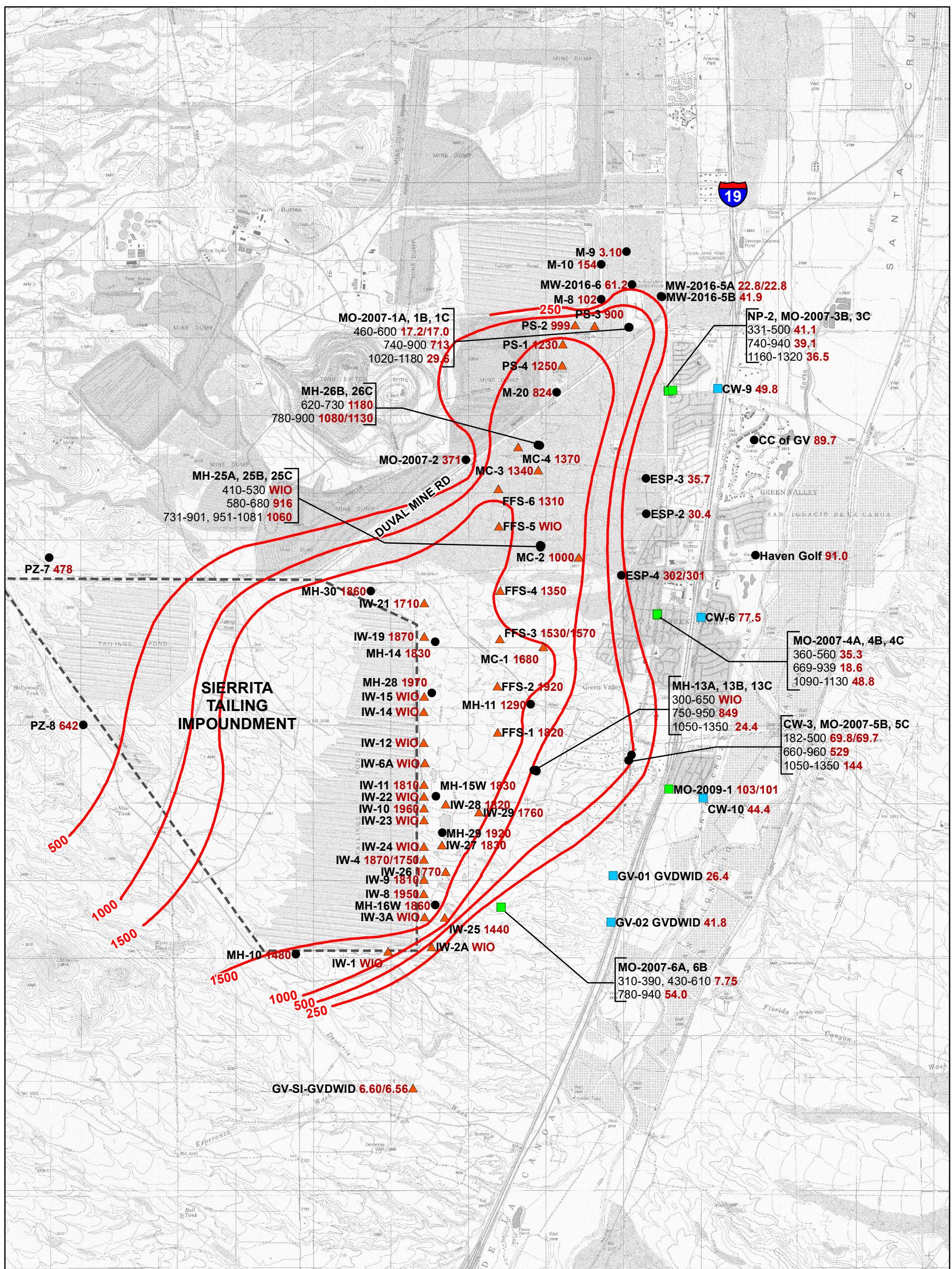
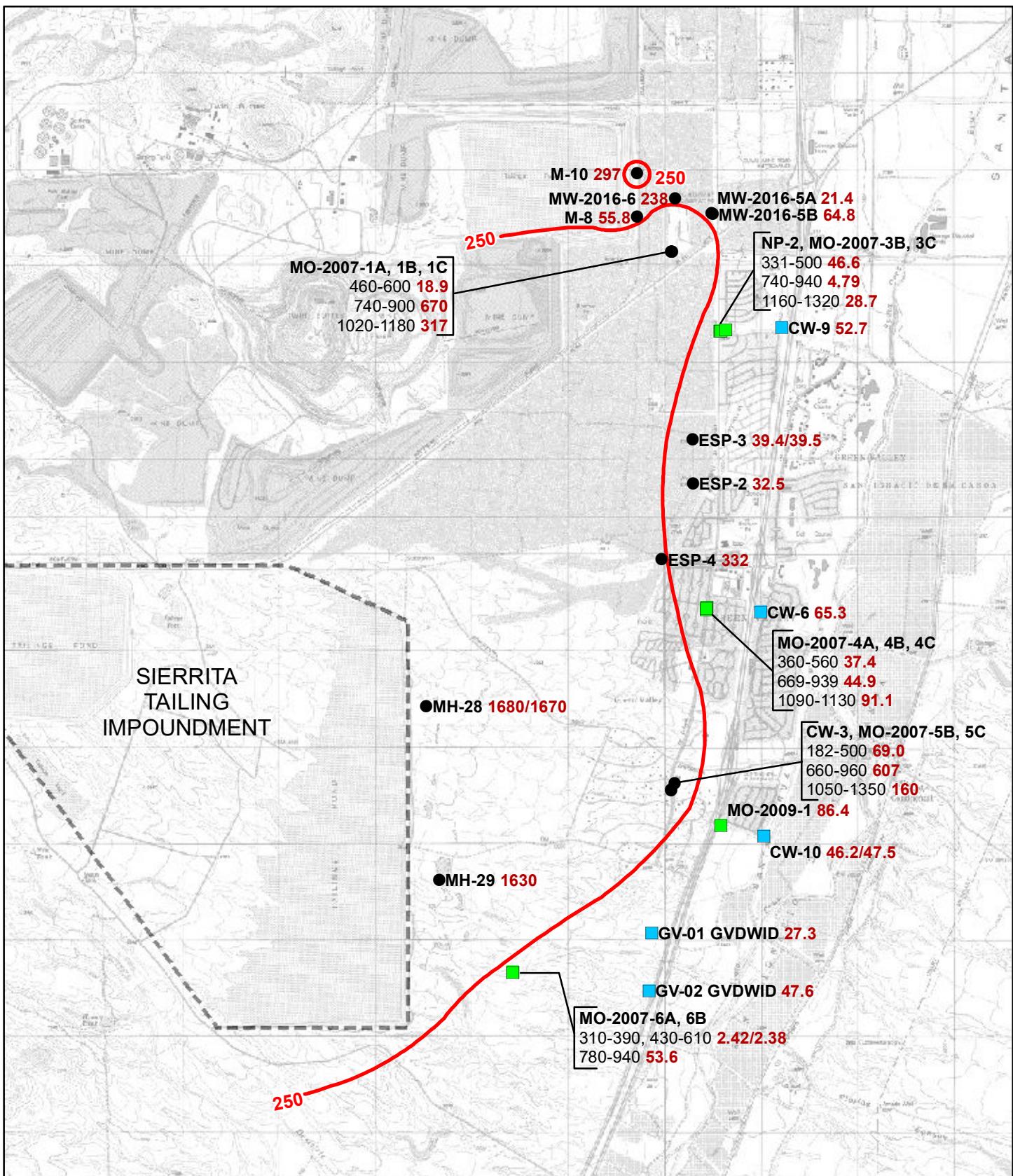


FIGURE 5
Sulfate Concentrations
in Groundwater,
Second Quarter 2018



Legend

— 250 mg/L Sulfate Concentration Contour

■ CW-6 Well ID

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

[Co-Located Wells

Screened Interval (feet below land surface):

Sulfate Concentration (mg/L)

Well Symbols

0 2,500 5,000

Feet

● Monitor Well

■ Sentinel Well

■ Drinking Water Supply Well

Notes

Projection: UTM Zone 12N NAD83
mg/L = milligrams per liter

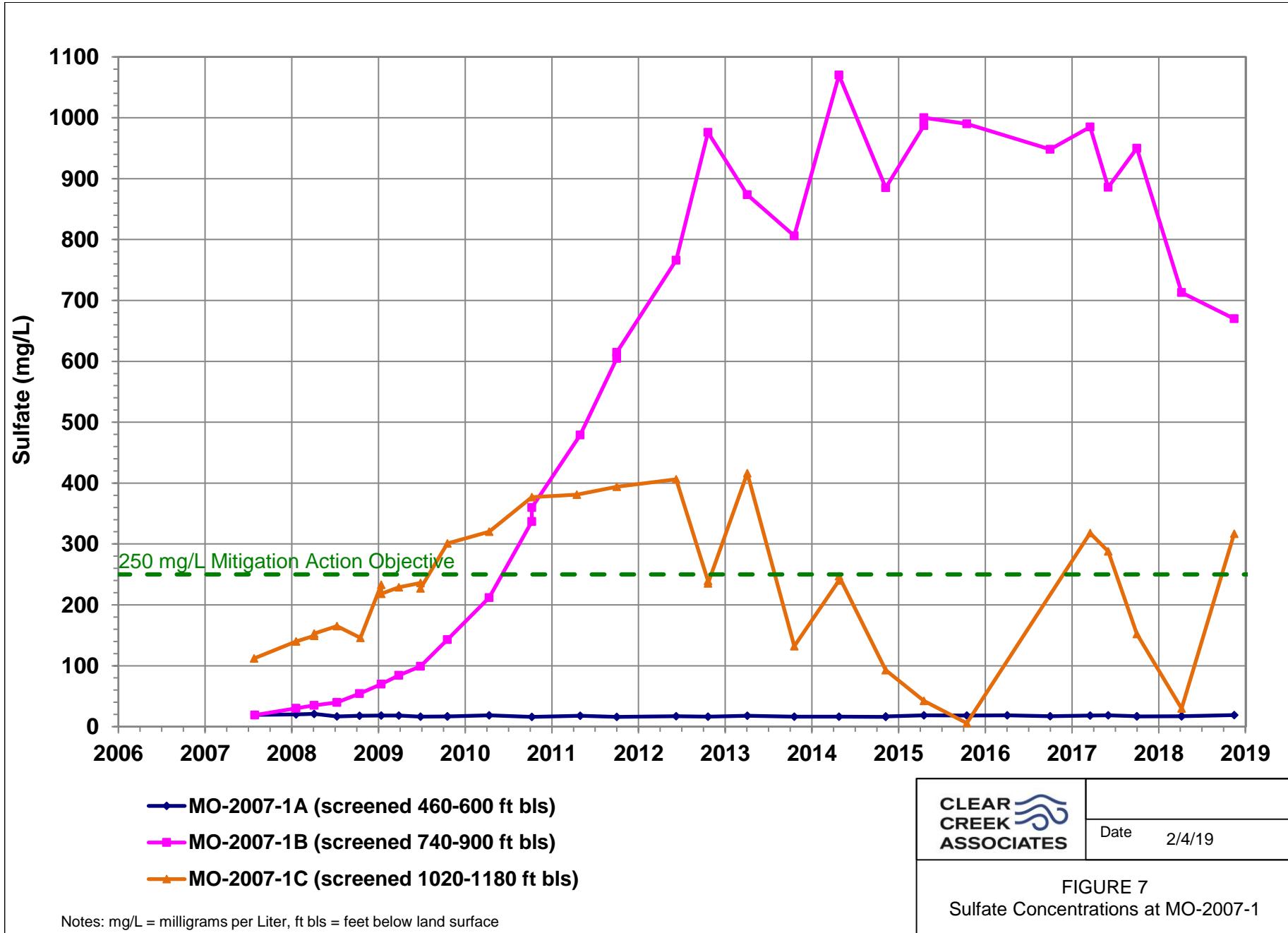
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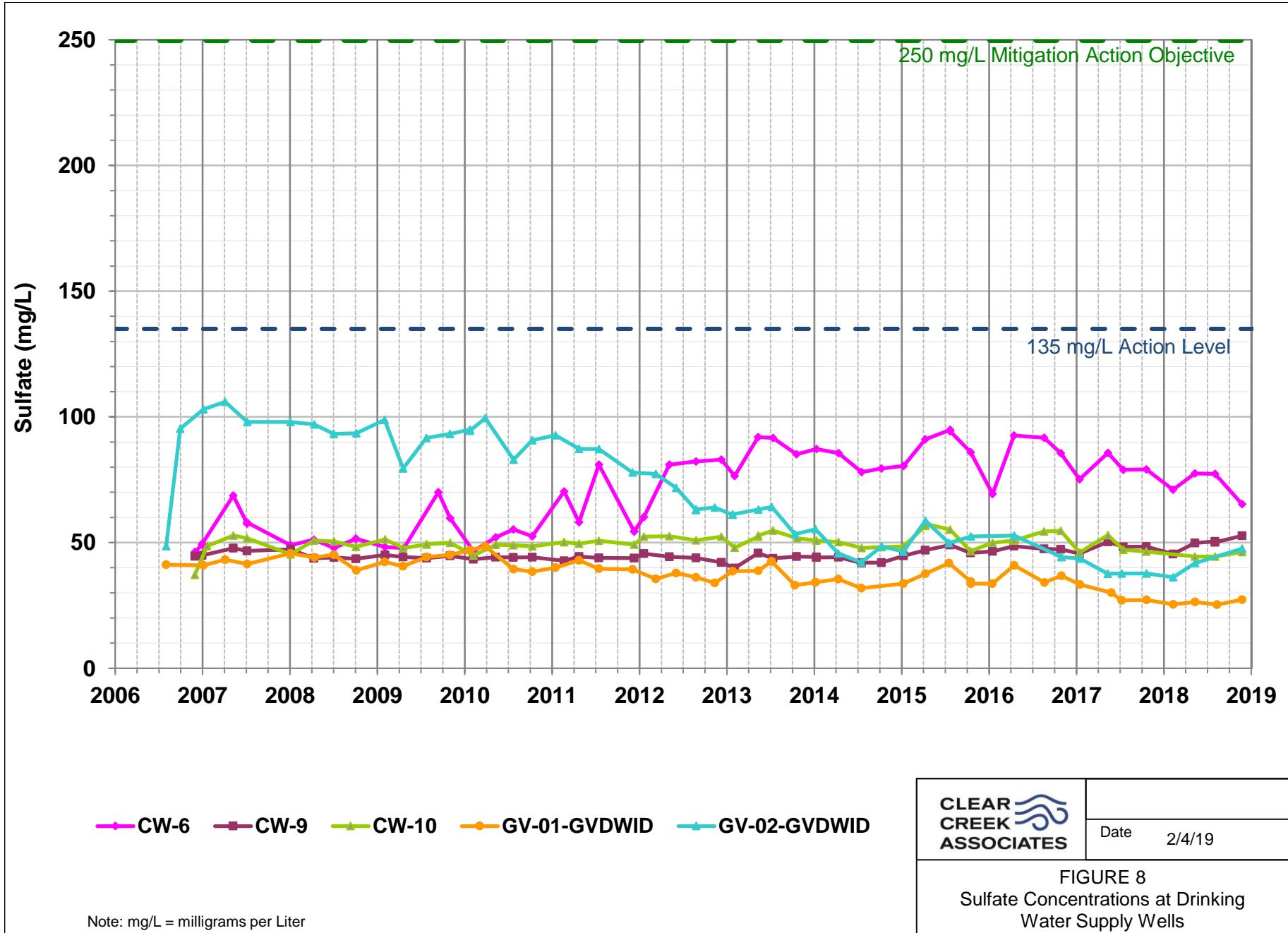
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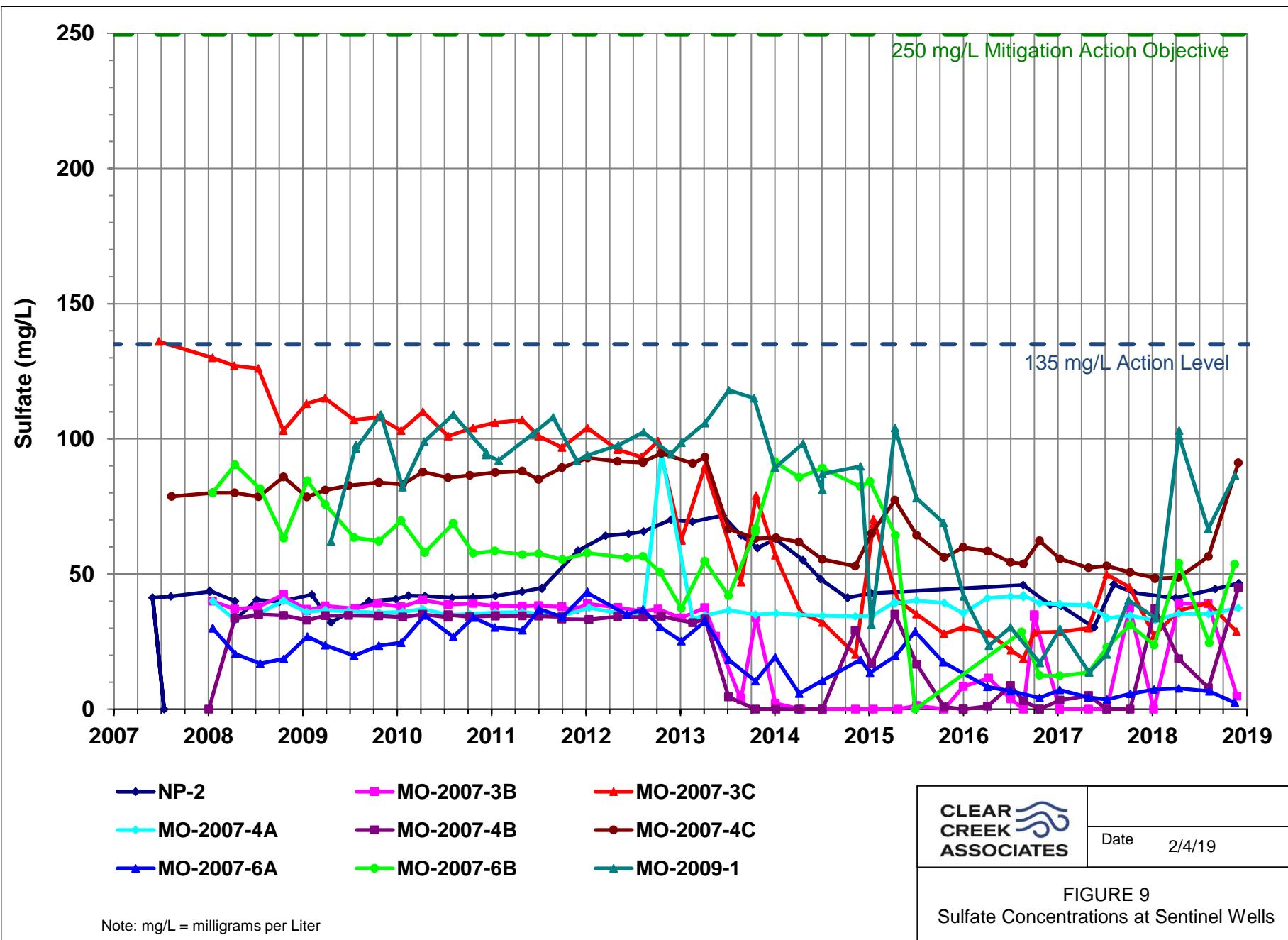
Date 4/8/19

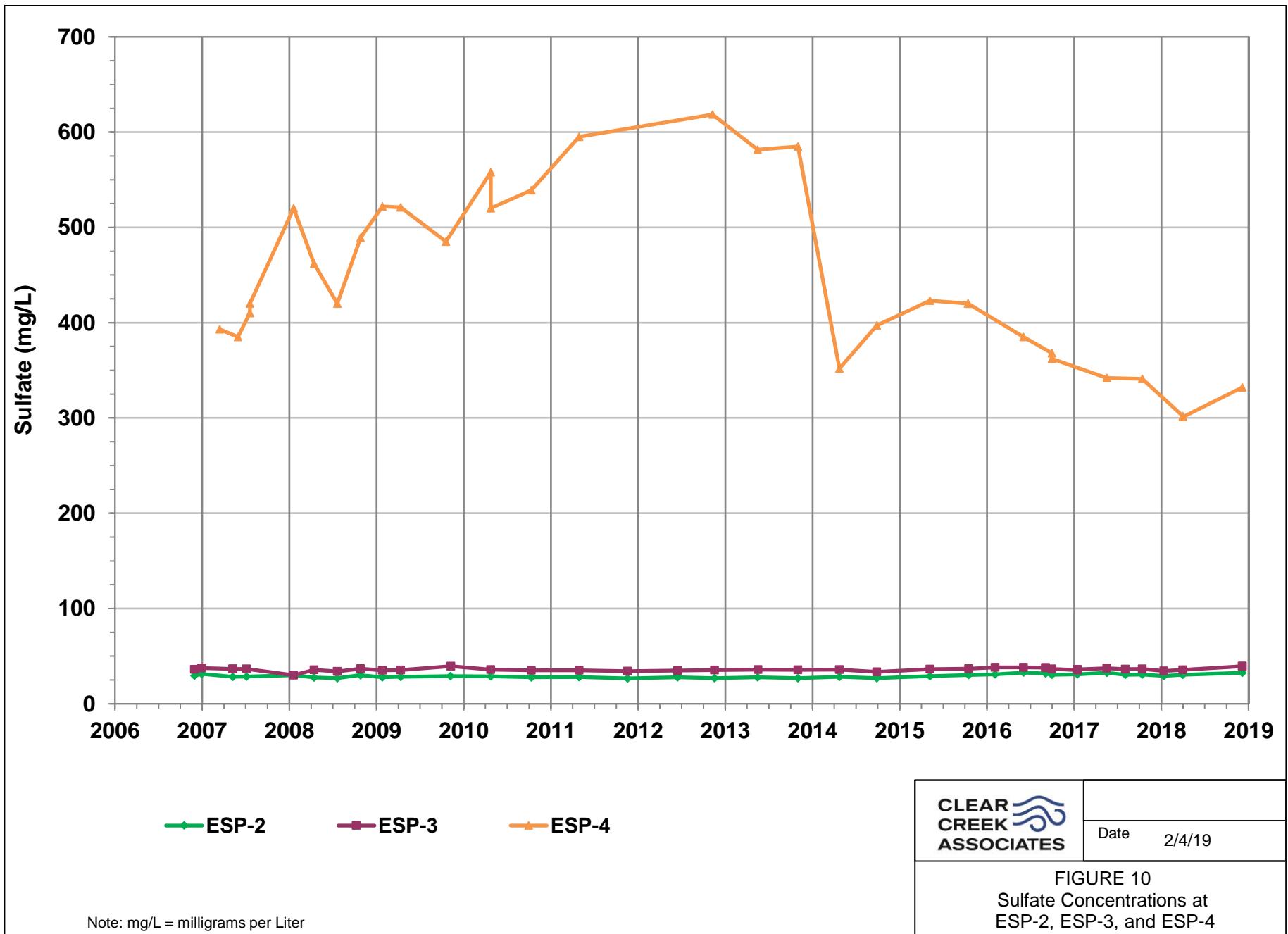


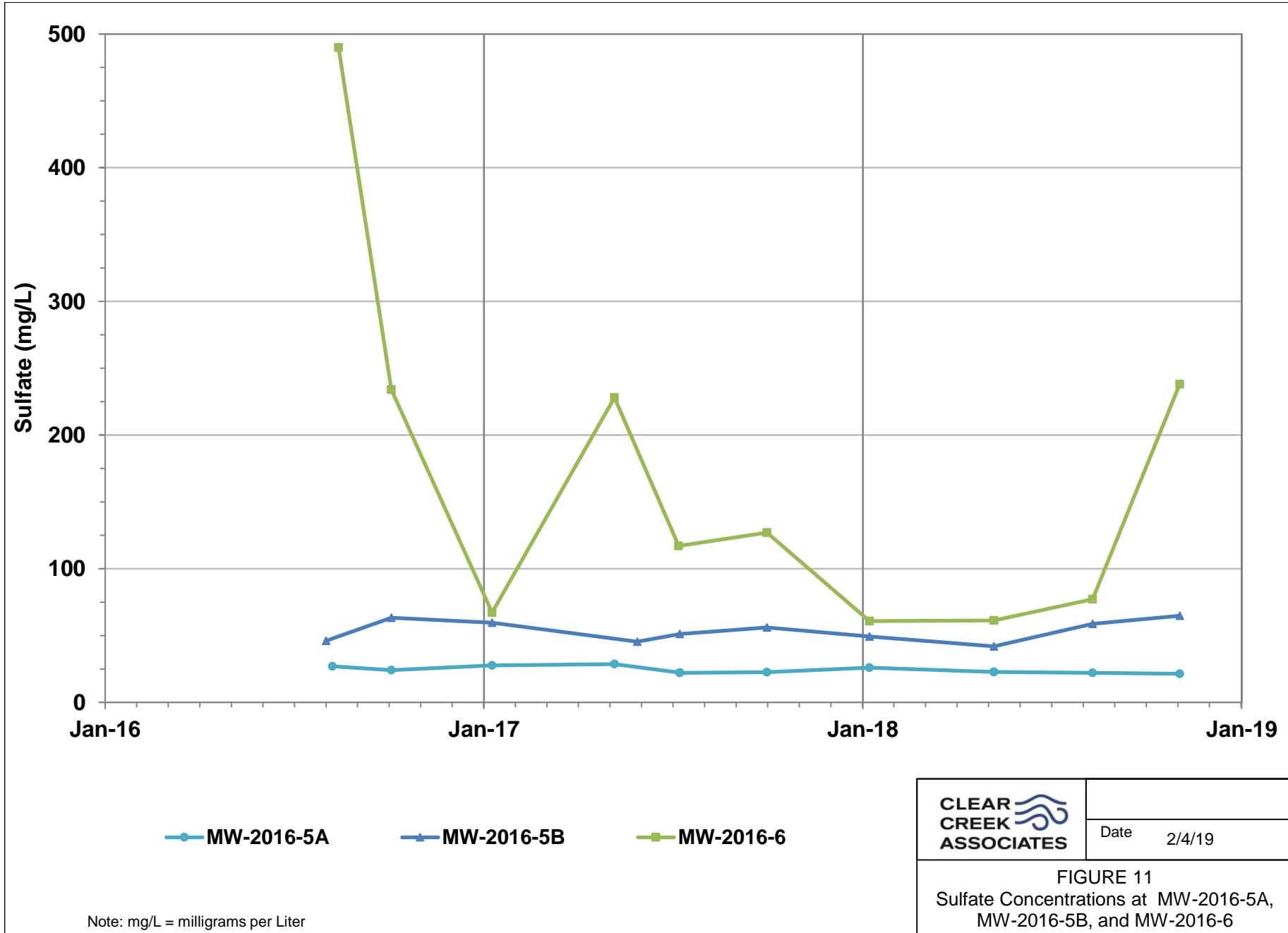
FIGURE 6
Sulfate Concentrations
in Groundwater,
Fourth Quarter 2018

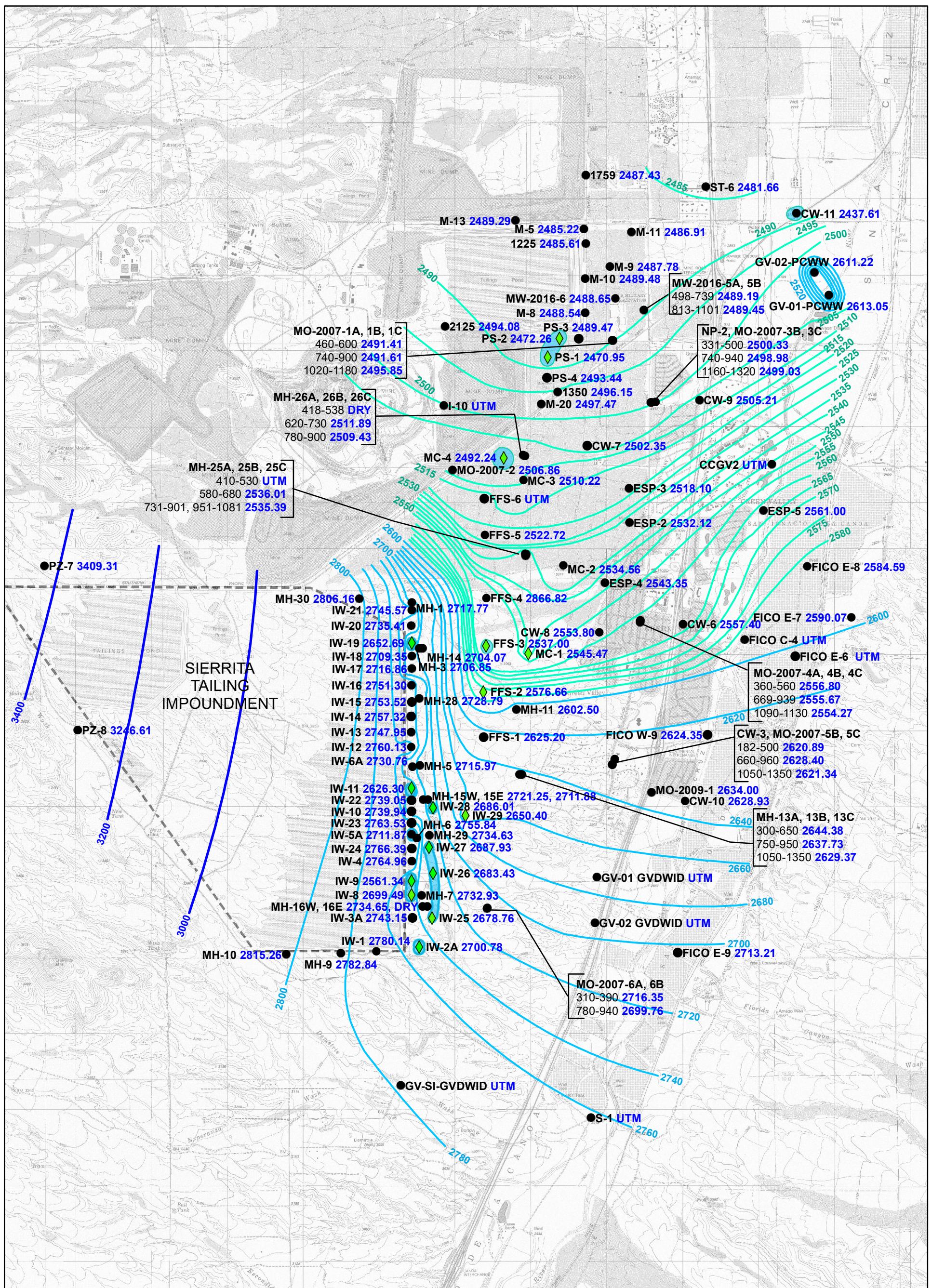












Legend

- Groundwater Depression
- 5 ft Groundwater Elevation Contour (ft amsl)
- 20 ft Groundwater Elevation Contour (ft amsl)
- 200 ft Groundwater Elevation Contour (ft amsl)
- CW-3** Well ID
2620.89 Groundwater Elevation (ft amsl)
- UTM** Unable to Measure; designation includes physical limitations, not desaturation
- Co-Located Wells
Screened Interval (ft bsl): **Groundwater Elevation (ft amsl)**

Well Symbols

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

Notes

Projection: UTM Zone 12N NAD83
ft amsl = feet above mean sea level
ft bsl = feet below land surface

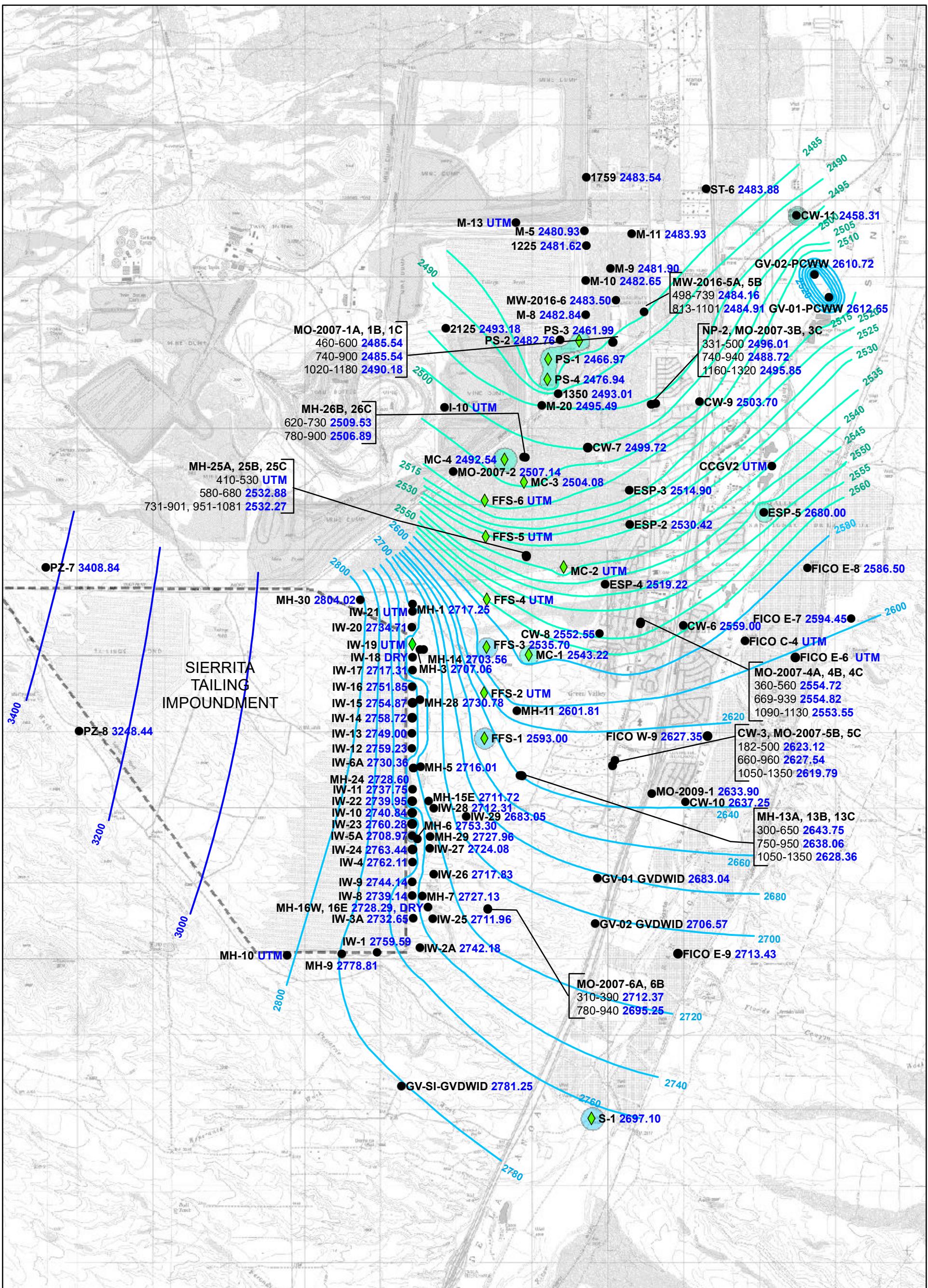
0 2,000 4,000 8,000
Feet

CLEAR CREEK ASSOCIATES

File ID
055039-245

Date
3/8/19

FIGURE 12
Groundwater Elevations,
Second Quarter 2018



Legend

- Groundwater Depression
- 5 ft Groundwater Elevation Contour (ft amsl)
- 20 ft Groundwater Elevation Contour (ft amsl)
- 200 ft Groundwater Elevation Contour (ft amsl)
- CW-3** Well ID
- 2623.12** Groundwater Elevation (ft amsl)
- UTM** Unable to Measure; designation includes physical limitations, not desaturation
- Co-Located Wells
- Screened Interval (ft bsl): **Groundwater Elevation (ft amsl)**

Well Symbols

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

Notes

Projection: UTM Zone 12N NAD83
ft amsl = feet above mean sea level
ft bsl = feet below land surface

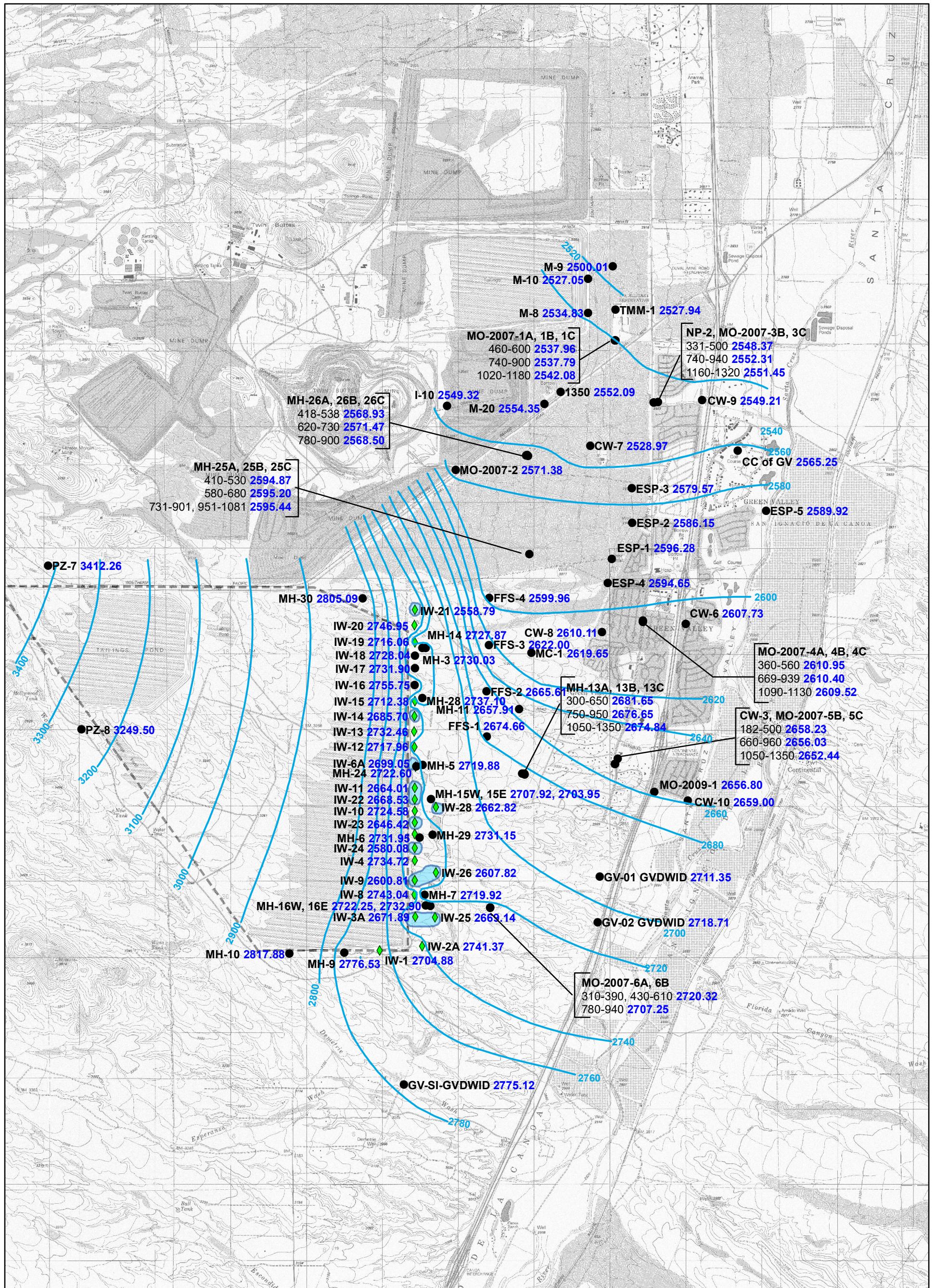
0 2,000 4,000 8,000
Feet

CLEAR CREEK ASSOCIATES

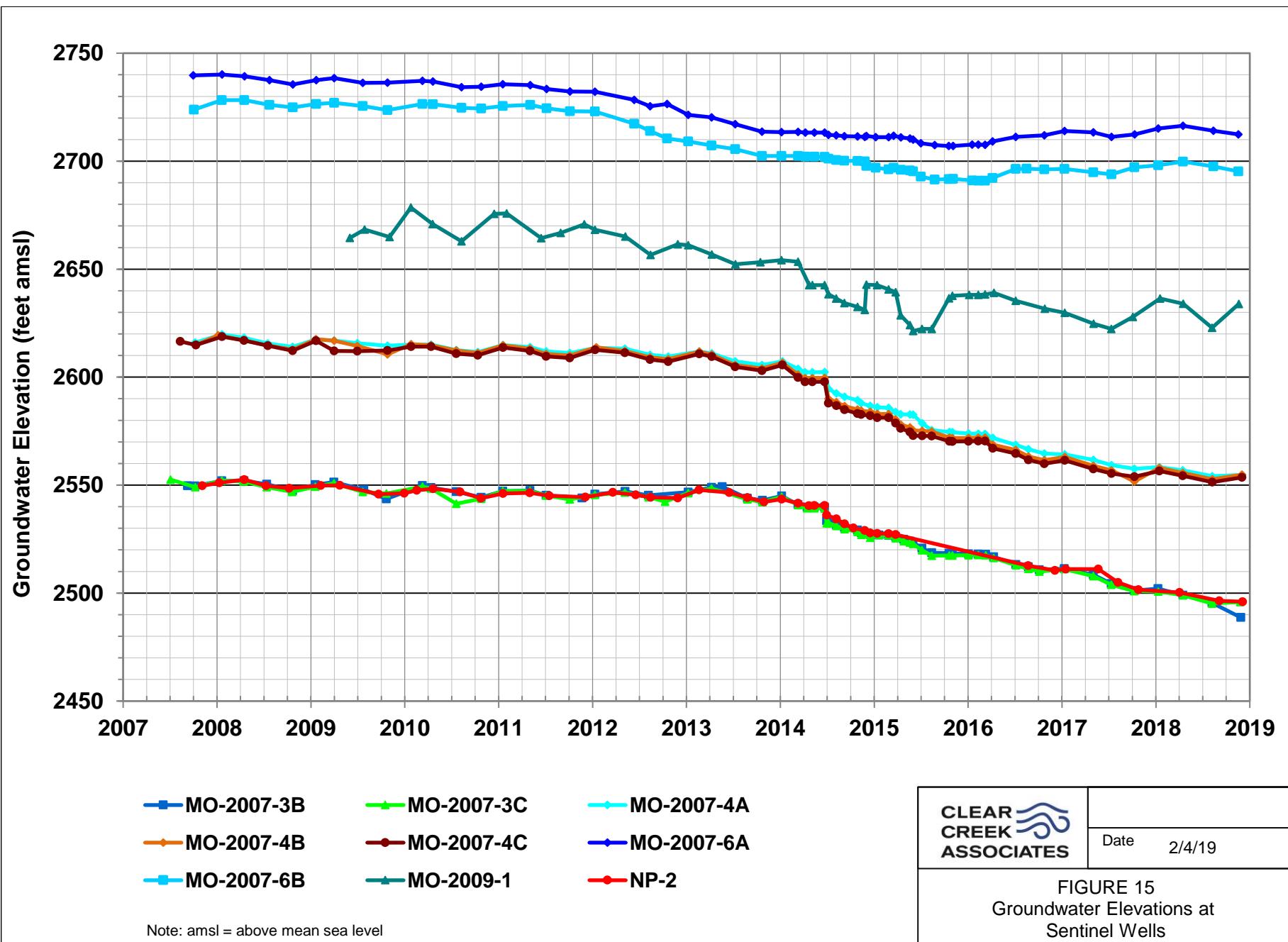
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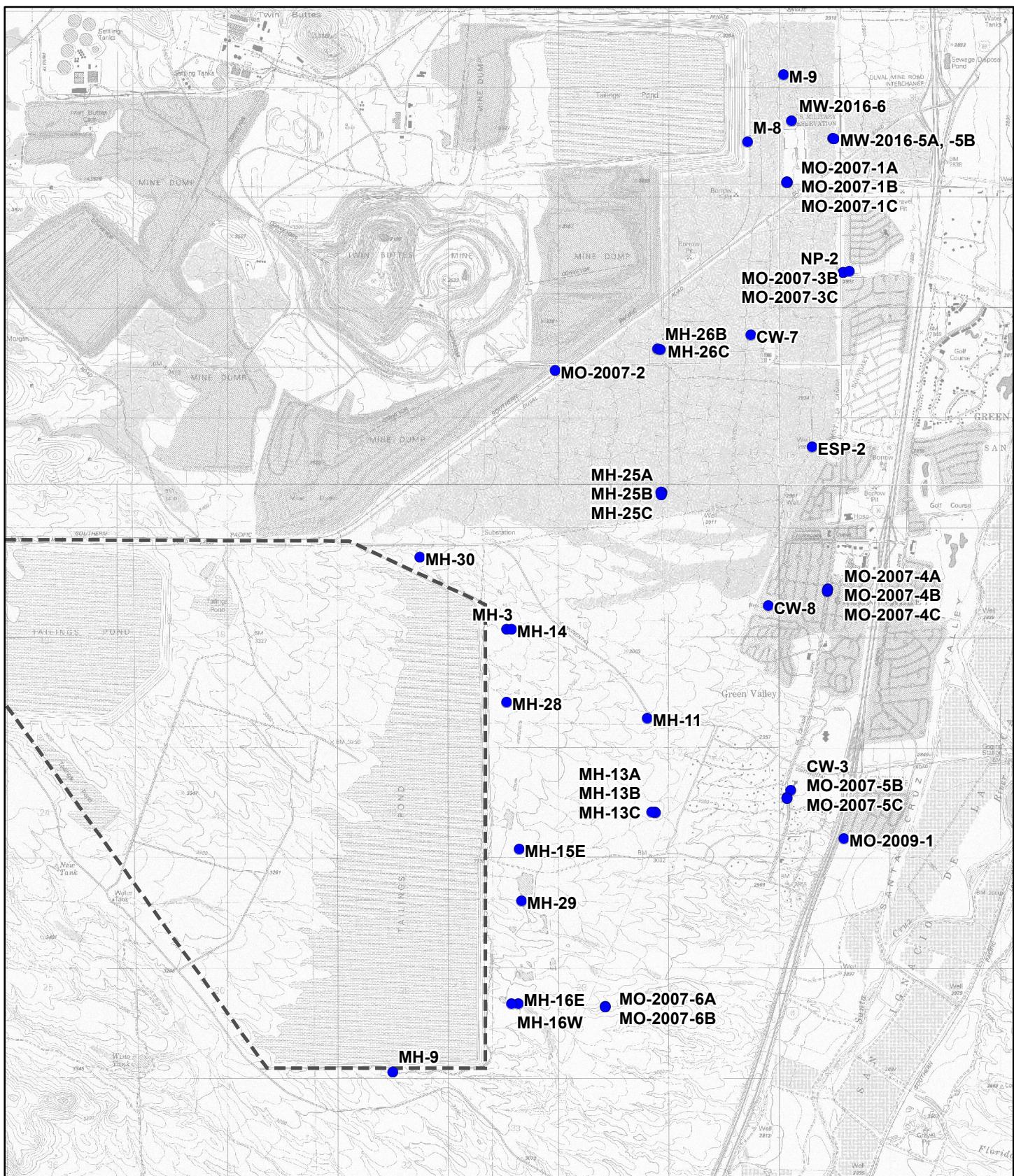
Date
4/8/19

FIGURE 13
Groundwater Elevations,
Fourth Quarter 2018



Legend	0 2,000 4,000 8,000	Date	File ID
● CW-9 Well ID	Feet	3/8/19	055039-136
2549.21 Groundwater Elevation (ft amsl)			
Groundwater Elevation Contour (ft amsl)			
Groundwater Depression			
Co-Located Wells			
Screened Interval (ft bsl): Groundwater Elevation (ft amsl)			
Well Symbols			
● Well with Static Water Level			
◆ Well with Dynamic Water Level			
	Notes		
	Projection: UTM Zone 12N NAD83 ft amsl = feet above mean sea level ft bsl = feet below land surface The groundwater elevation contour intervals are irregular.		
	FIGURE 14 Groundwater Elevations, Second Quarter 2013		





Legend

● Well with Hydrograph

Notes

Projection: UTM Zone 12N NAD83

0 2,000 4,000
Feet

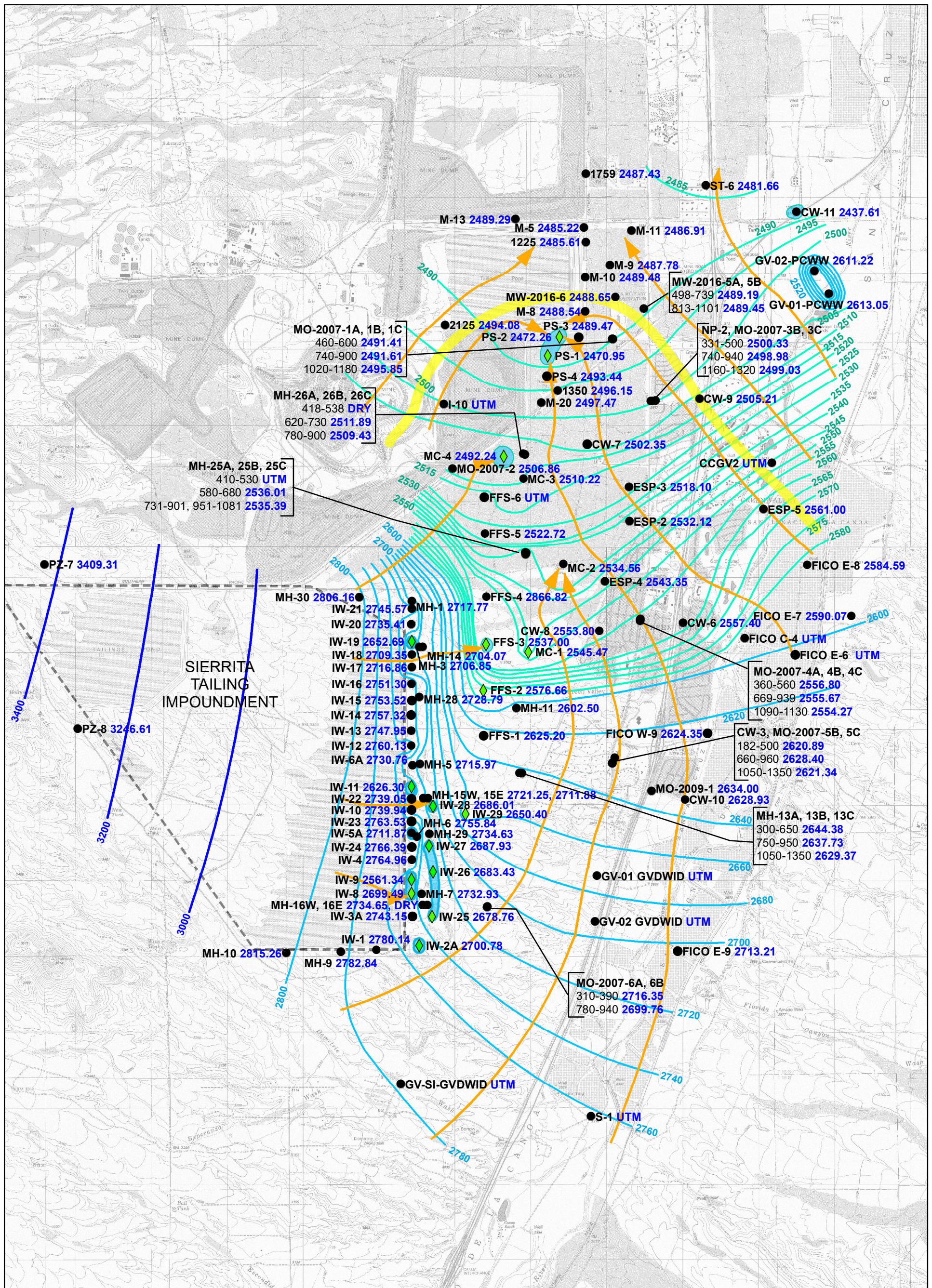
CLEAR CREEK ASSOCIATES

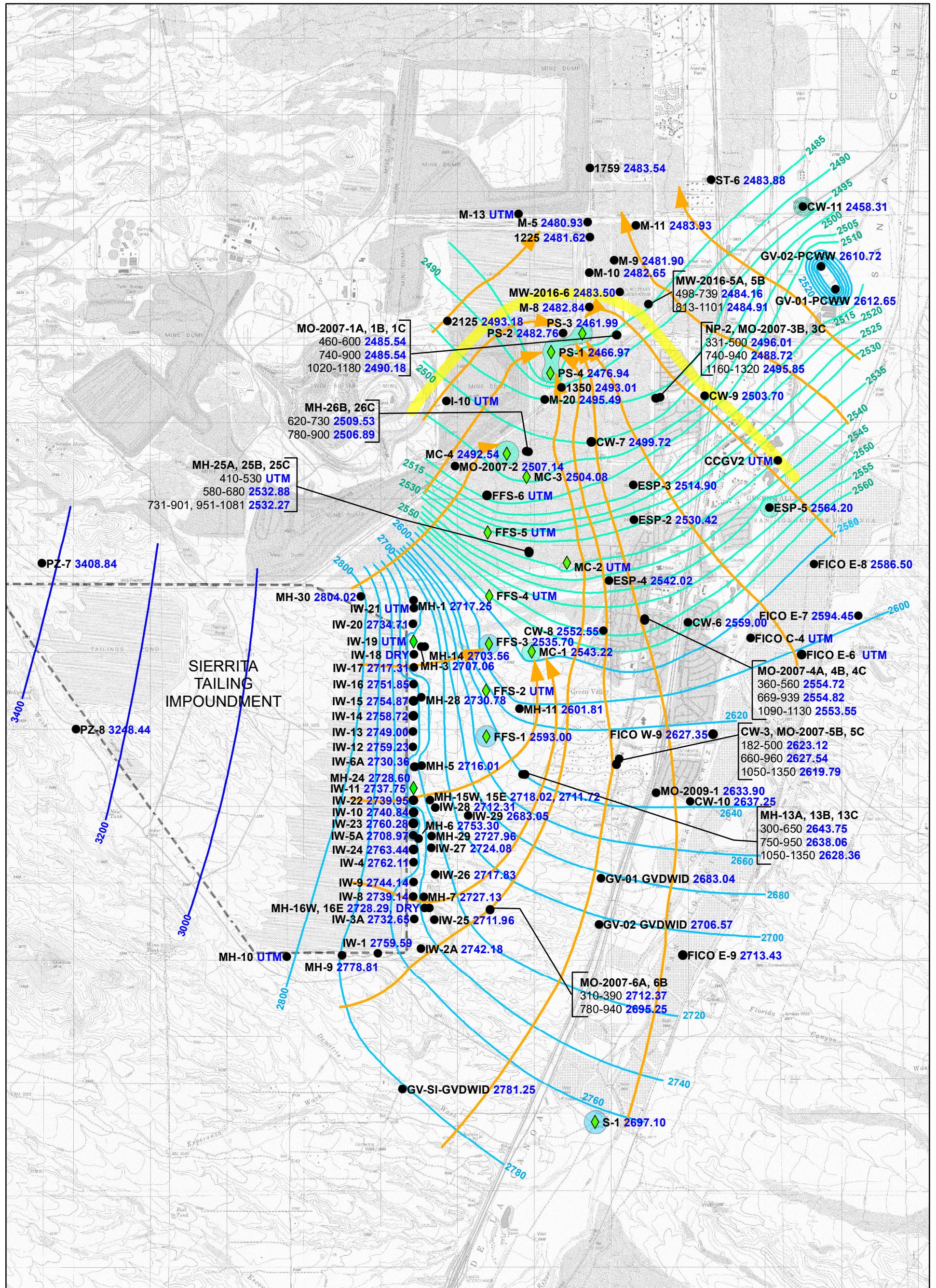
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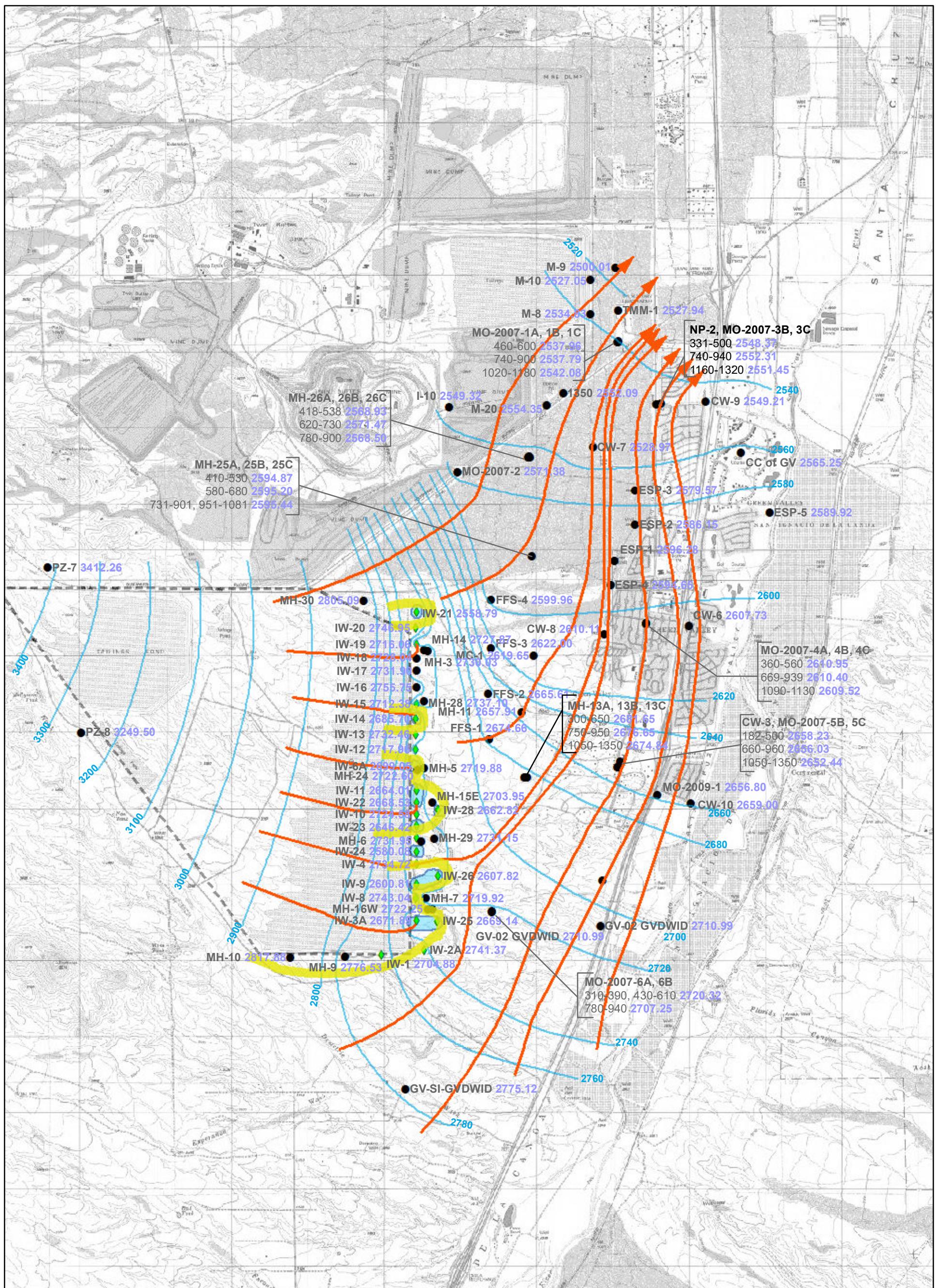
Date 3/8/19



FIGURE 16
Location of Hydrographs



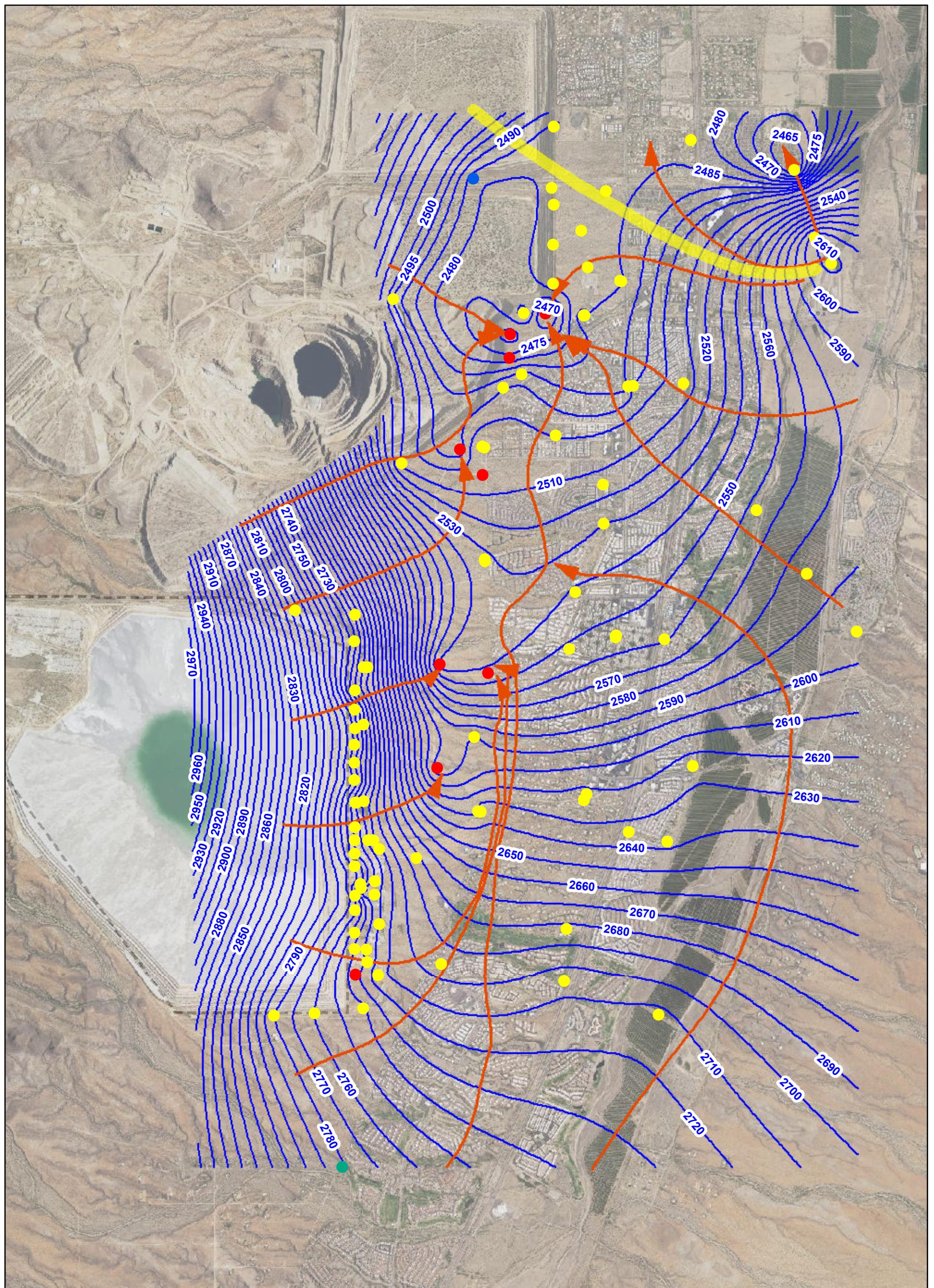




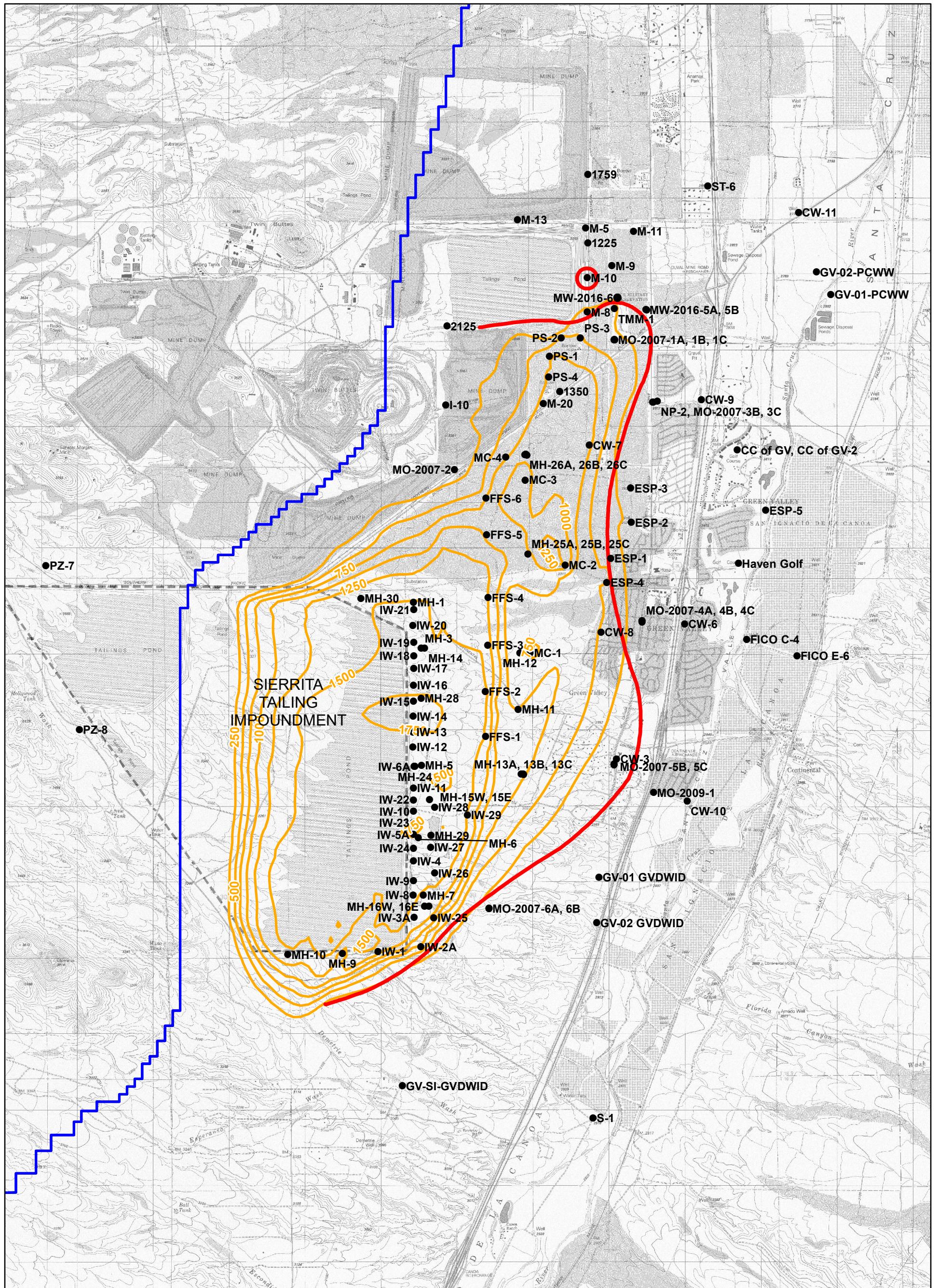
0 2,000 4,000 8,000
Feet

Date	3/30/18	File ID	55039-137
		CLEAR CREEK ASSOCIATES	

FIGURE 19
Capture Zone Analysis,
Second Quarter 2013



Legend	Notes	File ID
Water Level Measurement Condition	Projection: UTM Zone 12N NAD83 ft amsl = feet above mean sea level	055039-262
<ul style="list-style-type: none"> Dynamic Static No Information Estimated 		Date
<ul style="list-style-type: none"> Interpreted Groundwater Flowline Groundwater Elevation Contour (ft amsl) Interpreted Capture Zone 		3/15/19
N		FIGURE 20 Capture Zone Analysis, Kriged Water Elevations for Fourth Quarter 2018


Legend

- Well with ID
- Model Extents
- Simulated 2018 Sulfate Concentration (mg/L)
- Q4 2018 250 mg/L Sulfate Concentration Contour

0 2,000 4,000 8,000
Feet

Date

2/28/19

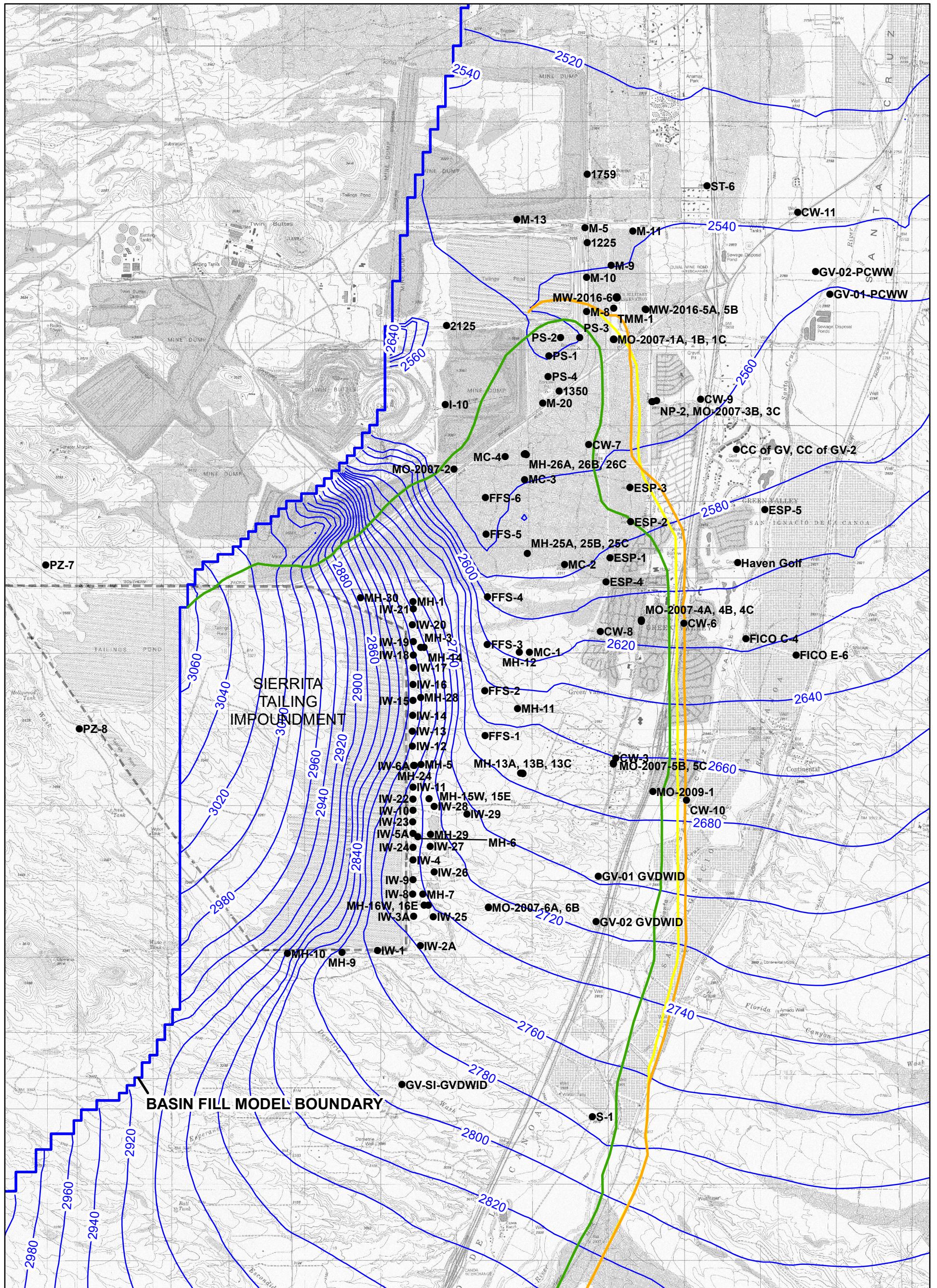
File ID

055039-263


CLEAR CREEK ASSOCIATES
Notes

Projection: UTM Zone 12N NAD83
mg/L = milligrams per liter

FIGURE 21
Simulated Sulfate Concentrations
for 2018



0 2,000 4,000 8,000
Feet

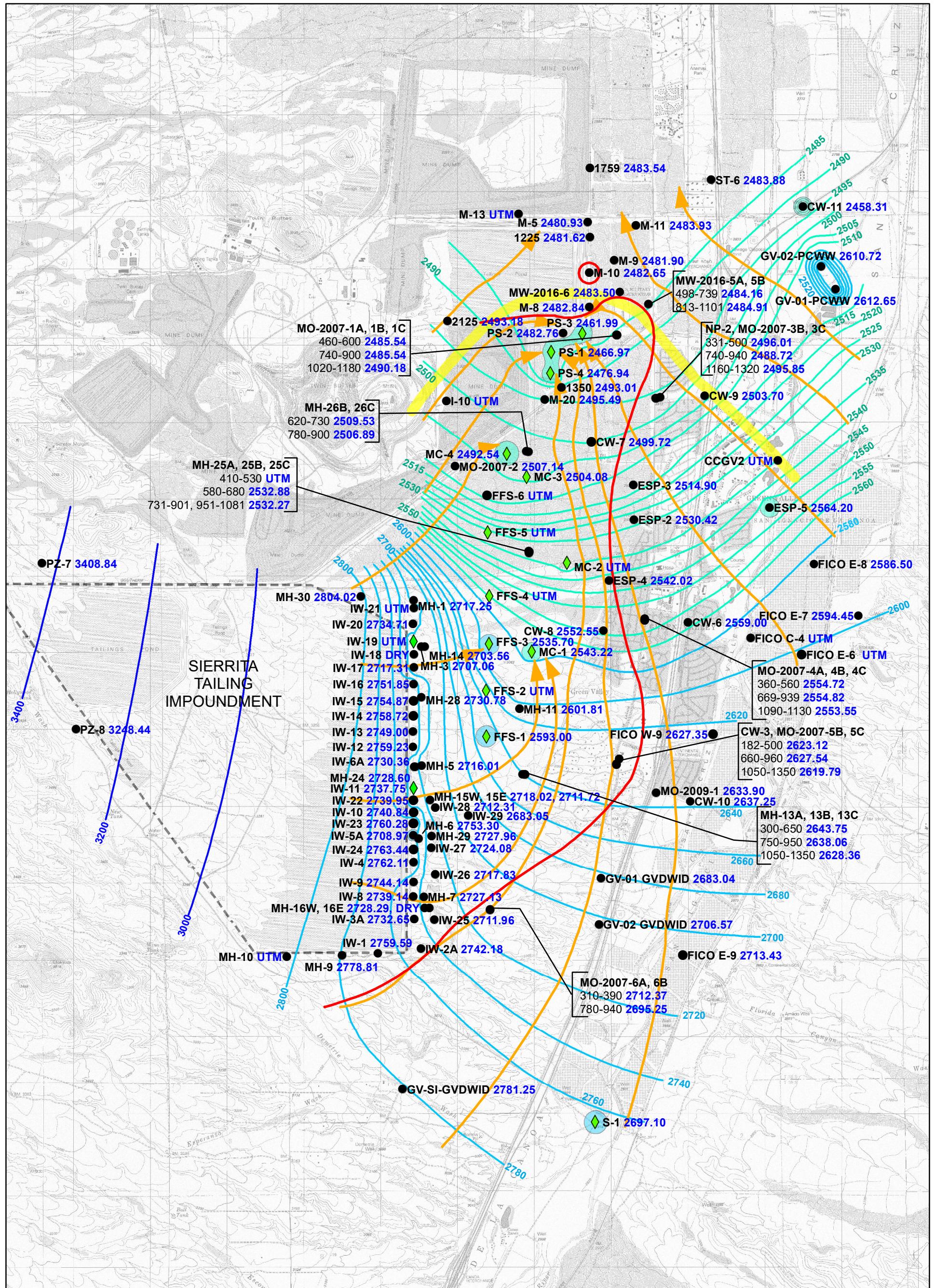
Date
2/28/19

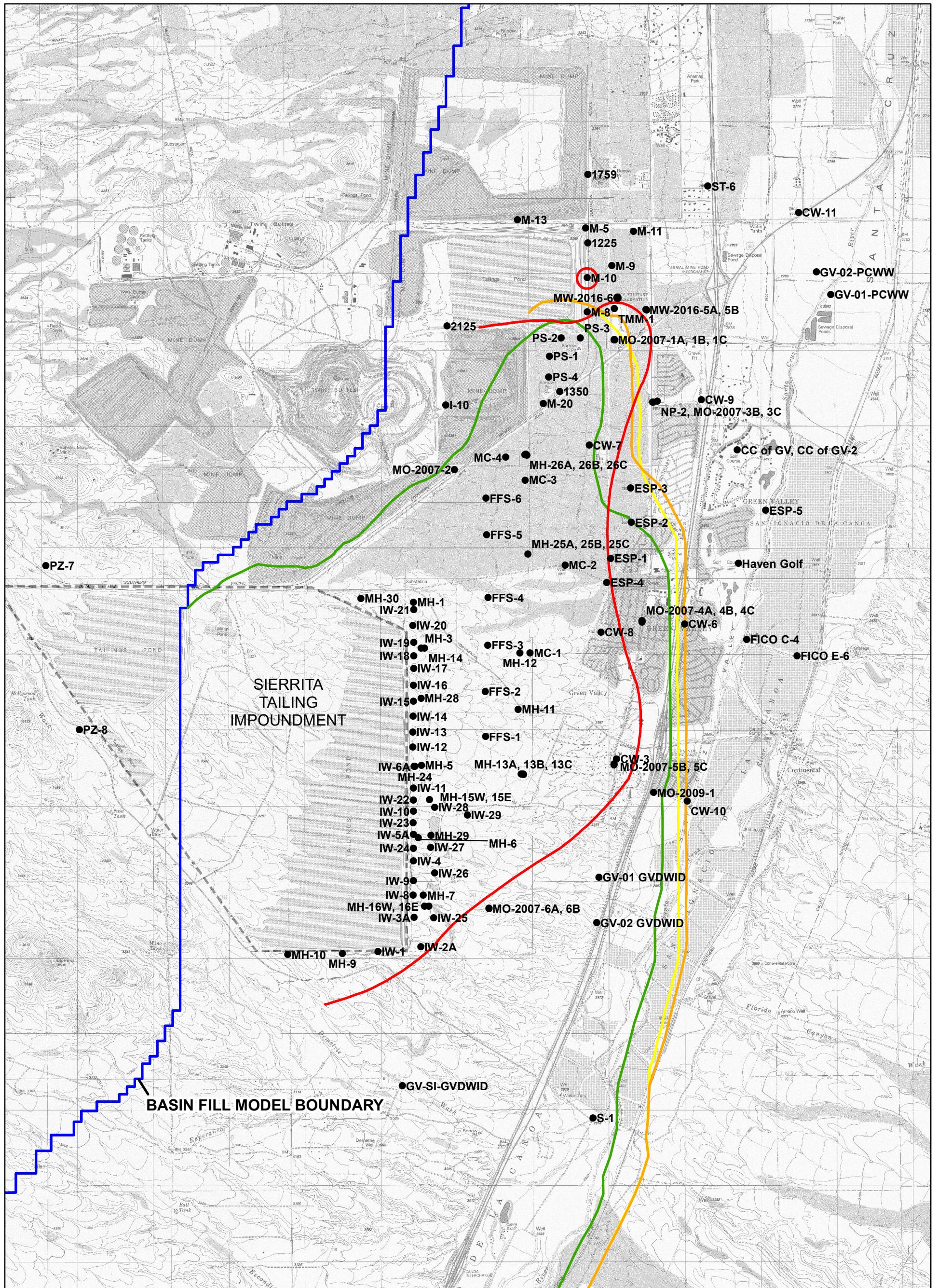
File ID
055039-264



CLEAR CREEK
ASSOCIATES

FIGURE 22
Simulated 2018
Groundwater Elevations
and Capture Zone



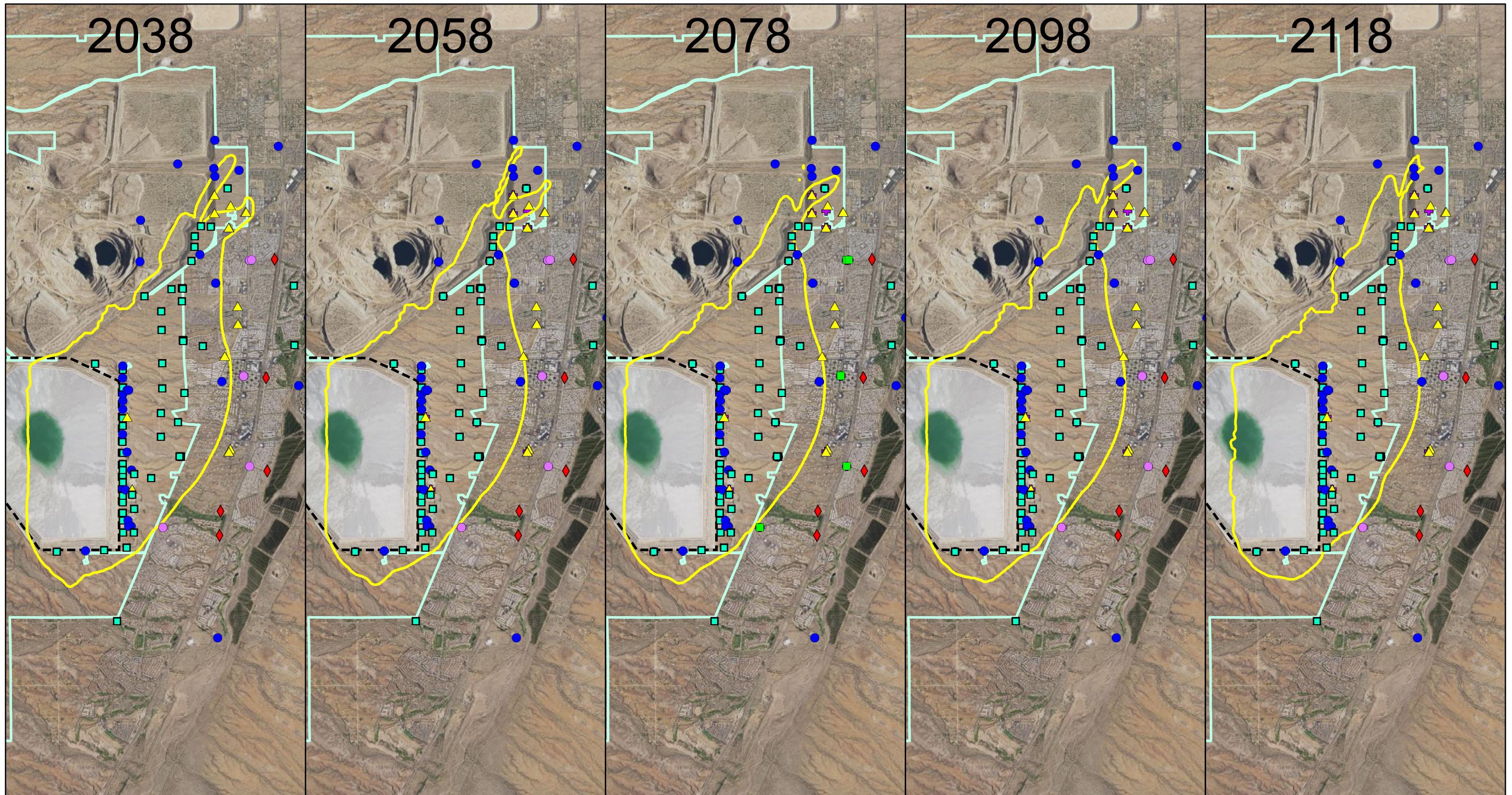


Notes

Projection: UTM Zone 12N NAD83
ft amsl = feet above mean sea level

Date	3/1/19	File ID	055039-265
		CLEAR CREEK ASSOCIATES	

FIGURE 24
Simulated and Target Capture Zones for 2018



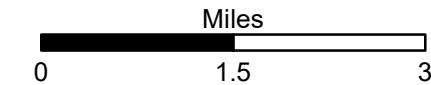
Groundwater Monitoring

- Annual Sampling and Semi-Annual Water Levels (Second and Fourth Quarters)
- 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

- 250 mg/L Contour
- Tailing Impoundment
- Sierrita Property Boundary

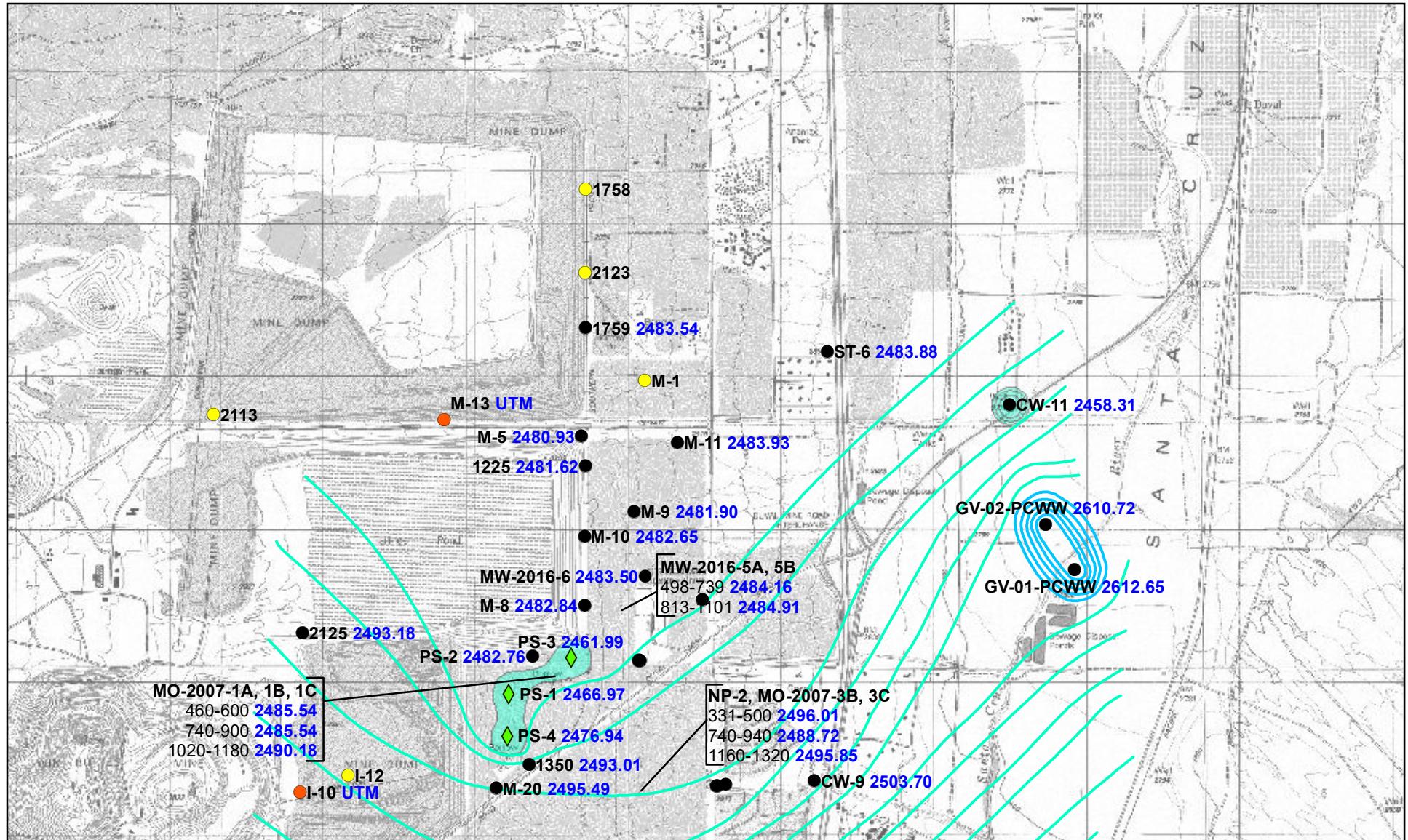
Notes

Projection: UTM Zone 12N NAD83
mg/L = milligrams per liter
Simulation Run: 3/13/19



Date	3/15/19	File ID	055039-267
			CLEAR CREEK ASSOCIATES

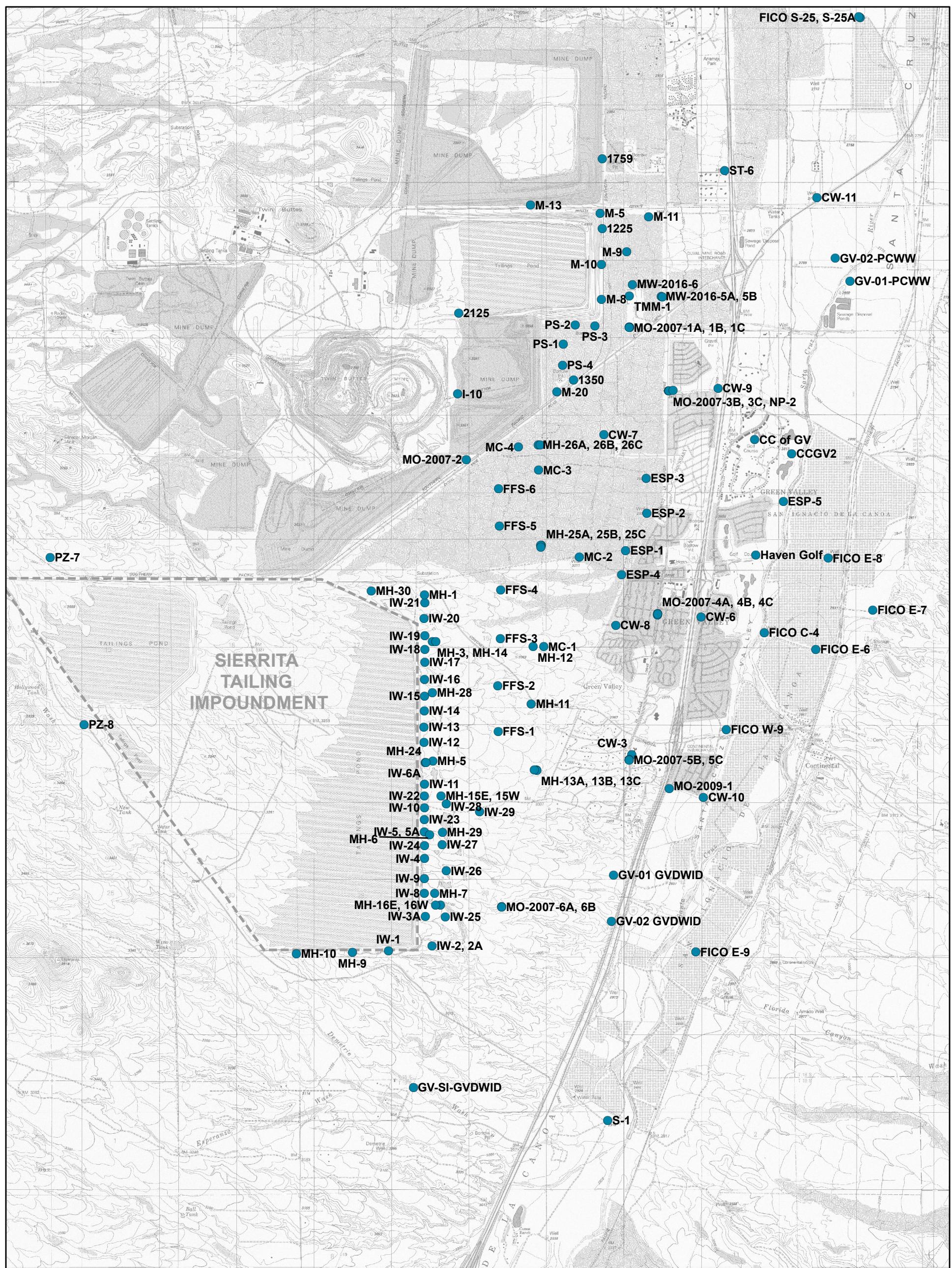
FIGURE 25
Simulated Sulfate Concentration
from 2038 to 2118
for 2018 Average Annual
Pumping Rates



Legend	Well Symbols	Date	File ID
Groundwater Depression	● Wells with Static Water Levels	4/18/19	055039-269
5 ft Groundwater Elevation Contour (ft amsl)	◆ Wells with Dynamic Water Levels		
20 ft Groundwater Elevation Contour	○ Monitoring Location Added		
CW-11 Well ID	● Monitoring Location Removed		
2458.31 Groundwater Elevation (ft amsl)	CLEAR CREEK ASSOCIATES		
UTM Unable to Measure; designation includes physical limitations, not desaturation			
Co-Located Wells	FIGURE 26		
Screened Interval (ft bsl): Groundwater Elevation (ft amsl)	Additional Groundwater Monitoring Locations		
	Notes	0 1,500 3,000	
	Projection: UTM Zone 12N NAD83		
	ft amsl = feet above mean sea level		
	ft bsl = feet below land surface	Feet	

APPENDIX A

SULFATE CONCENTRATION DATA



Legend

- Groundwater Monitoring Location

Notes

Projection: UTM Zone 12N NAD83

0 2,000 4,000 8,000
Feet

Date	4/2/18	File ID 055039-006K
		CLEAR CREEK ASSOCIATES

FIGURE A.1
Location of Groundwater Monitoring
Sites in Appendices A and C

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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	102.00
		5/11/17	7.88	24.0	597	95.7
		5/14/18	7.79	26.2	497	89.7
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
		12/6/16	7.82	24.8	498	75.2
		5/23/17	8.08	24.7	542	66.3
		11/30/17	7.92	24.7	522	23.6
		6/26/18	7.95	26.1	488	69.8
		6/26/18 DUP	7.95	26.1	488	69.7
		12/5/18	7.98	24.8	340	69.0

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/31/16	8.06	24.4	606	85.6
		1/17/17	7.72	22.4	551	75.2
		5/16/17	7.66	24.5	582	85.7
		7/20/17	7.96	24.8	496	78.9
		10/24/17	7.91	24.1	602	79.1
		2/12/18	7.94	23.2	478	71.0
		5/15/18	7.90	24.2	439	77.5
		8/7/18	7.87	25.1	450	77.3
		11/28/18	8.00	24.3	353	65.3
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

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/31/16	8.08	26.9	425.8	47.3
		1/17/17	7.74	25.6	429.8	45.6
		5/16/17	7.47	26.3	445.5	50.3
		7/20/17	7.98	27.4	412	48.3
		10/24/17	8.05	27.1	421	48.4
		2/12/18	7.94	26.1	372	45.4
		5/15/18	8.05	27.2	358	49.8
		8/7/18	7.93	27.5	367	50.5
		8/7/18 DUP	7.93	27.5	367	50.1
		11/28/18	7.93	26.9	335	52.7

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/31/16	8.27	29.5	444.6	54.7
		1/17/17	7.79	29.0	408.4	46.1
		5/16/17	7.63	30.5	470	53.0
		7/20/17	8.03	30.6	394	47.1
		10/24/17	8.23	30.3	400	46.4
		5/15/18	7.77	30.8	325	44.4
		8/7/18	8.79	31.0	328	44.4
		11/28/18	8.03	29.7	311	46.2
		11/28/18 DUP	8.03	29.7	311	47.5

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		12/4/06	NM	NM	NM	29.6
		1/3/07	7.82	28.4	377	31.3
ESP-2	623103	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
		10/4/16	7.99	29.1	406.3	30.4
		1/18/17	7.93	27.4	397.6	31.0
		5/22/17	7.98	29.2	408.5	32.6
		8/7/17	7.98	28.6	374	30.5
		10/17/17	8.08	29.3	404	30.6
		1/16/18	8.08	27.8	312	29.2
		4/5/18	7.70	29.0	325	30.4
		12/10/18	8.00	28.1	293	32.5

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/4/16	7.99	28.7	395.7	36.7
		1/18/17	7.79	27.8	406.1	35.3
		1/18/17 DUP	7.79	27.8	406.1	36.0
		5/22/17	7.90	28.4	398.5	37.4
		8/7/17	7.84	28.4	365	36.4
		10/17/17	8.08	28.9	392	36.7
		1/16/18	7.88	27.8	303	34.5
		4/5/18	7.96	29.0	320	35.7
		12/10/18	8.12	28.2	292	39.4
		12/10/18	8.12	28.2	292	39.5

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		10/4/16	7.86	27.0	1205	368
		10/4/16 DUP	7.86	27.0	1205	362
		5/22/17	7.56	27.7	1190	342
		10/17/17	7.82	28.8	1124	341
		4/5/18	7.89	27.7	920	302
		4/5/18 DUP	7.89	27.7	920	301
		12/10/18	7.85	27.3	683	332
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
		4/17/17	7.76	25.4	3339	1790
FFS-2	221663	5/10/18	7.71	27.6	2446	1820
		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
		4/17/17	7.61	26.8	3349	1820
		4/25/18	7.65	28.4	2608	1920

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		4/17/17	7.64	32.4	2831	1490
		4/26/18	7.72	31.9	2293	1530
		4/26/18 DUP	7.72	31.9	2293	1570
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
		4/17/17	7.70	32.9	2570	1310
		5/1/18	7.62	32.4	2011	1350
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
		4/17/17	7.57	30.3	2900	1500
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
		4/17/17	7.44	27.1	1367	1590
		6/29/18	7.71	29.9	2065	1310

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		11/3/16	7.98	25.3	456	36.8
		1/19/17	7.87	24.4	444.4	33.3
		5/31/17	7.79	26.5	482	30.1
		7/13/17	7.93	26.0	427	27.0
		10/25/17	8.02	26.2	401	27.2
		2/13/18	8.07	25.0	359	25.4
		5/16/18	7.86	27.0	379	26.4
		8/15/18	7.93	25.8	292	25.3
		11/28/18	8.08	24.8	312	27.3

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		11/3/16	8.00	24.2	503	44.3
		11/3/16 DUP	8.00	24.2	503	44.3
		1/19/17	7.90	22.7	496	43.6
		5/15/17	7.64	24.3	462	37.6
		7/13/17	8.00	24.1	480	37.7
		10/25/17	8.00	24.4	455	37.7
		2/13/18	7.90	23.5	426	36.2
		5/16/18	7.93	23.8	413	41.8
		11/28/18	7.96	23.7	358	47.6

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		5/15/17	7.76	27.6	418.1	7.52
		5/16/18	8.06	27.3	343	6.60
		5/16/18 DUP	8.06	27.3	343	6.56
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	101.0
		5/11/17	7.73	23.7	583	91.6
		5/11/17 DUP	7.73	23.7	583	87.7
		5/14/18	7.72	25.4	501	91.0
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

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/4/16	7.64	28.6	2805	1270
		4/19/17	7.77	29.4	2821	1450
		4/19/17 DUP	7.77	29.4	2821	1440
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
		10/4/16	7.87	28.3	1016	269
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
		4/19/17	7.79	27.2	3450	1900

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Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/4/16	7.69	26.3	3542	1770
		4/24/18	7.67	26.1	2686	1870
		4/24/18 DUP	7.67	26.1	2686	1750
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

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/4/16	7.75	24.5	3722	1830
		4/19/17	7.88	24.7	3538	1970
		4/24/18	7.81	24.4	2812	1950
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
		4/24/18	7.78	25.9	2754	1810
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
		10/3/16	7.42	23.3	3805	1930
		4/19/17	7.83	23.3	3532	1970
		4/24/18	7.67	23.9	2810	1960

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/3/16	7.55	24.6	3654	1780
		4/18/17	7.61	25.1	3462	1830
		4/18/17 DUP	7.61	25.1	3462	1860
		4/24/18	7.69	23.2	2642	1810
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
		10/3/16	7.67	26.7	3372	1650
		4/18/17	7.73	26.7	3205	1680
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

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		4/18/17	7.74	26.2	3587	1980
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
		10/3/16	7.73	26.1	3781	1880
		4/18/17	7.66	27.5	3429	1940
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
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

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
IW-19	545562	4/29/10	6.63	23.7	1455	1600
		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
		10/3/16	7.67	26.0	3666	1790
IW-20	545563	10/3/16 DUP	7.67	26.0	3666	1800
		4/18/17	7.53	26.9	3467	1890
		4/24/18	7.61	26.2	2667	1870
		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

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		10/3/16	7.55	29.7	3446	1700
		4/24/18	7.46	29.2	2412	1710
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
		10/3/16	7.52	24.6	3751	1730
		4/18/17	7.64	25.6	3534	1890
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

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		10/3/16	7.63	26.1	3684	1760
		4/19/17	7.85	24.7	3475	1910
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
		10/4/16	7.60	27.9	2927	1300
		4/19/17	7.80	29.3	2638	1320
		4/24/18	7.69	29.2	2262	1440
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
		10/4/16	7.61	29.9	3243	1440
		4/19/17	7.85	22.0	3345	1780
		4/24/18	7.68	26.6	2664	1770
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
		10/3/16	7.45	25.6	3624	1790
		4/19/17	7.75	25.4	3363	1810
IW-28	219137	4/24/18	7.60	25.7	2671	1830
		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
		10/3/16	7.53	26.0	3583	1740
IW-29	222865	4/19/17	7.73	25.9	3398	1860
		4/24/18	7.72	25.5	2699	1820
		5/12/14	NM	NM	NM	1680
		4/1/15	7.28	26.5	1758	1750
		10/3/16	7.53	26.4	3459	1630
		4/19/17	7.80	26.1	3254	1750
		4/24/18	7.67	25.9	2606	1760

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		10/27/16	8.12	26.8	453	35.0
		1/17/17	8.22	25.1	417	29.8
		5/8/17	8.04	26.8	571	32.4
		7/10/17	8.02	27.4	449	34.0
		10/2/17	8.08	26.9	537	40.3
		1/9/18	8.15	26.1	956	267.0
		3/29/18	8.08	27.4	540	130
		5/9/18	7.88	27.8	477	102
		11/6/18	8.33	27.1	311	55.8
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
		1/11/17	8.38	23.2	234	3.0
		5/8/17	8.38	24.5	198.3	<1
		7/10/17	8.30	27.9	231	<0.5
		10/2/17	8.20	27.0	279	<0.4
		1/9/18	8.33	25.4	141	1.58
		5/9/18	8.17	27.4	305	3.10

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		12/5/16	8.57	27.9	723	176
		1/17/17	8.70	27.4	756	202
		5/8/17	8.72	26.5	712	174
		7/10/17	8.73	28.3	493	135
		10/2/17	8.04	26.4	610	154
		10/2/17 DUP	8.04	26.4	610	154
		1/9/18	8.83	26.1	541	159
		1/9/18 DUP	8.83	26.1	541	168
		5/9/18	8.75	27.0	522	154
		11/6/18	8.58	29.4	673	297
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
		5/8/17	8.88	26.7	2892	1470
		6/21/18	7.90	28.3	1667	824

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		4/17/17	7.72	27.7	3156	1680
		4/26/18	7.64	27.8	2592	1680
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
		4/18/17	7.66	29.4	2301	1010
		5/2/18	7.70	28.1	1783	1000
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
		4/17/17	7.50	26.5	1461	1370
		4/17/17 DUP	7.50	26.5	1461	1370
		6/29/18	7.77	28.4	2194	1340
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
		4/17/17	7.46	27.4	1277	1340
		5/1/18	7.70	29.2	2157	1370

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		5/4/17	7.72	27.4	2722	1580
		4/23/18	7.63	27.2	2692	1480
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
		5/10/17	7.82	27.0	2807	1640
		5/2/18	7.58	26.8	2670	1290
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
		6/22/17	7.54	27.0	3641	1820

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		5/1/17	8.83	27.0	2410	1050
		5/8/18	8.62	29.4	1732	849
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
		5/1/17	8.89	26.8	286.4	1.18
		5/8/18	8.69	29.7	289	24.4
MH-14	528098	4/21/15	7.35	26.6	1459	1650
		3/9/17	7.67	24.3	3276	1840
		4/3/17	7.47	26.6	2207	1360
		7/11/17	7.64	25.5	2890	1830
		10/18/17	7.75	27.4	2993	1770
		4/10/18	7.42	28.4	2572	1830
MH-15W	528093	3/9/17	7.81	22.1	3301	1800
		3/9/17 DUP	7.81	22.1	3301	1720
		4/4/17	7.39	24.1	2436	1490
		7/11/17	7.63	22.9	3220	1740
		10/19/17	7.86	24.0	3040	1830
		4/11/18	7.16	25.7	2765	1830
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
		3/9/17	7.54	24.7	3350	1900
		4/4/17	7.68	23.5	1184	1770
		4/4/17 DUP	7.68	23.5	1184	1900
		7/11/17	7.70	25.2	3044	1930
		10/19/17	8.06	26.2	2457	1480
		4/11/18	7.27	26.9	2622	1860

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		5/2/17	8.20	25.7	349.1	10.00
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
		5/2/17	8.32	27.1	2258	1040
		5/2/18	8.61	26.4	1787	916
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
		5/2/17	8.27	29.4	2460	1210
		5/2/18	8.37	27.4	2196	1060

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		11/13/06	NM	NM	NM	1560
		1/15/07	7.53	26.4	1310	1590
MH-26B	208427	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
MH-26C	208428	9/21/16	8.14	28.1	3510	1720
		5/2/17	9.86	25.8	2810	1420
		5/3/18	9.52	26.3	2120	1180
		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
		5/2/17	8.82	28.7	2480	1130
		5/3/18	8.29	28.7	1959	1080
		5/3/18 DUP	8.29	28.7	1959	1130

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Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/26/16	7.60	27.0	3710	1950
		1/10/17	7.64	25.3	3483	1890
		4/5/17	7.70	25.6	3591	1800
		7/6/17	7.70	25.1	3679	1940
		10/11/17	7.70	25.7	2920	1960
		4/10/18	7.76	25.8	2735	1970
		8/7/18	7.56	26.8	1844	1970
		10/16/18	7.53	25.1	2213	1680
		10/16/18 DUP	7.53	25.1	2213	1670

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		3/9/17	7.54	22.7	3390	1900
		4/5/17	7.53	23.9	3436	1800
		7/6/17	7.56	24.3	3530	1870
		7/6/17 DUP	7.56	24.3	3530	1850
		10/11/17	7.43	24.5	2843	1880
		10/11/17 DUP	7.43	24.5	2843	1880
		4/10/18	7.54	24.0	2573	1920
		8/7/18	7.45	24.3	2118	2020
		10/16/18	7.26	23.7	1936	1630
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
		6/1/17	7.44	29.1	3551	1780
		4/11/18	7.37	28.8	2843	1860

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/5/16	7.86	27.2	388	17.2
		3/22/17	7.80	26.7	384.7	18.2
		6/6/17	7.75	27.4	393	18.6
		10/5/17	7.87	26.9	363	17.0
		10/5/17 DUP	7.87	26.9	363	16.6
		4/12/18	8.17	26.8	307	17.2
		4/12/18 DUP	8.17	26.8	307	17.0
		11/19/18	7.72	27.1	302	18.9
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
		10/5/16	8.88	27.5	2067	948
		3/22/17	8.20	27.8	2264	985
		6/6/17	8.50	27.6	1906	886
		10/5/17	8.32	27.5	1932	950
		4/12/18	8.28	27.3	1306	713
		11/19/18	8.18	28.2	1021	670

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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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	3/22/17	9.65	28.4	271.0	318
		6/6/17	8.47	27.6	811	288
		10/5/17	8.27	28.3	419	152
		4/12/18	8.20	27.5	249	29.6
		11/19/18	8.47	28.5	647	317
		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
		4/20/17	8.50	30.6	748	245
		4/19/18	7.92	27.3	973	371

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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 DUP	7.69	28.1	379	42.4
		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
		10/5/16	8.38	27.3	422	34.9
		10/5/16 DUP	8.38	27.3	422	34.3
		1/10/17	8.88	26.0	229	<0.5
		1/10/17 DUP	8.88	26.0	229	<0.5
		5/3/17	8.82	26.7	260.0	<0.5
		7/12/17	8.99	27.0	221	<0.5
		10/9/17	8.25	27.9	472	37.5
		1/10/18	8.29	25.5	243	<0.4
		4/17/18	8.45	27.9	397	39.1
		8/8/18	8.07	28.2	346	39.0
		11/28/18	8.17	26.5	238	4.79

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/5/16	9.79	27.5	428	28.4
		1/10/17	9.90	25.6	384	28.6
		5/3/17	9.07	27.4	359.8	30.0
		7/12/17	9.03	29.4	447	49.9
		10/9/17	9.14	26.2	467	45.1
		1/11/18	9.35	25.2	390	27.2
		4/17/18	8.97	27.4	353	36.5
		8/8/18	8.74	26.4	364	39.3
		11/26/18	8.83	26.3	352	28.7

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Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/25/16	7.75	25.2	453	39.2
		1/12/17	7.90	24.3	438	38.8
		1/12/17 DUP	7.90	24.3	438	38.8
		5/3/17	7.91	25.1	464	38.5
		7/13/17	7.81	25.7	438	33.8
		7/13/17 DUP	7.81	25.7	438	33.7
		10/10/17	7.89	25.5	418	34.7
		1/15/18	7.93	25.1	350	32.8
		4/16/18	8.00	25.0	374	35.3
		8/9/18	7.87	25.5	388	35.2
		12/3/18	7.73	25.6	318	37.4

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Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/25/16	8.75	26.0	221.8	<0.5
		10/25/16 DUP	8.75	26.0	221.8	<0.5
		1/12/17	8.49	24.2	237	3.35
		5/3/17	8.52	25.4	290.0	5.02
		7/13/17	8.86	25.7	221	<0.5
		10/10/17	8.97	26.3	289	<0.4
		1/15/18	8.39	26.4	370	37.2
		4/16/18	8.10	25.9	242	18.6
		8/9/18	8.48	26.5	203	7.9
		12/3/18	8.02	27.3	337	44.9

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/25/16	9.71	27.2	512	62.3
		1/12/17	9.18	25.6	496	55.6
		5/3/17	9.17	26.2	515	52.3
		7/13/17	9.15	26.4	511	53.0
		10/10/17	8.55	25.9	566	50.6
		1/15/18	9.16	25.5	486	48.5
		1/15/18 DUP	9.16	25.5	486	48.3
		4/16/18	8.08	26.2	425	48.8
		8/9/18	8.89	27.5	412	56.4
		12/3/18	8.36	28.8	474	91.1

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Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/26/16	8.38	26.9	1379	463
		5/2/17	9.07	27.5	1352	460
		7/12/17	8.89	26.6	1220	429
		10/4/17	8.77	26.7	1211	465
		4/18/18	8.43	29.0	1284	529
		11/20/18	8.25	28.6	1083	607
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
		10/26/16	9.85	27.1	726	80.6
		5/2/17	9.85	28.1	791	106
		5/2/17 DUP	9.85	28.1	791	110
		7/12/17	9.04	26.3	787	116
		10/4/17	9.10	28.6	760	133
		4/18/18	9.60	28.0	582	144
		11/20/18	9.81	26.2	653	160

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/25/16	8.51	27.8	250	4.22
		1/11/17	8.48	27.4	283	7.15
		5/3/17	8.78	27.4	321.4	4.32
		7/13/17	8.67	28.3	267	3.57
		10/11/17	8.45	28.4	357	5.73
		1/11/18	8.65	25.9	231	7.33
		4/17/18	8.21	26.9	316	7.75
		8/13/18	8.34	28.3	281	6.63
		11/19/18	8.39	27.5	206	2.42
		11/19/18 DUP	8.39	27.5	206	2.38

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/25/16	9.48	28.8	306	12.5
		1/11/17	9.38	28.5	350	12.3
		5/3/17	8.91	28.1	306.1	13.6
		7/13/17	9.12	28.5	393	22.9
		10/10/17	8.84	29.4	418	31.2
		1/11/18	9.10	27.3	317	23.7
		4/17/18	8.51	30.1	407	54.0
		8/13/18	8.49	29.3	310	24.5
		11/19/18	8.53	32.1	345	53.6

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		10/26/16	9.30	26.0	243	17.1
		1/12/17	8.59	26.1	363	29.7
		5/4/17	8.83	26.6	298.4	13.7
		5/4/17 DUP	8.83	26.6	298.4	13.6
		7/12/17	8.97	26.5	327	20.2
		10/4/17	8.81	25.9	291	40.3
		1/18/18	8.83	26.6	352	33.7
		4/18/18	8.64	28.5	472	103
		4/18/18 DUP	8.64	28.5	472	101
		8/8/18	8.84	26.6	373	66.7
		11/20/18	8.97	26.4	834	86.4
MW-2016-5A	919635	8/10/16	7.59	26.2	394.4	27
		10/6/16	7.83	26.7	381	24.1
		1/11/17	7.85	25.9	408.2	27.6
		5/9/17	8.00	26.1	383.1	28.6
		7/11/17	8.03	26.7	435	22.2
		7/11/17 DUP	8.03	26.7	435	22.1
		10/3/17	8.02	26.4	362	22.5
		1/10/18	7.93	25.4	351	25.9
		5/10/18	8.30	26.7	336	22.8
		5/10/18 DUP	8.30	26.7	336	22.8
		8/13/18	7.90	26.9	319	22.1
		11/5/18	8.08	26.8	259	21.4

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
MW-2016-5B	919472	8/4/16	7.82	29.4	373.4	46
		10/6/16	8.18	28.2	438	63.3
		1/11/17	8.07	27.5	433	59.6
		5/31/17	9.14	26.8	354	45.4
		7/11/17	8.81	27.6	354	51.1
		10/3/17	8.66	27.7	465	56.1
		1/10/18	8.42	26.3	350	49.3
		5/10/18	8.41	27.8	298	41.9
		8/13/18	8.40	27.9	403	58.7
		11/5/18	8.16	29.3	358	64.8
MW-2016-6	919676	8/16/16	7.59	28.4	1236	490
		10/6/16	7.85	28.2	714	234
		1/11/17	7.83	26.4	432	67
		5/9/17	8.54	28.1	876	228
		7/10/17	9.03	27.8	474	117
		10/3/17	8.32	28.5	718	127
		1/10/18	8.25	26.0	302	60.8
		5/10/18	8.26	27.7	496	61.2
		8/13/18	8.14	28.3	399	77.1
		11/5/18	7.91	27.6	574	238

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Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
NP-2	605898	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
		12/5/16	7.90	25.3	489	38.6
		1/16/17	8.03	23.7	406	38.2
		5/23/17	7.87	23.7	401	30.2
		5/23/17 DUP	7.87	23.7	401	30.2
		8/8/17	7.86	25.9	443	46.2
		8/8/17 DUP	7.86	25.9	443	46.1
		10/26/17	8.02	25.7	425	43.0
		4/4/18	7.80	26.4	362	41.1
		9/5/18	8.03	26.1	394	44.5
		12/5/18	8.08	25.0	320	46.6

APPENDIX A
Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
		4/18/17	7.84	27.3	2468	1190
		4/26/18	7.71	27.2	2050	1230
		2/3/14	7.01	25.1	1935	1080
		2/3/14 DUP	7.01	25.1	1935	1090
PS-2	220862	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
		4/18/17	7.75	27.5	2160	991
		4/26/18	7.70	27.0	1781	999
		2/3/14	7.04	25.3	1810	975
		4/14/14	7.57	26.7	1270	996
PS-3	220863	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
		4/18/17	7.73	27.3	2073	955
		4/26/18	7.63	27.3	1630	900
		2/3/14	7.07	25.2	2570	1280
PS-4	220864	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
		5/15/17	7.43	27.4	2620	1260
		6/29/18	7.84	27.5	1673	1250

APPENDIX A
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Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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
		5/9/17	7.62	23.1	1319	466
		5/2/18	7.66	24.2	1152	478
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
		5/9/17	7.92	24.9	1358	603
		5/2/18	7.70	24.2	1168	642

APPENDIX A

Sulfate Concentration Data

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance ($\mu\text{S}/\text{cm}$)	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

$\mu\text{S}/\text{cm}$ = microsiemens per centimeter

mg/L = milligrams per Liter

NA = not analyzed

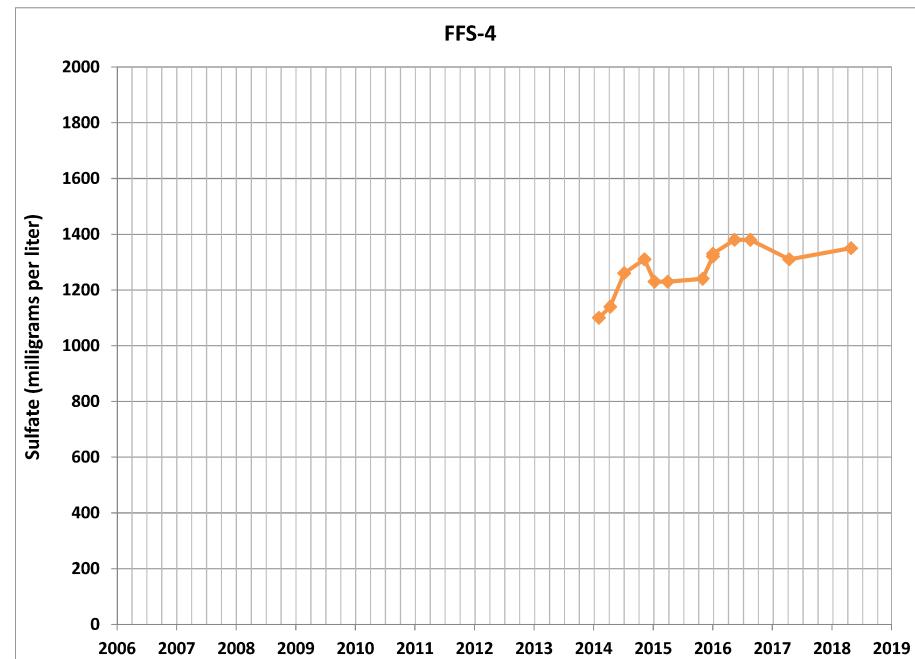
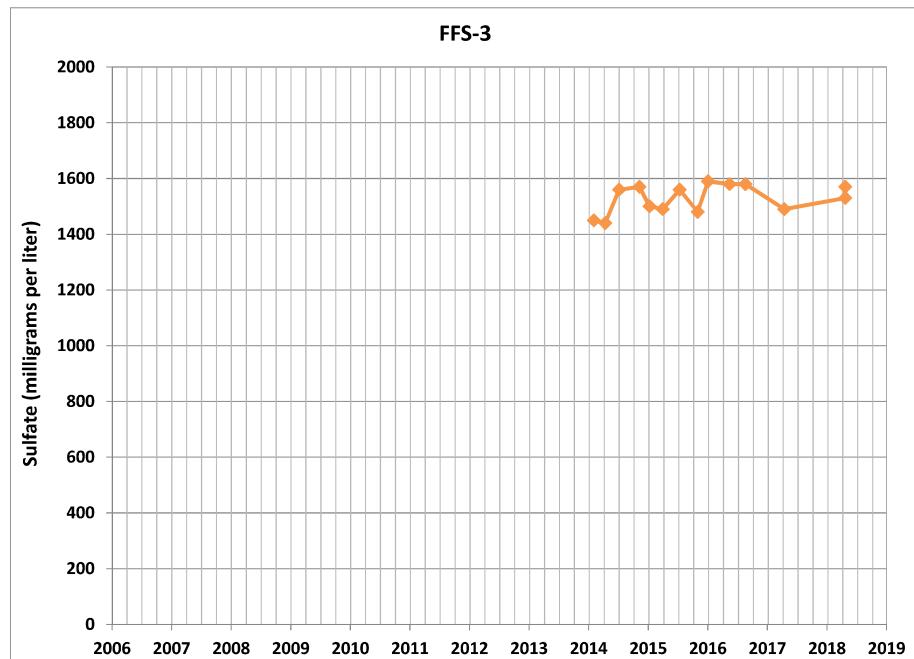
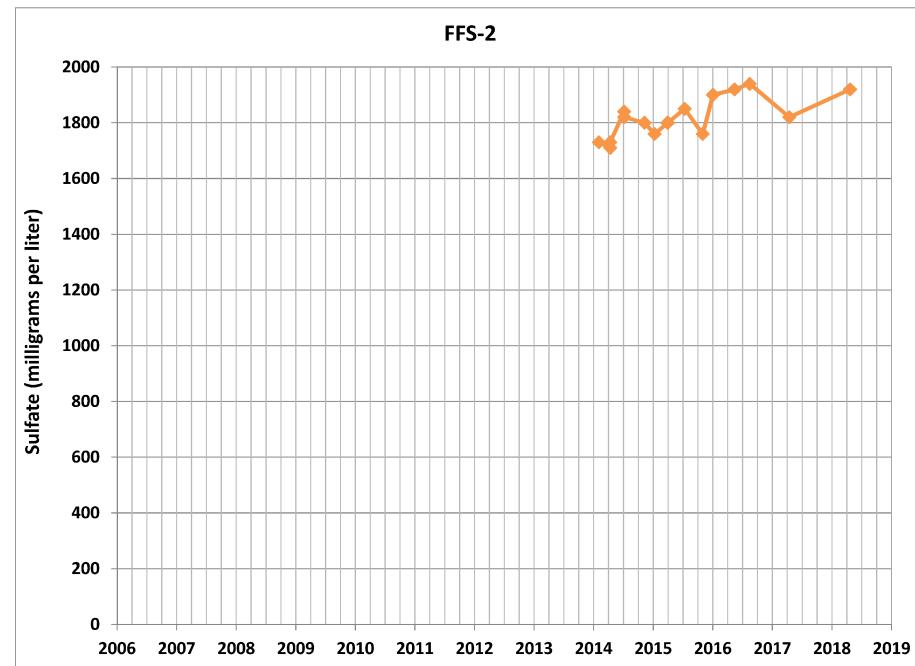
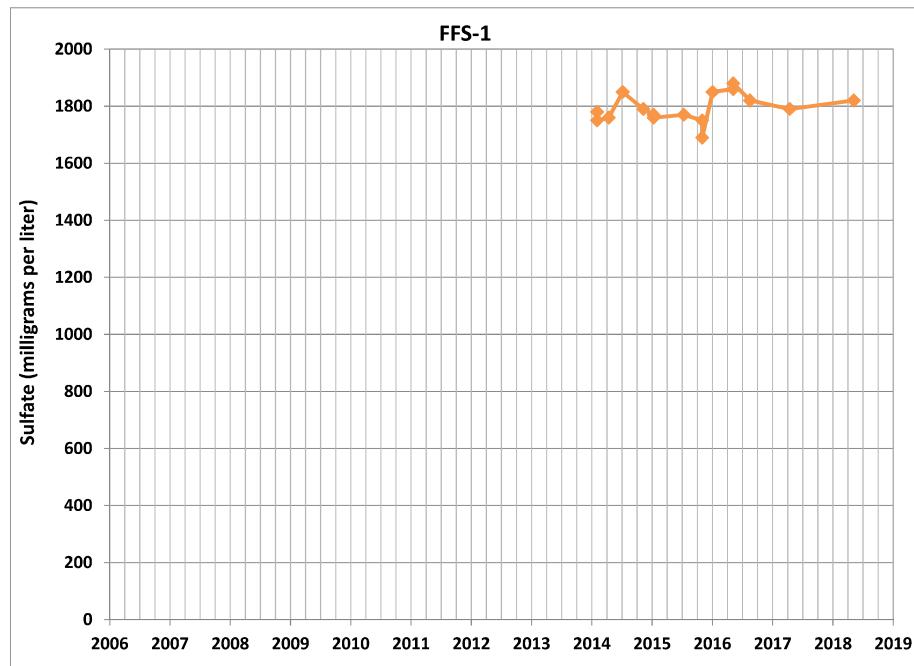
NM = not measured

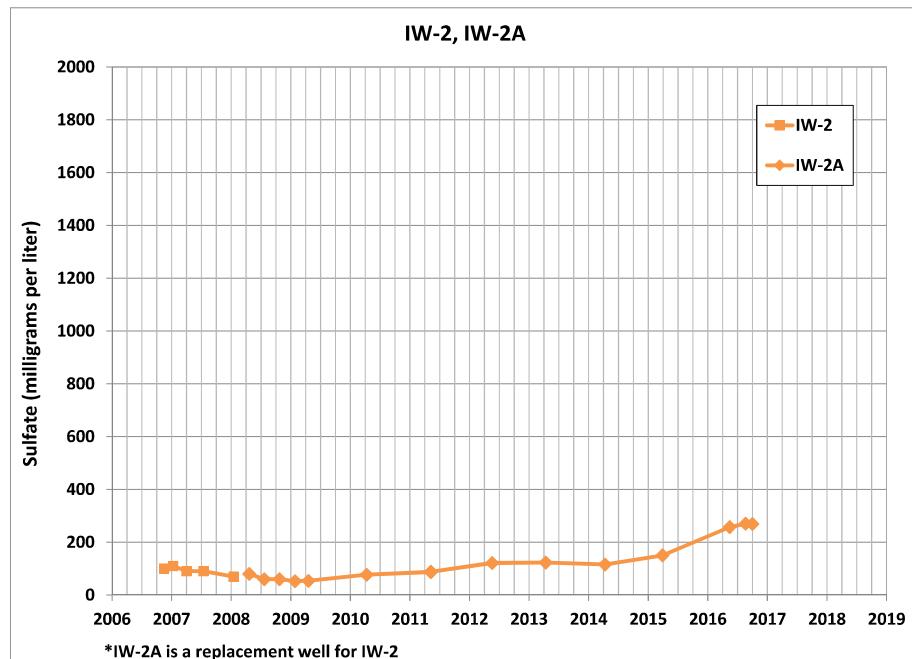
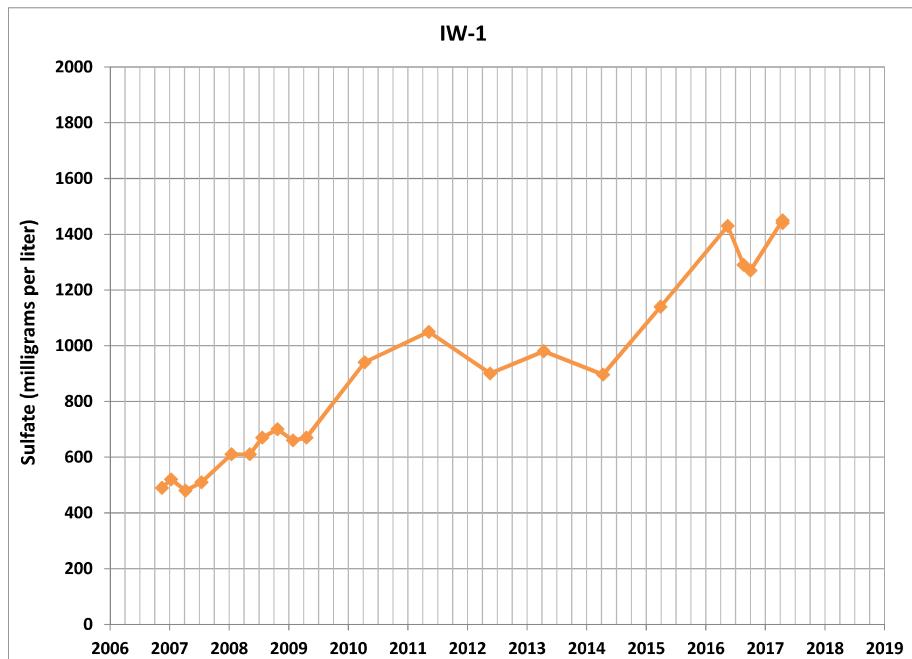
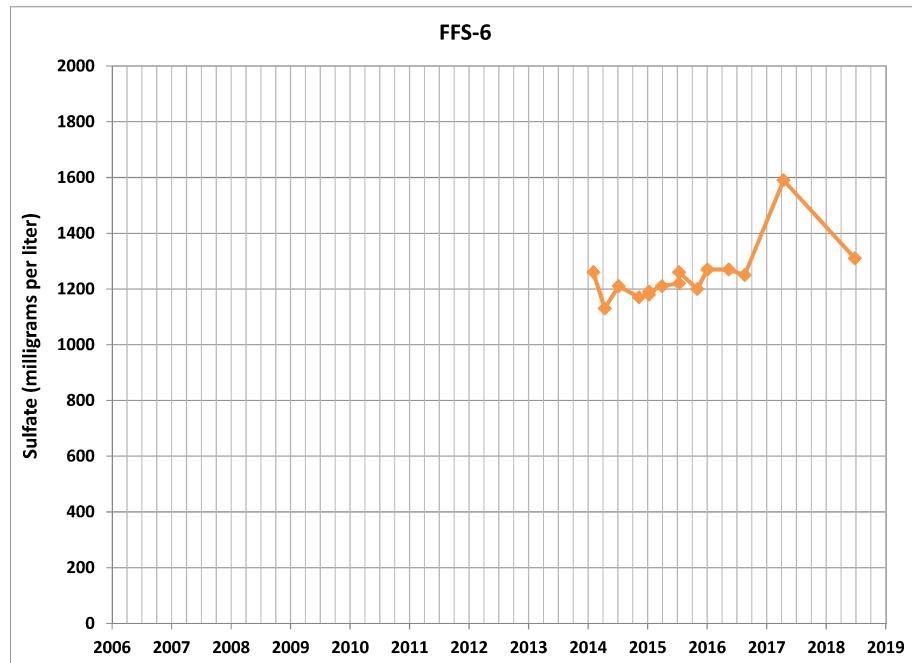
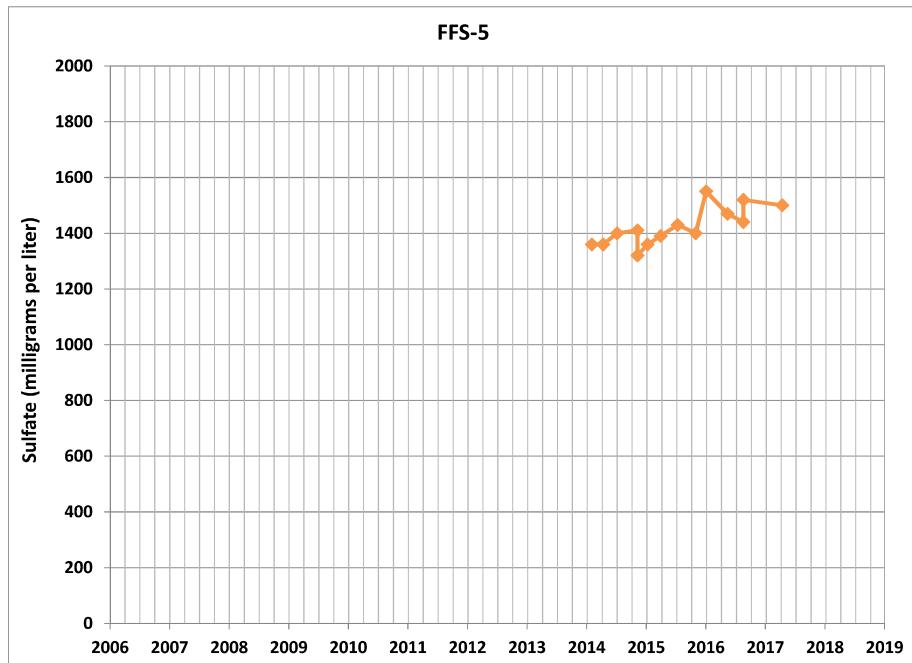
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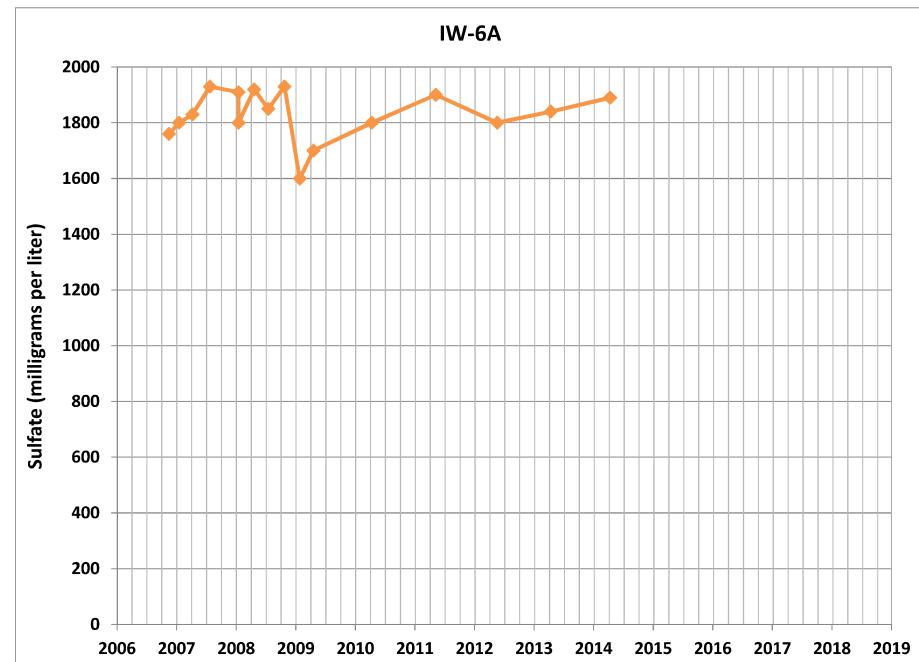
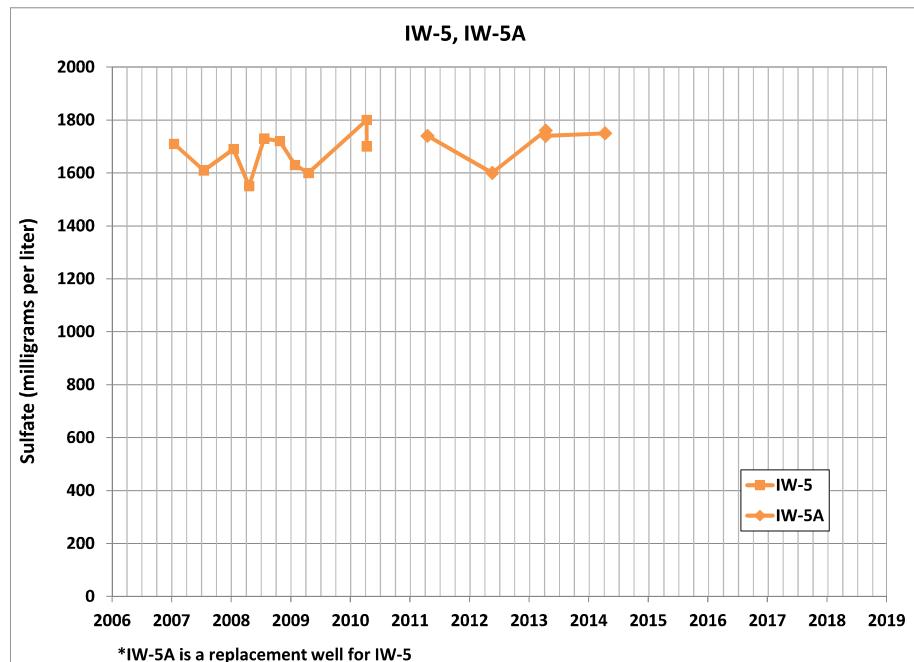
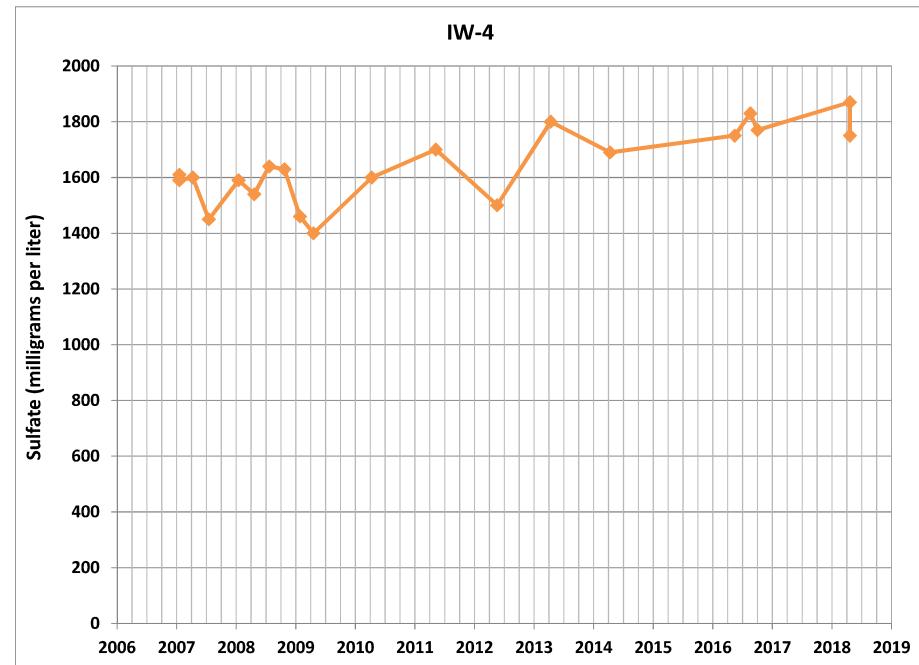
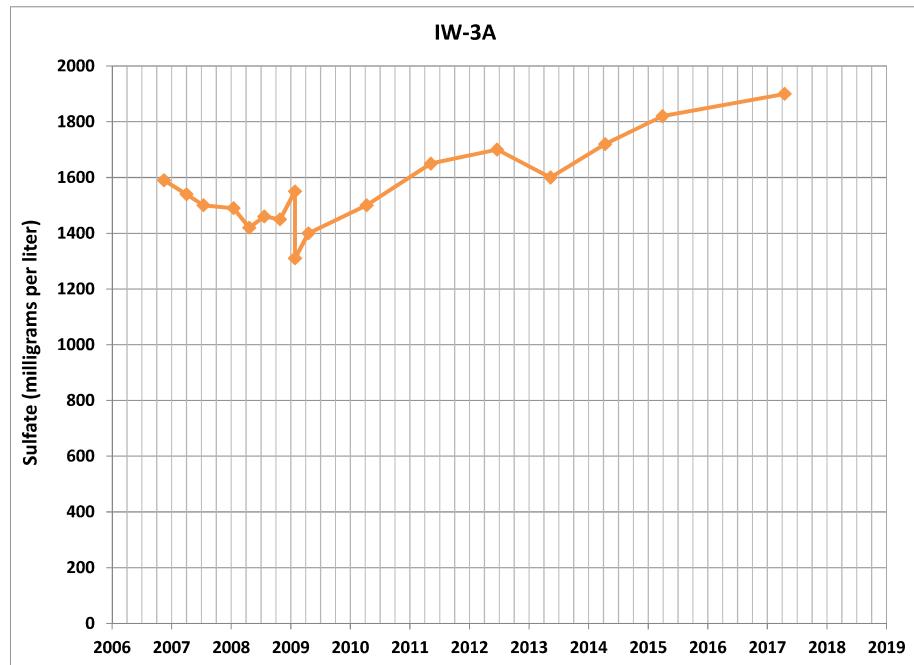
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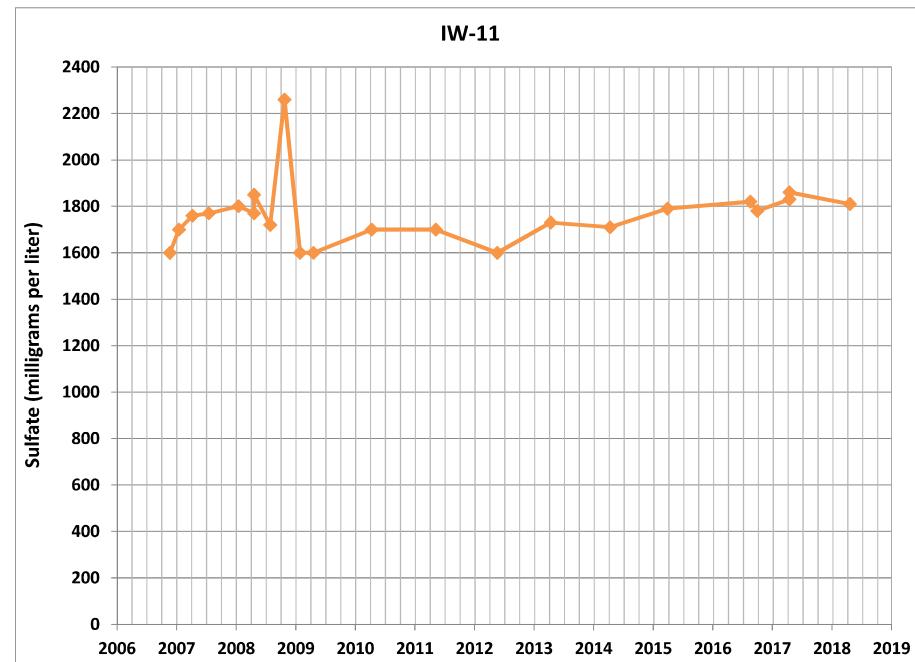
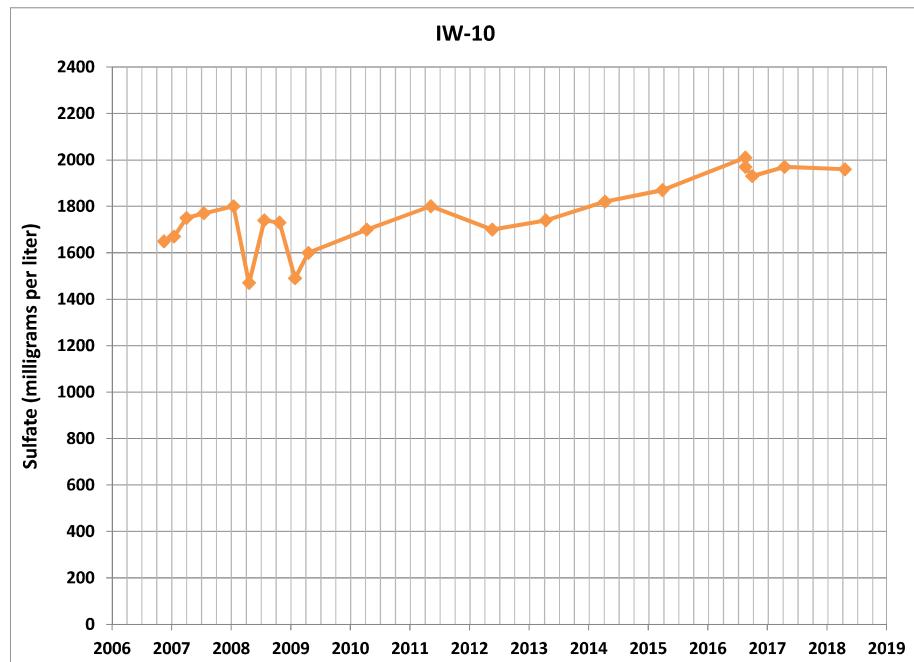
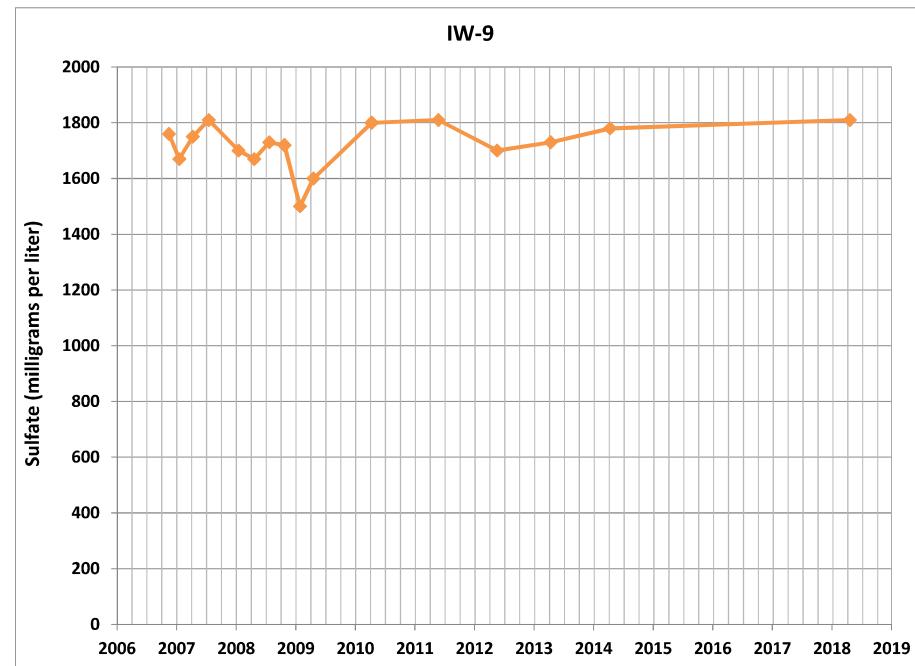
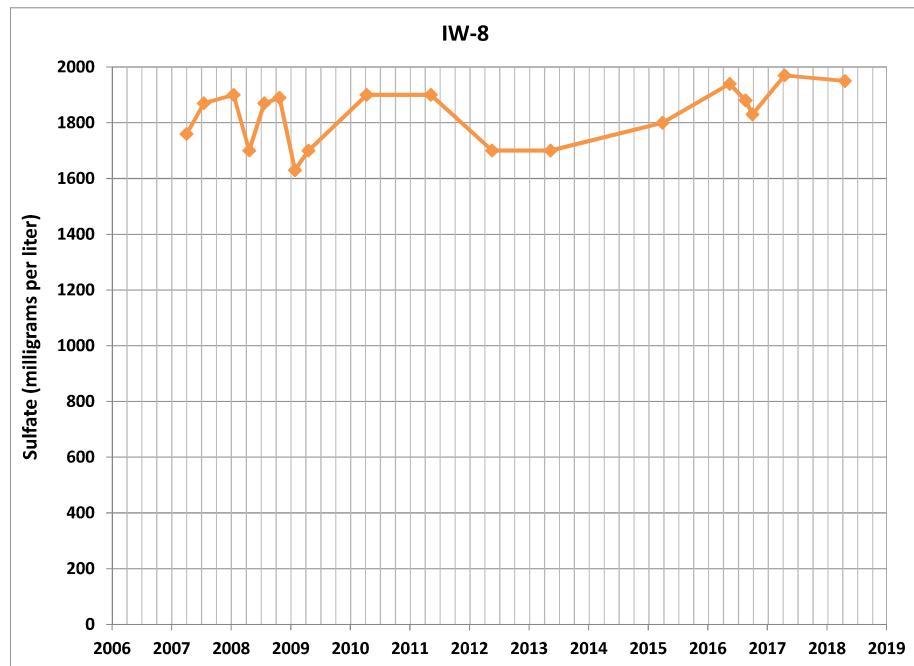
APPENDIX B

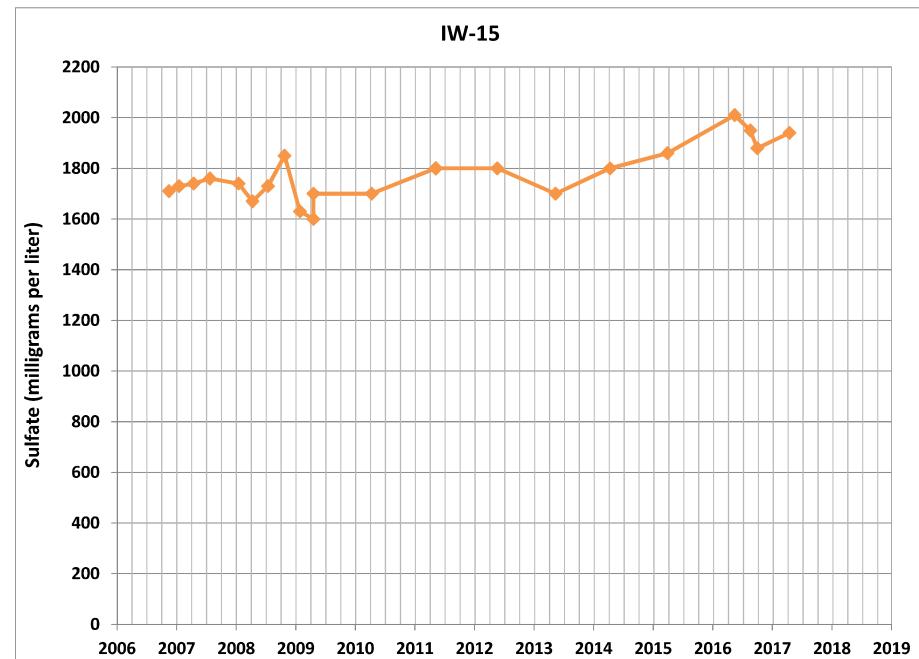
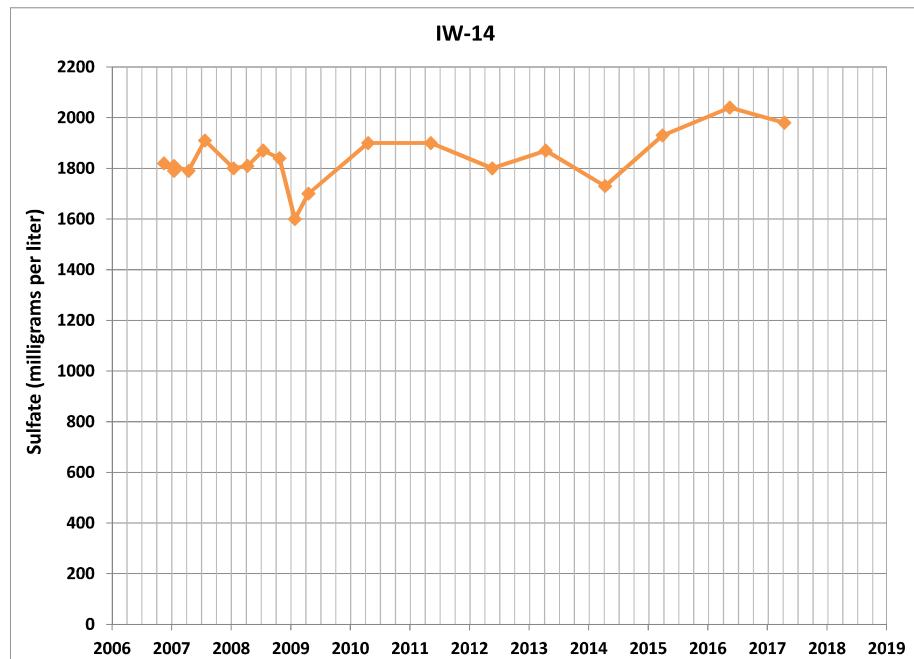
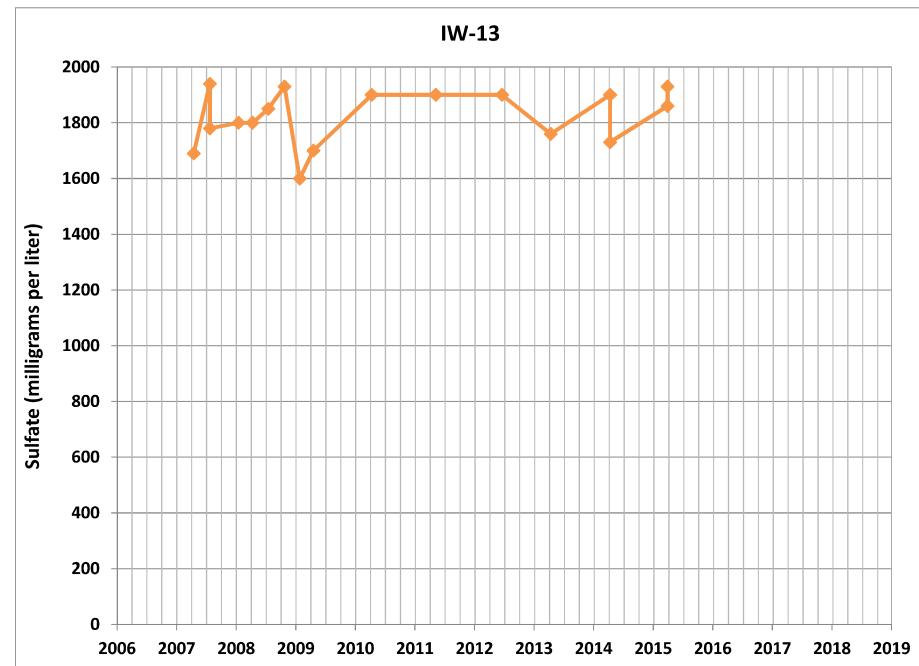
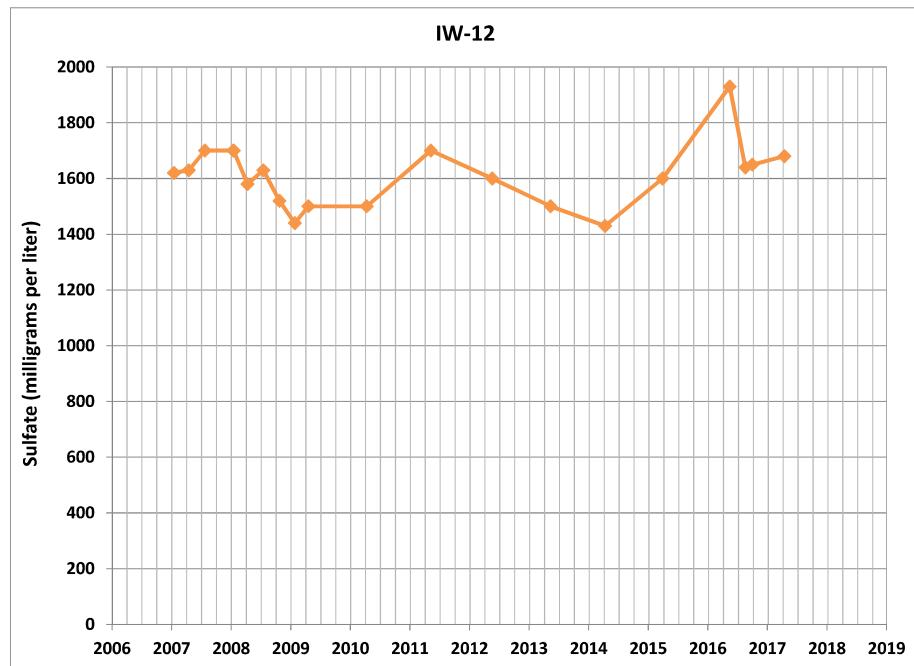
GRAPHS OF SULFATE OVER TIME IN EXTRACTION WELLS
(ALPHABETIC BY WELL NAME)

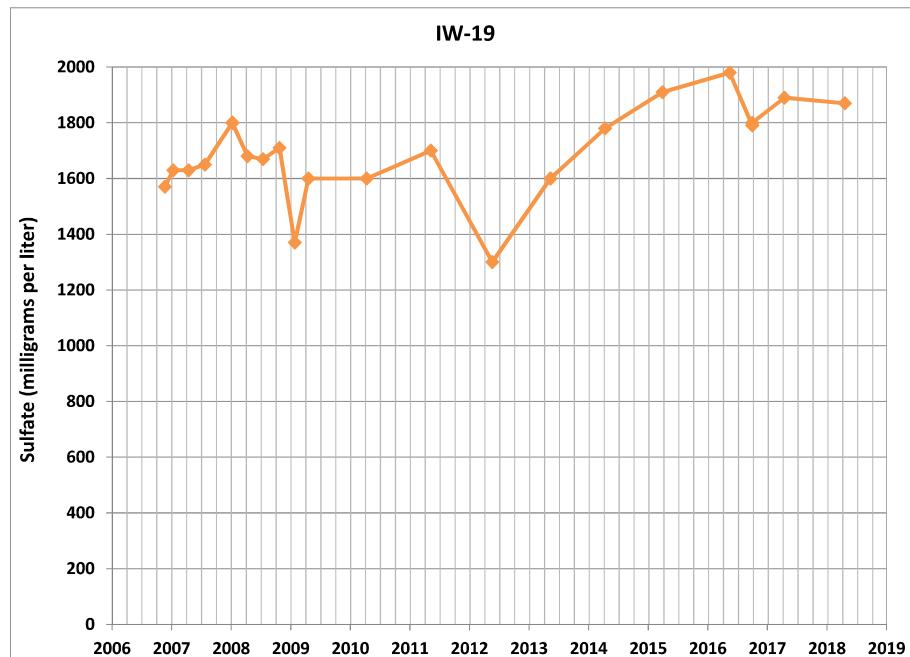
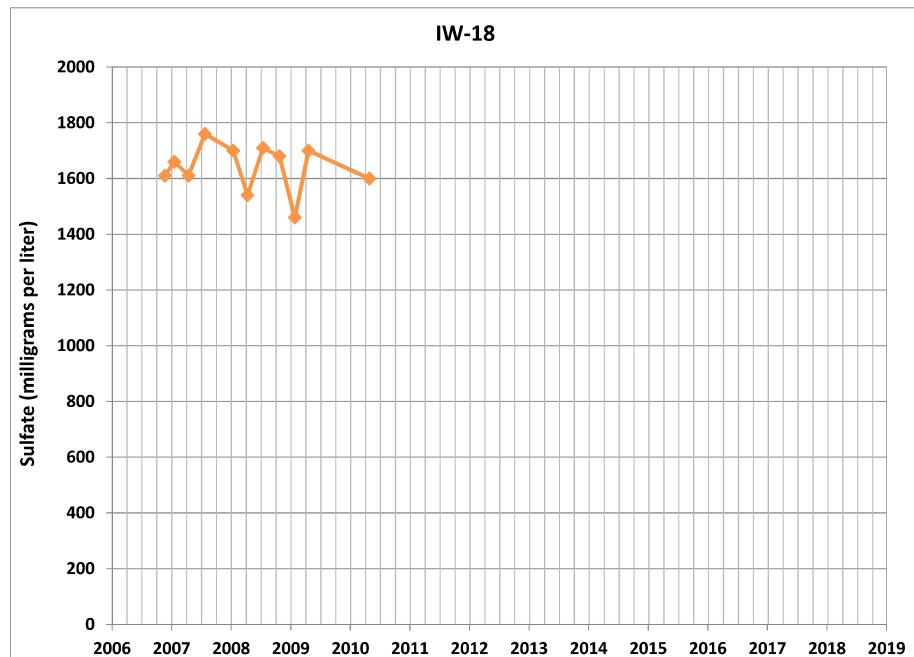
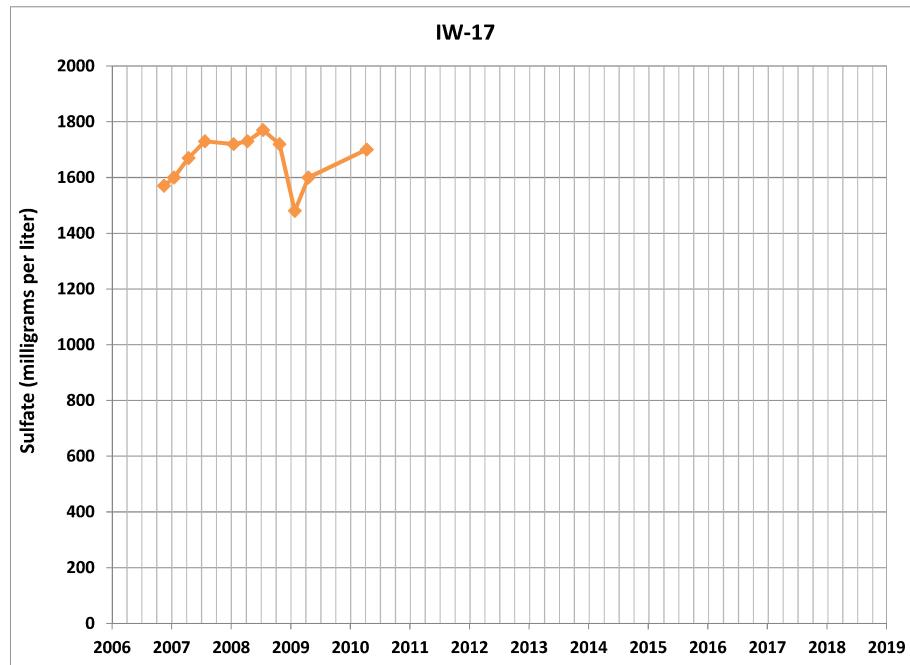
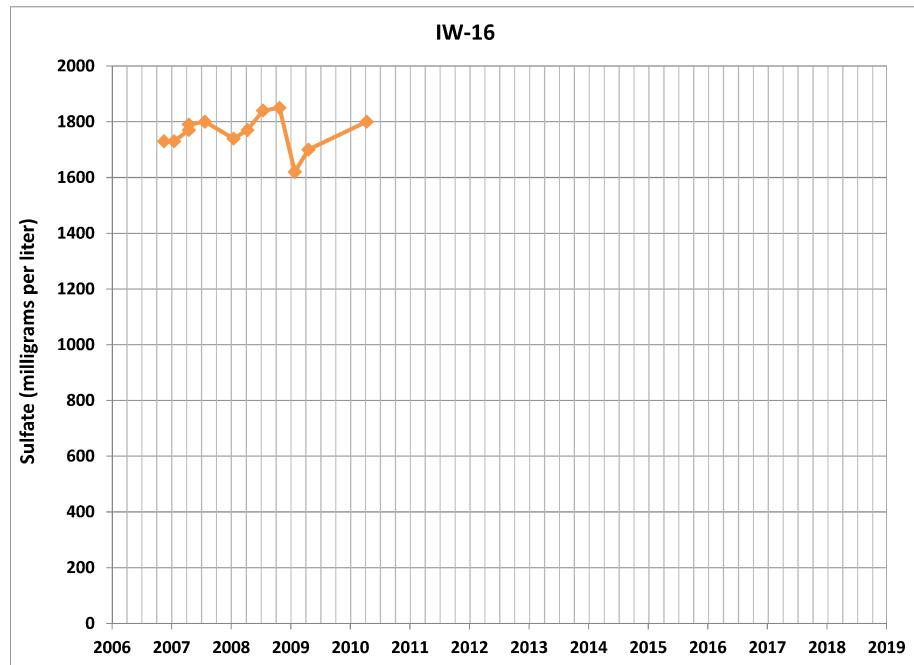


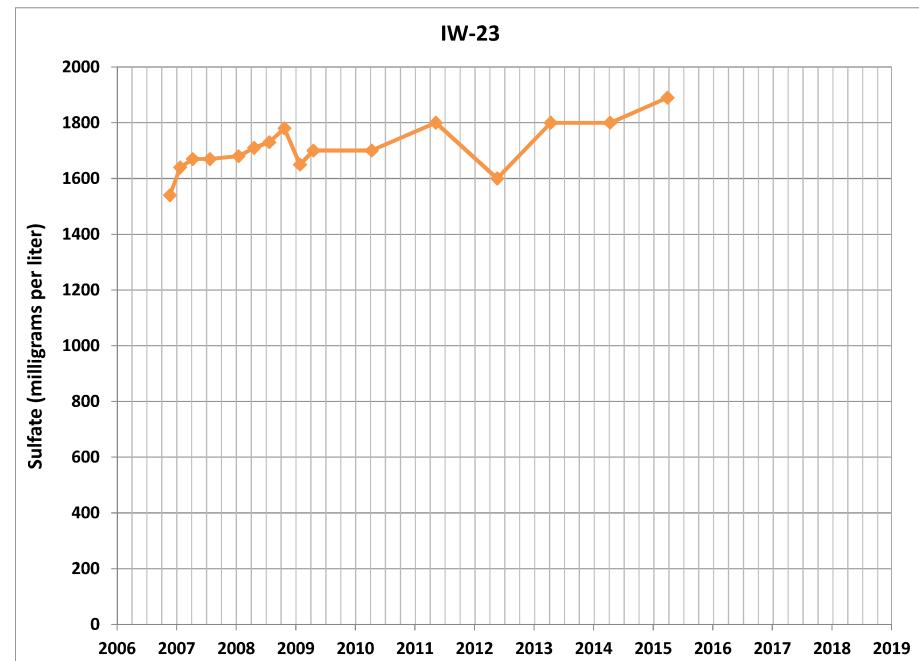
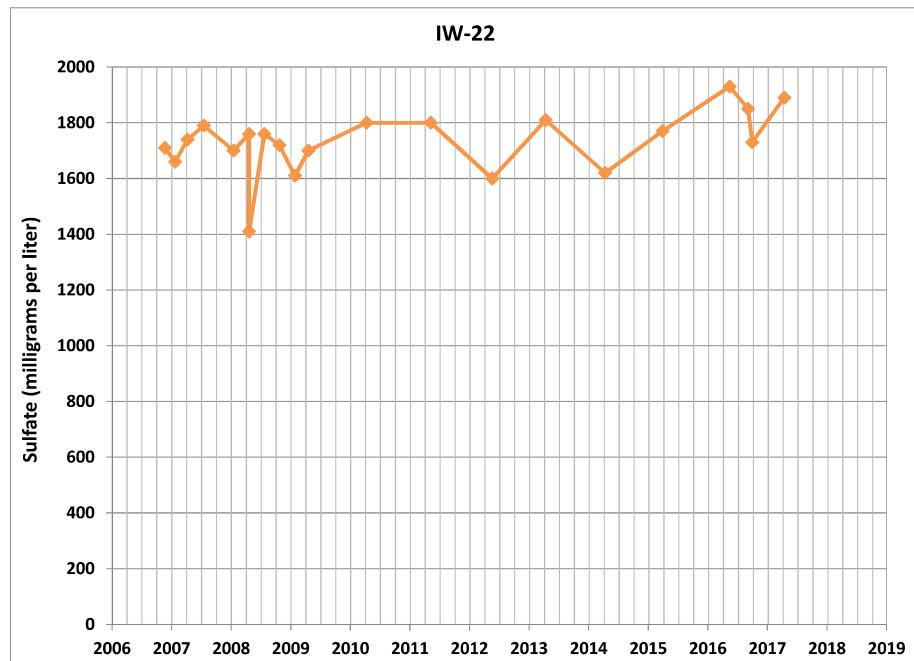
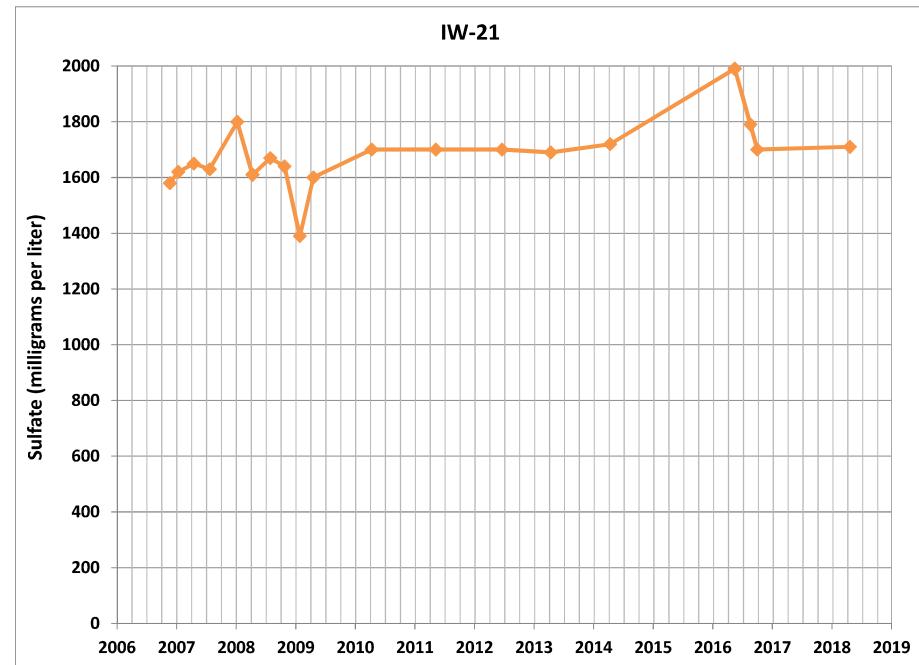
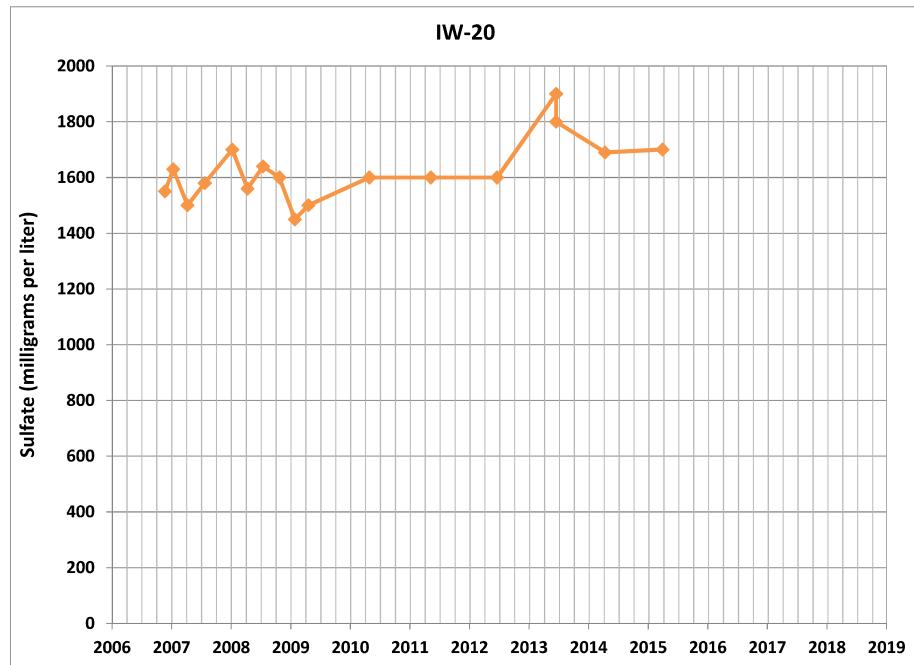


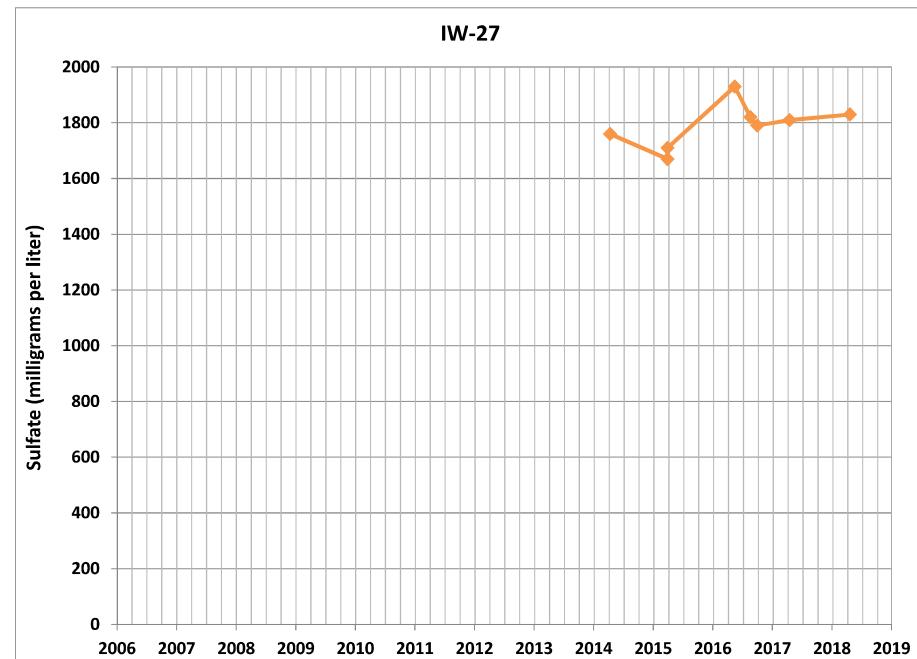
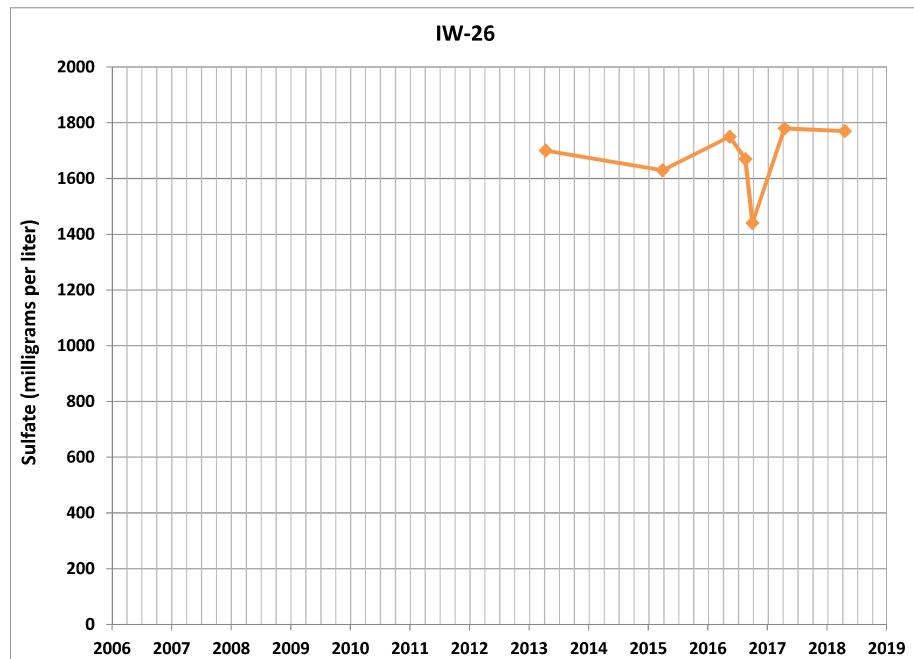
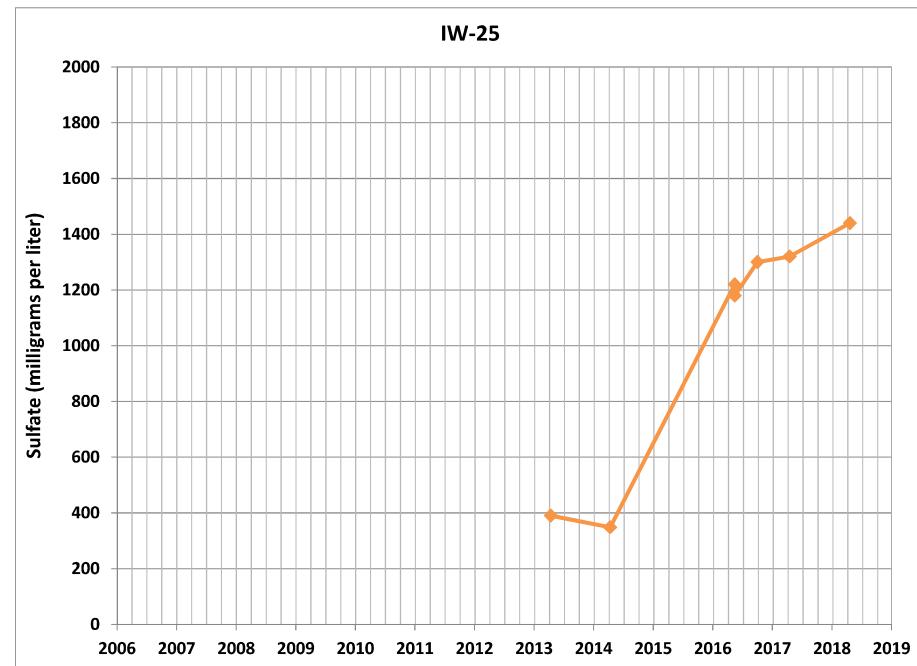
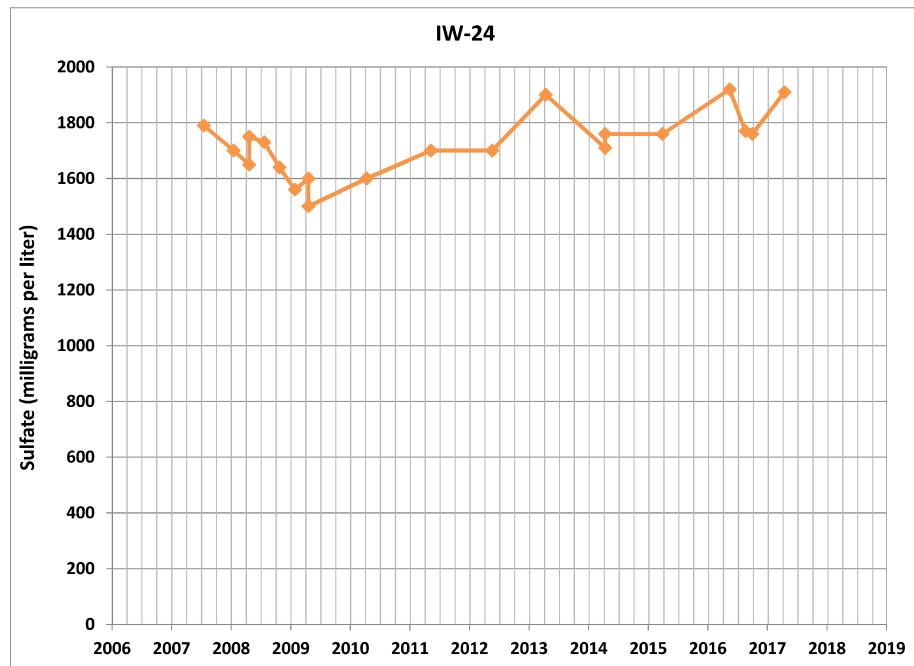


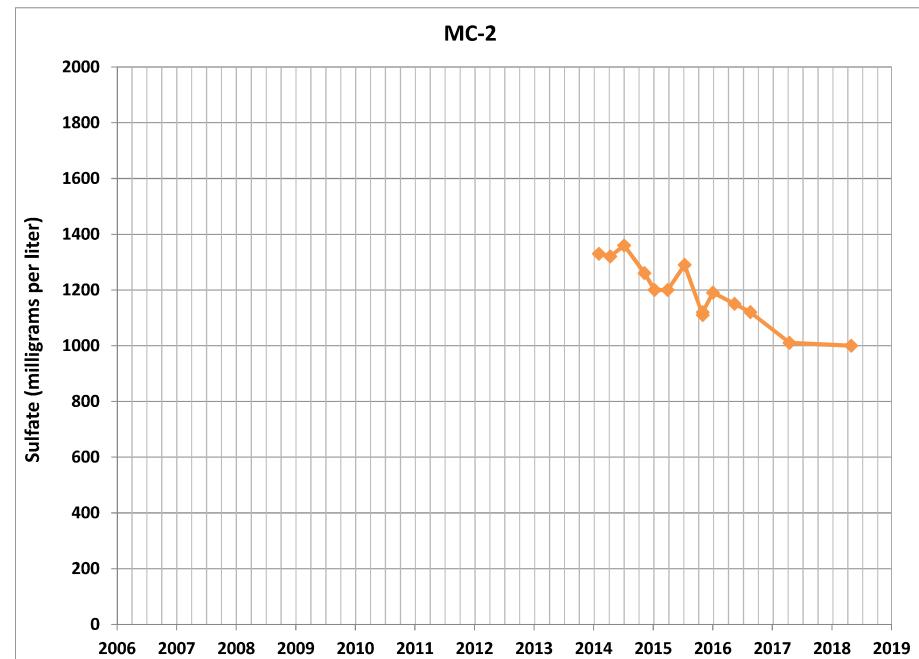
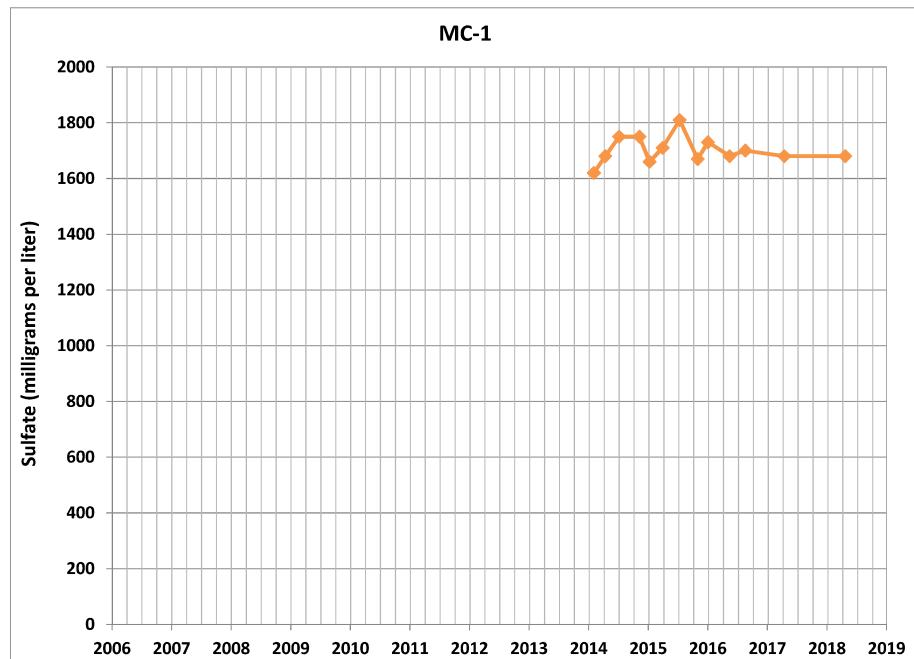
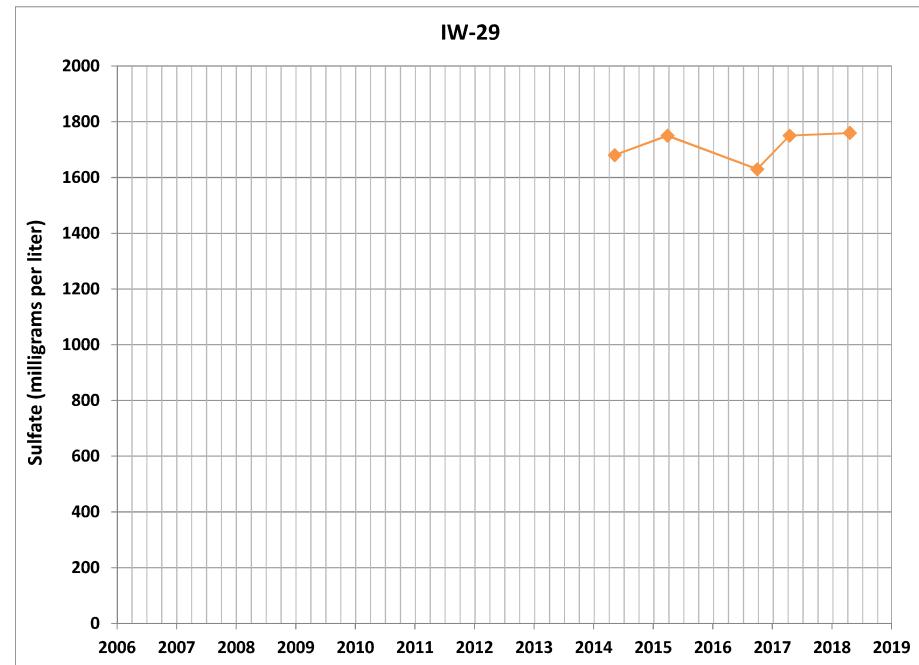
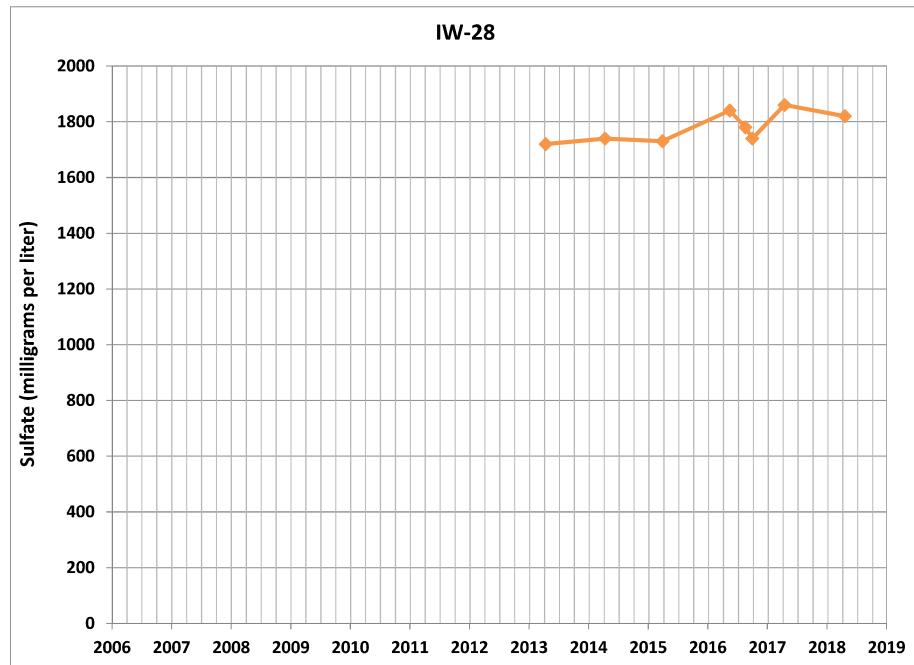


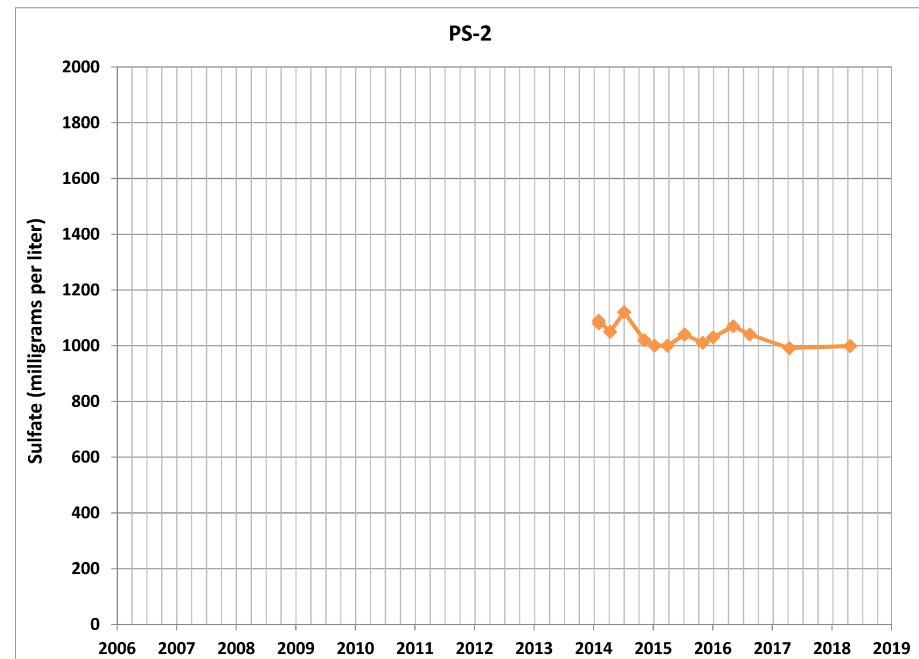
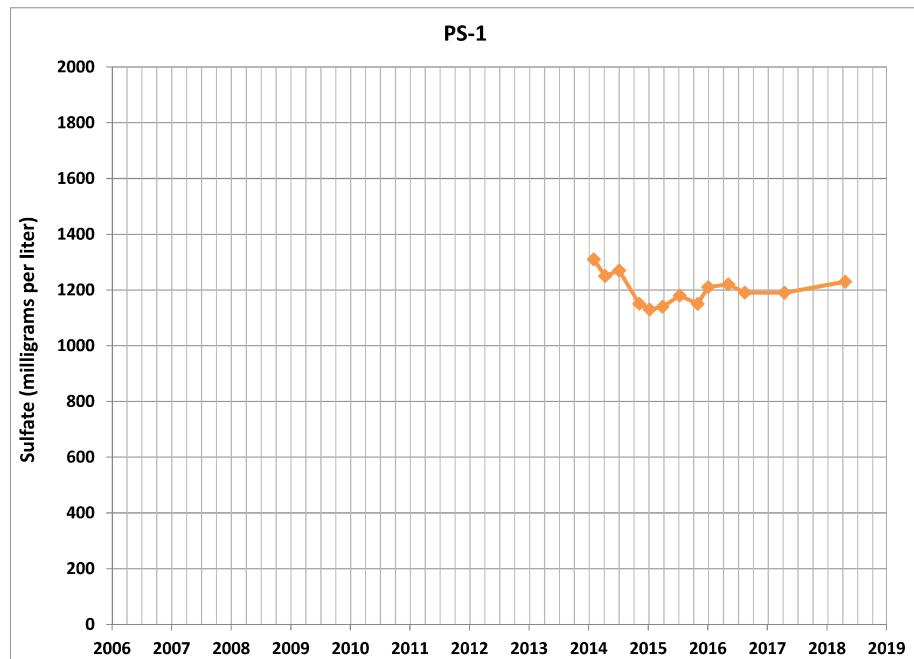
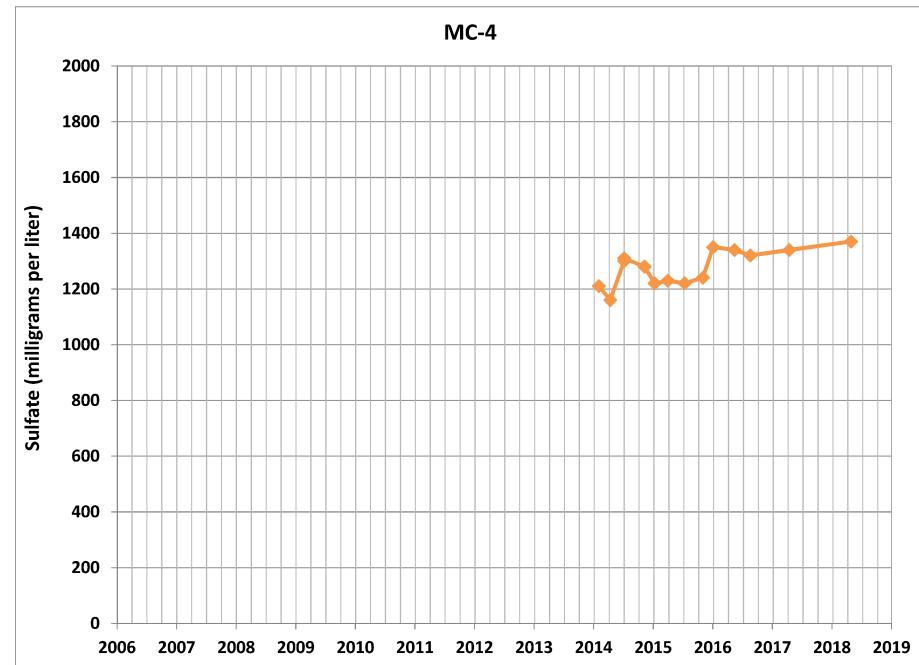
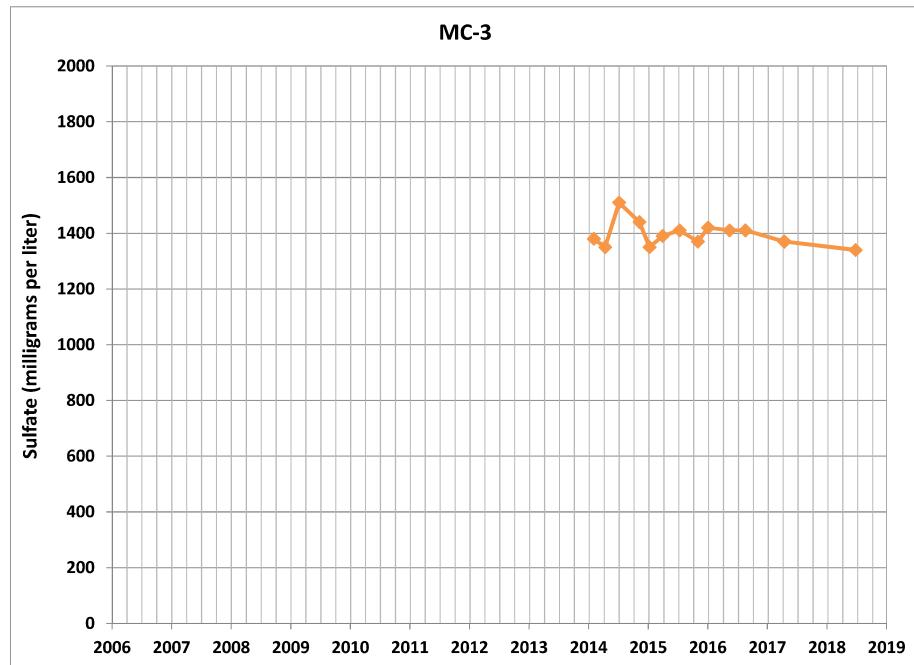


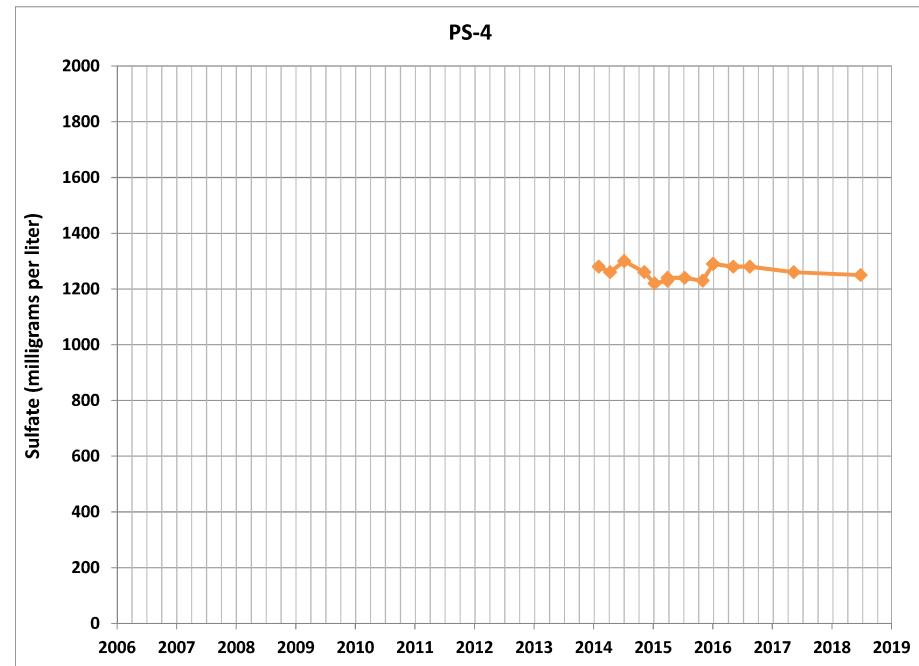
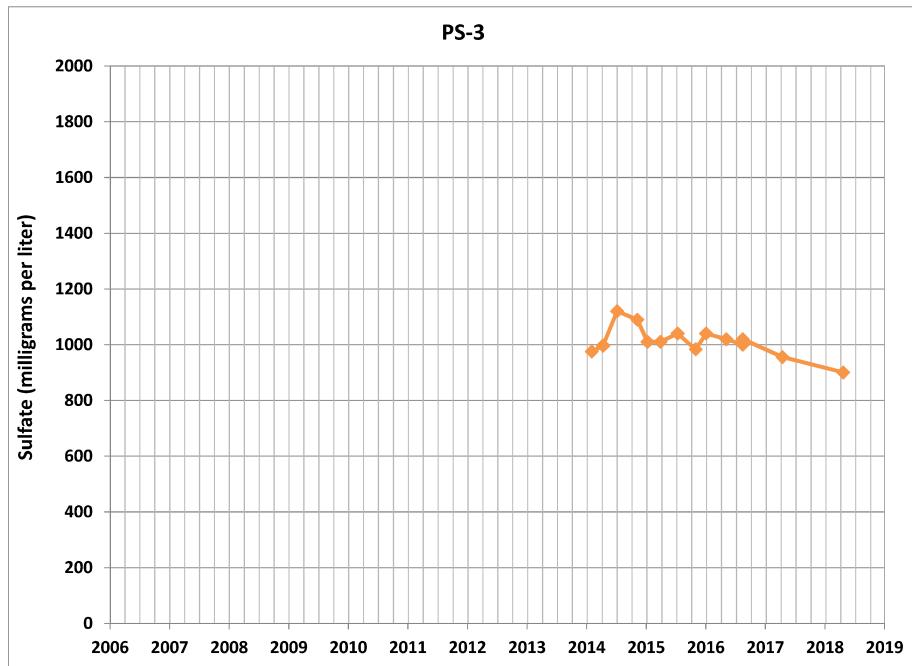












APPENDIX C
WATER ELEVATION DATA

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
CC of GV	501760	3527876.220	501635.382	2823.45	1/15/07		253.15		2570.30	Sierrita
					4/16/07		254.20		2569.25	Sierrita
					7/9/07		259.79		2563.66	Sierrita
					1/10/08		257.26		2566.19	Sierrita
					7/7/08		261.09		2562.36	Sierrita
					11/14/08		263.13		2560.32	Sierrita
					2/4/09		258.48		2564.97	Sierrita
					4/21/09		258.79		2564.66	Sierrita
					4/22/10		259.51		2563.94	Sierrita
					5/14/13		258.20		2565.25	Sierrita
CCGV2	627484	3527694.880	502116.840	2805.88	6/13/16		322.45	Dynamic	2483.43	Sierrita
					12/8/16		325.63	Static	2480.25	Sierrita
					5/11/17		320.50	Dynamic	2485.38	Sierrita
					11/15/17		260.00		2545.88	Sierrita
CW-3	627483	3523809.985	500047.663	2941.71	6/6/07		265.35		2676.36	Sierrita
					8/10/07		267.40		2674.31	Sierrita
					11/6/07		269.98		2671.73	Sierrita
					1/11/08		264.40		2677.31	Sierrita
					4/17/08		266.46		2675.25	Sierrita
					7/11/08		270.95		2670.76	Sierrita
					10/6/08		271.78		2669.93	Sierrita
					2/9/09		267.51		2674.20	Sierrita
					4/24/09		269.06		2672.65	Sierrita
					12/31/09		272.10		2669.61	Sierrita
					4/22/10		271.91		2669.80	Sierrita
					10/25/10		273.54		2668.17	Sierrita
					5/2/11		272.50		2669.21	Sierrita
					12/5/11		274.20		2667.51	Sierrita
					6/26/12		259.51		2682.20	Sierrita
					12/13/12		278.81		2662.90	Sierrita
					6/13/13		283.48		2658.23	Sierrita
					11/12/13		286.51		2655.20	Sierrita
					3/12/14		286.62		2655.09	Sierrita
					4/29/14		289.87		2651.84	Sierrita
					5/6/14		289.87		2651.84	Sierrita
					6/23/14		289.83		2651.88	Sierrita
					7/28/14		296.29		2645.42	Sierrita
					8/7/14		297.18		2644.53	Sierrita
					9/8/14		298.21	Static	2643.50	Sierrita
					10/15/14		299.49		2642.22	Sierrita
					11/26/14		300.17		2641.54	Sierrita
					12/17/14		300.75	Static	2640.96	Sierrita
					1/29/15		301.17	Static ²	2640.54	Sierrita
					2/27/15		301.40	Static ²	2640.31	Sierrita
					3/18/15		301.16	Static ²	2640.55	Sierrita
					4/28/15		304.04	Static ²	2637.67	Sierrita
					5/11/15		303.79	Static ²	2637.92	Sierrita
					6/2/15		304.11	Static ²	2637.60	Sierrita
					7/24/15		307.31	Static ²	2634.40	Sierrita
					8/25/15		308.58	Static ²	2633.13	Sierrita
					10/28/15		309.02	Static ²	2632.69	Sierrita
					11/5/15		308.88	Static ²	2632.83	Sierrita
					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
					12/6/16		314.38	Static ²	2627.33	Sierrita
					5/23/17		317.80	Static ²	2623.91	Sierrita
					11/30/17		318.19	Static ²	2623.52	Sierrita
					6/26/18		320.82	Static ²	2620.89	Sierrita
					12/5/18		318.59	Static ²	2623.12	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-6	627485	3525588.55	500944.89	2867.00	12/4/06	247.50			2619.50	Sierrita
					1/3/07	245.00			2622.00	Sierrita
					5/24/07	252.25			2614.75	Sierrita
					7/10/07	252.15			2614.85	Sierrita
					10/2/07	253.05			2613.95	Sierrita
					1/8/08	245.81			2621.19	Sierrita
					4/17/08	254.20			2612.80	Sierrita
					7/8/08	253.80			2613.20	Sierrita
					10/7/08	256.30			2610.70	Sierrita
					2/6/09	249.27			2617.73	Sierrita
					4/22/09	253.15			2613.85	Sierrita
					9/22/09	256.80			2610.20	Sierrita
					11/5/09	258.10			2608.90	Sierrita
					2/10/10	250.76			2616.24	Sierrita
					5/14/10	252.78			2614.22	Sierrita
					7/27/10	257.35			2609.65	Sierrita
					10/14/10	257.22			2609.78	Sierrita
					2/24/11	250.38			2616.62	Sierrita
					4/28/11	254.32			2612.68	Sierrita
					7/20/11	257.20			2609.80	Sierrita
					12/14/11	253.57			2613.43	Sierrita
					1/24/12	252.33			2614.67	Sierrita
					5/9/12	255.74			2611.26	Sierrita
					8/29/12	258.30			2608.70	Sierrita
					12/12/12	256.33			2610.67	Sierrita
					2/6/13	254.67			2612.33	Sierrita
					5/15/13	259.27			2607.73	Sierrita
					7/17/13	263.01			2603.99	Sierrita
					10/23/13	264.66			2602.34	Sierrita
					1/14/14	259.78			2607.22	Sierrita
					4/16/14	265.79			2601.21	Sierrita
					10/13/14	279.38	Static ²		2587.62	Sierrita
					1/13/15	279.20	Static ²		2587.80	Sierrita
					4/14/15	284.00	Static ²		2583.00	Sierrita
					7/27/15	290.59	Static ²		2576.41	Sierrita
					10/20/15	290.71	Static ²		2576.29	Sierrita
					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
					10/31/16	300.81	Static ²		2566.19	Sierrita
					1/17/17	298.58	Static ²		2568.42	Sierrita
					5/16/17	303.85	Static ²		2563.15	Sierrita
					7/20/17	305.00	Static		2562.00	Sierrita
					10/24/17	309.80	Static		2557.20	Sierrita
					2/12/18	309.80	Static		2557.20	Sierrita
					5/15/18	309.60	Static		2557.40	Sierrita
					8/7/18	312.62	Static		2554.38	Sierrita
					11/28/18	308.00	Static		2559.00	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-7	502546	3527941.01	499686.595	2987.50	2/2/07		425.00		2562.50	Sierrita
					5/14/07		424.15		2563.35	Sierrita
					7/10/07		426.50		2561.00	Sierrita
					10/2/07		427.60		2559.90	Sierrita
					1/8/08		427.50		2560.00	Sierrita
					4/17/08		426.40		2561.10	Sierrita
					7/8/08		428.40		2559.10	Sierrita
					10/7/08		429.80		2557.70	Sierrita
					2/6/09		426.62		2560.88	Sierrita
					4/22/09		424.30		2563.20	Sierrita
					5/14/10		438.35		2549.15	Sierrita
					4/28/11		429.50		2558.00	Sierrita
					5/9/12		425.90		2561.60	Sierrita
					5/15/13		458.53		2528.97	Sierrita
					4/16/14		440.68		2546.82	Sierrita
					6/18/15		461.75	Static	2525.75	Sierrita
					10/20/15		465.40	Static	2522.10	Sierrita
					4/19/16		468.83	Static	2518.67	Sierrita
					10/31/16		474.39	Dynamic	2513.11	Sierrita
					5/16/17		477.10	Dynamic	2510.40	Sierrita
					10/24/17		482.50	Static	2505.00	Sierrita
					5/15/18		485.15	Static	2502.35	Sierrita
					11/28/18		487.78	Static	2499.72	Sierrita
CW-8	543600	3525480.529	499843.273	2957.50	1/3/07		336.50		2621.00	Sierrita
					5/24/07		338.14		2619.36	Sierrita
					8/10/07		339.80		2617.70	Sierrita
					10/2/07		340.60		2616.90	Sierrita
					1/8/08		337.97		2619.53	Sierrita
					4/17/08		339.20		2618.30	Sierrita
					7/8/08		341.75		2615.75	Sierrita
					10/7/08		342.75		2614.75	Sierrita
					2/6/09		339.12		2618.38	Sierrita
					4/22/09		341.20		2616.30	Sierrita
					4/12/10		342.00		2615.50	Sierrita
					4/28/11		342.68		2614.82	Sierrita
					5/9/12		340.12		2617.38	Sierrita
					5/15/13		347.39		2610.11	Sierrita
					4/16/14		359.08		2598.42	Sierrita
					6/18/15		384.24	Static	2573.26	Sierrita
					10/20/15		387.56	Static	2569.94	Sierrita
					4/19/16		391.20	Static	2566.30	Sierrita
					10/31/16		397.39	Dynamic	2560.11	Sierrita
					5/16/17		400.30	Dynamic	2557.20	Sierrita
					10/24/17		404.16	Static	2553.34	Sierrita
					5/15/18		403.70	Static	2553.80	Sierrita
					11/28/18		404.95	Static	2552.55	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-9 ³	588121	3528540.577	501163.535	2863.00	12/4/06	306.00			2557.00	Sierrita
					1/3/07	304.20			2558.80	Sierrita
					5/24/07	309.40			2553.60	Sierrita
					7/10/07	310.20			2552.80	Sierrita
					10/2/07	310.70			2552.30	Sierrita
					1/8/08	308.82			2554.18	Sierrita
					4/17/08	308.00			2555.00	Sierrita
					7/8/08	315.60			2547.40	Sierrita
					10/7/08	316.05			2546.95	Sierrita
					2/6/09	309.80			2553.20	Sierrita
					4/22/09	311.10			2551.90	Sierrita
					7/30/09	316.5			2546.50	Sierrita
					11/5/09	321.60			2541.40	Sierrita
					2/10/10	316.69			2546.31	Sierrita
					5/14/10	316.20			2546.80	Sierrita
					7/27/10	313.63			2549.37	Sierrita
					10/14/10	318.65			2544.35	Sierrita
					2/24/11	309.94			2553.06	Sierrita
					4/28/11	313.41			2549.59	Sierrita
					7/20/11	315.45			2547.55	Sierrita
					12/14/11	314.17			2548.83	Sierrita
					1/24/12	312.56			2550.44	Sierrita
					5/9/12	314.39			2548.61	Sierrita
					8/29/12	318.12			2544.88	Sierrita
					12/12/12	317.48			2545.52	Sierrita
					2/6/13	313.90			2549.10	Sierrita
					5/15/13	313.79			2549.21	Sierrita
					7/17/13	316.52			2546.48	Sierrita
					10/23/13	319.19			2543.81	Sierrita
					1/14/14	319.38			2543.62	Sierrita
					4/16/14	317.82			2545.18	Sierrita
					10/13/14	330.96	Static ²		2532.04	Sierrita
					1/13/15	328.35	Static ²		2534.65	Sierrita
					4/14/15	331.47	Static ²		2531.53	Sierrita
					7/27/15	338.28	Static ²		2524.72	Sierrita
					10/20/15	342.55	Static ²		2520.45	Sierrita
					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
					10/31/16	349.00	Static ²		2514.00	Sierrita
					1/17/17	346.70	Static ²		2516.30	Sierrita
					5/16/17	344.80	Static ²		2518.20	Sierrita
					7/20/17	350.90	Static ²		2512.10	Sierrita
					10/24/17	356.25	Static ²		2506.75	Sierrita
					2/12/18	353.80	Static ²		2509.20	Sierrita
					5/15/18	357.79	Static ²		2505.21	Sierrita
					8/7/18	360.48	Static ²		2502.52	Sierrita
					11/28/18	359.30	Static ²		2503.70	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-10	207982	3523259.064	500975.215	2868.50	12/4/06	178.25			2690.25	Sierrita
					1/3/07	177.20			2691.30	Sierrita
					5/24/07	196.30			2672.20	Sierrita
					7/10/07	198.79			2669.71	Sierrita
					10/2/07	190.85			2677.65	Sierrita
					1/8/08	180.95			2687.55	Sierrita
					4/17/08	187.95			2680.55	Sierrita
					7/8/08	203.25			2665.25	Sierrita
					10/7/08	190.65			2677.85	Sierrita
					2/6/09	184.40			2684.10	Sierrita
					4/22/09	191.12			2677.38	Sierrita
					7/30/09	197.3			2671.20	Sierrita
					11/5/09	199.10			2669.40	Sierrita
					2/10/10	186.00			2682.50	Sierrita
					5/14/10	190.10			2678.40	Sierrita
					7/27/10	198.52			2669.98	Sierrita
					10/14/10	195.31			2673.19	Sierrita
					2/24/11	191.62			2676.88	Sierrita
					4/28/11	196.15			2672.35	Sierrita
					7/20/11	199.75			2668.75	Sierrita
					12/14/11	191.70			2676.80	Sierrita
					1/24/12	189.73			2678.77	Sierrita
					5/9/12	197.20			2671.30	Sierrita
					8/29/12	201.50			2667.00	Sierrita
					12/12/12	199.93			2668.57	Sierrita
					2/6/13	197.87			2670.63	Sierrita
					5/15/13	209.50			2659.00	Sierrita
					7/17/13	212.61			2655.89	Sierrita
					10/23/13	215.14			2653.36	Sierrita
					1/14/14	203.86			2664.64	Sierrita
					4/16/14	210.15			2658.35	Sierrita
					7/22/14	220.59	Static ²		2647.91	Sierrita
					10/13/14	223.99	Static ²		2644.51	Sierrita
					1/13/15	216.94	Static ²		2651.56	Sierrita
					4/14/15	230.95	Static ²		2637.55	Sierrita
					7/27/15	236.30	Static ²		2632.20	Sierrita
					10/20/15	224.82	Static ²		2643.68	Sierrita
					1/20/16	222.82	Static ²		2645.68	Sierrita
					4/19/16	226.81	Static ²		2641.69	Sierrita
					8/22/16	239.08	Dynamic		2629.42	Sierrita
					10/31/16	422.60	Dynamic		2445.90	Sierrita
					1/17/17	228.67	Static ²		2639.83	Sierrita
					5/16/17	234.00	Static ²		2634.50	Sierrita
					7/20/17	238.45	Static ²		2630.05	Sierrita
					10/24/17	243.50	Static ²		2625.00	Sierrita
					5/15/18	239.57	Static ²		2628.93	Sierrita
					8/7/18	241.38	Static ²		2627.12	Sierrita
					11/28/18	231.25	Static ²		2637.25	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
CW-11	608518	3531004.624	502441.590	2778.61	6/18/15		318.58	Dynamic	2460.03	Sierrita
					10/20/15		286.51	Static ²	2492.10	Sierrita
					4/19/16		281.75	Static ²	2496.86	Sierrita
					10/31/16		289.5	Static ²	2489.11	Sierrita
					10/24/17		347.9	Static	2430.71	Sierrita
					5/15/18		341.00	Static	2437.61	Sierrita
					11/28/18		320.30	Static	2458.31	Sierrita
ESP-1	623102	3526448.677	499969.682	2953.43	11/28/06		352.20		2601.23	Sierrita
					1/3/07		350.10		2603.33	Sierrita
					5/24/07		349.55		2603.88	Sierrita
					7/10/07		351.11		2602.32	Sierrita
					10/12/07		343.00		2610.43	Sierrita
					10/30/08		355.47		2597.96	Sierrita
					1/29/09		354		2599.43	Sierrita
					4/16/09		350.50		2602.93	Sierrita
					11/10/09		355.67		2597.76	Sierrita
					4/28/10		354.10		2599.33	Sierrita
					10/15/10		357.40		2596.03	Sierrita
					5/3/11		355.79		2597.64	Sierrita
					11/22/11		357.82		2595.61	Sierrita
					12/13/11		355.60		2597.83	Sierrita
					6/19/12		357.76		2595.67	Sierrita
					11/21/12		358.70		2594.73	Sierrita
					5/20/13		357.15		2596.28	Sierrita
					4/28/14		Obstructed		NA	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
ESP-2	623103	3526924.656	500241.637	2934.60	11/28/06	342.55			2592.05	Sierrita
					1/3/07	343.10			2591.50	Sierrita
					5/14/07	339.90			2594.70	Sierrita
					7/10/07	341.25			2593.35	Sierrita
					10/12/07	342.26			2592.34	Sierrita
					1/23/08	340.40			2594.20	Sierrita
					4/18/08	340.93			2593.67	Sierrita
					7/25/08	342.30			2592.30	Sierrita
					10/30/08	344.82			2589.78	Sierrita
					1/29/09	395.16			2539.44	Sierrita
					4/16/09	341.45			2593.15	Sierrita
					11/10/09	346.50			2588.10	Sierrita
					4/28/10	343.99			2590.61	Sierrita
					10/15/10	347.33			2587.27	Sierrita
					5/3/11	345.44			2589.16	Sierrita
					11/22/11	347.26			2587.34	Sierrita
					6/19/12	346.84			2587.76	Sierrita
					11/21/12	348.11			2586.49	Sierrita
					5/20/13	348.45			2586.15	Sierrita
					11/5/13	362.28			2572.32	Sierrita
					3/12/14	354.98			2579.62	Sierrita
					4/28/14	358.88			2575.72	Sierrita
					5/6/14	358.90			2575.70	Sierrita
					6/23/14	358.86			2575.74	Sierrita
					7/28/14	365.59			2569.01	Sierrita
					8/8/14	367.53			2567.07	Sierrita
					9/9/14	368.29	Static		2566.31	Sierrita
					10/1/14	369.45			2565.15	Sierrita
					11/26/14	369.90			2564.70	Sierrita
					12/17/14	370.22	Static		2564.38	Sierrita
					1/29/15	370.43	Static		2564.17	Sierrita
					2/27/15	370.56	Static		2564.04	Sierrita
					3/26/15	376.27	Static		2558.33	Sierrita
					4/29/15	377.94	Static		2556.66	Sierrita
					5/12/15	378.70	Static		2555.90	Sierrita
					6/21/15	379.41	Static		2555.19	Sierrita
					7/24/15	382.81	Static		2551.79	Sierrita
					8/14/15	384.60	Static		2550.00	Sierrita
					10/21/15	382.96	Static		2551.64	Sierrita
					11/2/15	382.38	Static		2552.22	Sierrita
					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	Sierrita
					6/7/16	389.11	Static		2545.49	Sierrita
					9/7/16	391.55	Static		2543.05	Sierrita
					10/4/16	393.40	Static		2541.20	Sierrita
					1/18/17	394.70	Static		2539.90	Sierrita
					5/22/17	466.66	Dynamic		2467.94	Sierrita
					8/7/17	398.09	Static		2536.51	Sierrita
					4/5/18	402.48	Static		2532.12	Sierrita
					12/10/18	404.18	Static		2530.42	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
ESP-3	623104	3527377.239	500234.067	2935.80	11/28/06		360.40		2575.40	Sierrita
					1/3/07		358.60		2577.20	Sierrita
					5/14/07		355.85		2579.95	Sierrita
					7/1/07		358.05		2577.75	Sierrita
					10/30/08		361.12		2574.68	Sierrita
					1/29/09		410.05		2525.75	Sierrita
					4/16/09		353.20		2582.60	Sierrita
					11/12/09		363.37		2572.43	Sierrita
					4/28/10		361.69		2574.11	Sierrita
					10/15/10		365.00		2570.80	Sierrita
					5/3/11		363.35		2572.45	Sierrita
					11/22/11		364.91		2570.89	Sierrita
					6/19/12		364.50		2571.30	Sierrita
					11/21/12		357.92		2577.88	Sierrita
					5/22/13		356.23		2579.57	Sierrita
					11/5/13		367.84		2567.96	Sierrita
					4/28/14		374.61		2561.19	Sierrita
					10/1/14		375.53	Static	2560.27	Sierrita
					5/12/15		393.85	Static	2541.95	Sierrita
					10/21/15		398.32	Static	2537.48	Sierrita
					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
					10/4/16		407.80	Static	2528.00	Sierrita
					1/18/17		408.95	Static	2526.85	Sierrita
					5/22/17		411.67	Static	2524.13	Sierrita
					8/7/17		413.30	Static	2522.50	Sierrita
					10/17/17		414.00	Static	2521.80	Sierrita
					1/16/18		413.65	Static	2522.15	Sierrita
					4/5/18		417.70	Static	2518.10	Sierrita
					12/10/18		420.90	Static	2514.90	Sierrita
ESP-4	623105	3526132.758	499916.830	2958.60	11/28/06		349.20		2609.40	Sierrita
					1/12/07		348.30		2610.30	Sierrita
					5/4/07		346.90		2611.70	Sierrita
					7/24/07		348.80		2609.80	Sierrita
					10/12/07		352.41		2606.19	Sierrita
					1/23/08		349.65		2608.95	Sierrita
					4/18/08		350.39		2608.21	Sierrita
					7/25/08		352.13		2606.47	Sierrita
					10/30/08		355.42		2603.18	Sierrita
					1/29/09		352.50		2606.10	Sierrita
					4/16/09		356.87		2601.73	Sierrita
					10/23/09		355.64		2602.96	Sierrita
					4/28/10		351.56		2607.04	Sierrita
					10/15/10		358.16		2600.44	Sierrita
					5/3/11		355.65		2602.95	Sierrita
					11/22/11		356.91		2601.69	Sierrita
					11/12/12		358.92		2599.68	Sierrita
					5/20/13		363.95		2594.65	Sierrita
					11/5/13		362.37		2596.23	Sierrita
					4/28/14		372.14		2586.46	Sierrita
					10/1/14		383.76	Static	2574.84	Sierrita
					5/12/15		393.63	Static	2564.97	Sierrita
					10/19/15		399.74	Static	2558.86	Sierrita
					6/7/16		411.20	Static	2547.40	Sierrita
					10/4/16		407.80	Static	2550.80	Sierrita
					5/22/17		411.60	Static	2547.00	Sierrita
					10/17/17		413.59	Static	2545.01	Sierrita
					4/5/18		415.25	Static	2543.35	Sierrita
					12/10/18		416.58	Static	2542.02	Sierrita

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Well Name	ADWR 55 Registry Number	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-5	623106	3527082.232	502007.895	2820.00	2/12/07		219.50		2600.50	Sierrita
					5/4/07		217.75		2602.25	Sierrita
					7/3/07		224.60		2595.40	Sierrita
					11/8/07		228.42		2591.58	Sierrita
					1/28/08		222.00		2598.00	Sierrita
					4/22/08		220.08		2599.92	Sierrita
					8/7/08		225.88		2594.12	Sierrita
					11/3/08		228.92		2591.08	Sierrita
					2/17/09		221.89		2598.11	Sierrita
					6/2/09		224.10		2595.90	Sierrita
					4/28/10		223.28		2596.72	Sierrita
					5/3/11		224.15		2595.85	Sierrita
					6/19/12		229.73		2590.27	Sierrita
					5/20/13		230.08		2589.92	Sierrita
					4/29/14		232.72		2587.28	Sierrita
					6/17/15		241.10	Static	2578.90	Sierrita
					11/24/15		242.02	Static	2577.98	Sierrita
					4/28/16		243.73	Static	2576.27	Sierrita
					12/8/16		244.10	Static	2575.90	Sierrita
					6/8/17		254.00	Static	2566.00	Sierrita
					11/15/17		254.82	Static	2565.18	Sierrita
					6/11/18		259.00	Static	2561.00	Sierrita
					12/11/18		255.80	Static	2564.20	Sierrita

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Well Name	ADWR 55 Registry Number	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	3524105.489	498321.6883	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
					2/11/16		475.30	Dynamic	2596.10	BW
					3/4/16		475.80	Dynamic	2595.60	BW
					4/29/16		593.55	Dynamic	2477.85	Sierrita
					10/5/16		479.10	Dynamic	2592.30	BW
					4/17/17		481.15	Dynamic	2590.25	Sierrita
					7/20/17		480.93	Dynamic	2590.47	BW
					10/25/17		481.22	Dynamic	2590.18	BW
					5/22/18		446.20	Static	2625.20	BW
					9/25/18		443.75	Static	2627.65	BW
					11/26/18		478.40	Dynamic	2593.00	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-2	221663	3524699.036	498316.6779	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			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
					2/11/16		499.90	Dynamic	2582.21	BW
					3/4/16		502.45	Dynamic	2579.66	BW
					4/29/16		504.00	Dynamic	2578.11	Sierrita
					10/5/16		506.40	Dynamic	2575.71	BW
					4/17/17		505.74	Dynamic	2576.37	Sierrita
					7/20/17		505.60	Dynamic	2576.51	BW
					10/25/17		505.50	Dynamic	2576.61	BW
					5/22/18		505.45	Dynamic	2576.66	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-3	221664	3525305.994	498351.2089	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		NA		Sierrita
					2/11/16		535.40	Dynamic	2548.50	BW
					3/4/16		540.22	Dynamic	2543.68	BW
					4/8/16		541.65	Dynamic	2542.25	Sierrita
					10/5/16		544.45	Dynamic	2539.45	BW
					4/17/17		544.30	Dynamic	2539.60	Sierrita
					7/20/17		547.00	Dynamic	2536.90	BW
					10/25/17		547.00	Dynamic	2536.90	BW
					5/22/18		546.90	Dynamic	2537.00	BW
					9/25/18		548.25	Dynamic	2535.65	BW
					11/26/18		548.20	Dynamic	2535.70	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-4	221665	3525933.902	498355.0913	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		NA	Sierrita
					2/11/16		696.38	Dynamic	2401.54	BW
					3/4/16		693.48	Dynamic	2404.44	BW
					4/8/16		693.95	Dynamic	2403.97	Sierrita
					10/5/16		692.75	Dynamic	2405.17	BW
					4/17/17		694.50	Dynamic	2403.42	Sierrita
					7/20/17		692.00	Dynamic	2405.92	BW
					10/25/17		690.45	Dynamic	2407.47	BW
					5/22/18		231.10	Static	2866.82	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-5	221666	3526763.99	498336.5907	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	566.80	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
					2/11/16	592.80	Dynamic	2514.93	BW	
					3/4/16	593.15	Dynamic	2514.58	BW	
					4/8/16	594.05	Dynamic	2513.68		Sierrita
					10/5/16	596.99	Dynamic	2510.74	BW	
					4/17/17	596.60	Dynamic	2511.13		Sierrita
					7/20/17	597.10	Dynamic	2510.63	BW	
					10/25/17	597.06	Dynamic	2510.67	BW	
					5/22/18	585.01	Static	2522.72	BW	

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
FFS-6	221667	3527243.483	498327.778	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
					2/11/16		594.60	Dynamic	2515.84	BW
					3/4/16		594.85	Dynamic	2515.59	BW
					4/8/16		596.10	Dynamic	2514.34	Sierrita
					10/5/16		600.45	Dynamic	2509.99	BW
					4/17/17		603.10	Dynamic	2507.34	Sierrita
					7/20/17		594.25	Static	2516.19	BW
					11/8/17		594.79	Static	2515.65	Sierrita
FICO C-4	624010	3525383.746	501759.635	2836.19	6/19/15		262.70	Dynamic	2573.49	Sierrita
					11/24/15		UTM		NA	Sierrita
					4/28/16		235.80	Static	2600.39	Sierrita
					12/8/16		251.14	Static	2585.05	Sierrita
					5/24/17		237.22	Static	2598.97	Sierrita
					11/17/17		239.72	Static ²	2596.47	Sierrita
FICO E-6	624013	3525168.902	502425.07	2841.16	6/19/15		259.31	Dynamic	2581.85	Sierrita
					11/24/15		232.65	Static	2608.51	Sierrita
					4/28/16		260.00	Dynamic	2581.16	Sierrita
					12/8/16		255.31	Dynamic	2585.85	Sierrita
					5/24/17		264.53	Dynamic	2576.63	Sierrita
					11/17/17		235.00	Static ²	2606.16	Sierrita
FICO E-7	624014	3525678.894	503163.562	2832	6/15/17		237.78	Static	2594.22	Sierrita
					12/6/17		231.00	Static	2601.00	Sierrita
					6/8/18		241.93	Static	2590.07	Sierrita
					11/29/18		237.55	Static	2594.45	Sierrita

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Well Name	ADWR 55 Registry Number	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
FICO E-8	624015	3525168.902	502425.070	2828	6/15/17		240.80	Static	2587.20	Sierrita
					12/6/17		238.50	Static	2589.50	Sierrita
					6/8/18		243.41	Static	2584.59	Sierrita
					11/29/18		241.50	Static	2586.50	Sierrita
FICO E-9	624016	3521260.246	500875.349	2888	12/29/16		174.60	Static	2713.40	Sierrita
					6/15/17		177.70	Static	2710.30	Sierrita
					12/6/17		174.60	Static	2713.40	Sierrita
					6/8/18		174.79	Static	2713.21	Sierrita
					11/29/18		174.57	Static	2713.43	Sierrita
FICO S-25	NR	3533425.000	502939.000	2748	12/29/16		145.92	Static	2602.08	Sierrita
					6/15/17		146.85	Static	2601.15	Sierrita
					12/6/17		146.57	Static	2601.43	Sierrita
					6/8/18		146.58	Static	2601.42	Sierrita
					11/29/18		144.85	Static	2603.15	Sierrita
FICO S-25A	623985	3533340.627	502981.743	2748	12/29/16		166.35	Static	2581.65	Sierrita
					6/15/17		188.00	Dynamic	2560.00	Sierrita
					12/6/17		189.00	Static	2559.00	Sierrita
					11/29/18		251.40	Static	2496.60	Sierrita
FICO W-9	624024	3524132.883	501269.296	2851	6/15/17		225.25	Static	2625.75	Sierrita
					12/6/17		221.52	Static	2629.48	Sierrita
					6/8/18		226.65	Static	2624.35	Sierrita
					11/29/18		223.65	Static	2627.35	Sierrita
GV-01-GVDWID	603428	3522254.157	499812.869	2942.35	1/9/07		221.00		2721.35	Sierrita
					4/10/07		218.11		2724.24	Sierrita
					8/6/07		231.00		2711.35	Sierrita
					1/7/08		221.50		2720.85	Sierrita
					4/16/08		225.50		2716.85	Sierrita
					7/7/08		231.00		2711.35	Sierrita
					11/25/08		228.00		2714.35	Sierrita
					3/3/09		220.50		2721.85	Sierrita
					7/29/09		201.9		2740.45	Sierrita
					11/4/09		232.80		2709.55	Sierrita
					1/27/10		224.80		2717.55	Sierrita
					4/1/10		227.12		2715.23	Sierrita
					10/14/10		233.00		2709.35	Sierrita
					3/18/11		224.00		2718.35	Sierrita
					4/28/11		231.00		2711.35	Sierrita
					12/7/11		233.20		2709.15	Sierrita
					3/14/12		234.25		2708.10	Sierrita
					6/7/12		242.28		2700.07	Sierrita
					8/29/12		231.00		2711.35	Sierrita
					11/15/12		239.00		2703.35	Sierrita
					1/29/13		238.61		2703.74	Sierrita
					5/16/13		254.09		2688.26	Sierrita
					7/11/13		248.19		2694.16	Sierrita
					7/21/14		229.00		2713.35	Sierrita
					10/14/14		257.60	Static	2684.75	Sierrita
					1/12/15		255.60	Static ²	2686.75	Sierrita
					7/22/15		261.03	Static ²	2681.32	Sierrita
					10/21/15		354.60	Dynamic	2587.75	Sierrita
					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
					11/3/16		261.00	Static ²	2681.35	Sierrita
					1/19/17		257.00	Static ²	2685.35	Sierrita
					5/15/17		258.25	Static ²	2684.10	Sierrita
					7/13/17		264.20	Static ²	2678.15	Sierrita
					10/25/17		267.43	Static ²	2674.92	Sierrita
					2/13/18		255.82	Static ²	2686.53	Sierrita
					8/15/18		265.42	Static ²	2676.93	Sierrita
					11/28/18		259.31	Static ²	2683.04	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
GV-01-PCWW	509603	3529924.983	502867.776	2789.65	4/2/15		176.50	Static	2613.15	Sierrita
					10/20/15		176.70	Static	2612.95	Sierrita
					4/21/16		176.60	Static	2613.05	Sierrita
					10/20/16		176.40	Static	2613.25	Sierrita
					4/20/17		176.85	Static	2612.80	Sierrita
					10/18/17		176.55	Static	2613.10	Sierrita
					4/19/18		176.60	Static	2613.05	Sierrita
					10/3/18		177.00	Static	2612.65	Sierrita
GV-02-GVDWID	603429	3521654.457	499786.207	2930.47	1/9/07		185.30		2745.17	Sierrita
					4/10/07		187.10		2743.37	Sierrita
					7/11/07		200.45		2730.02	Sierrita
					10/3/07		199.33		2731.14	Sierrita
					1/7/08		190.62		2739.85	Sierrita
					4/16/08		194.95		2735.52	Sierrita
					7/7/08		201.05		2729.42	Sierrita
					11/25/08		199.58		2730.89	Sierrita
					2/4/09		192.88		2737.59	Sierrita
					7/29/09		231.9		2698.57	Sierrita
					11/4/09		203.50		2726.97	Sierrita
					1/27/10		195.15		2735.32	Sierrita
					4/1/10		197.10		2733.37	Sierrita
					7/28/10		202.76		2727.71	Sierrita
					10/14/10		204.55		2725.92	Sierrita
					1/20/11		198.88		2731.59	Sierrita
					4/28/11		204.77		2725.70	Sierrita
					7/20/11		206.14		2724.33	Sierrita
					12/7/11		204.43		2726.04	Sierrita
					3/14/12		204.35		2726.12	Sierrita
					6/7/12		211.76		2718.71	Sierrita
					8/29/12		219.00		2711.47	Sierrita
					11/15/12		214.51		2715.96	Sierrita
					1/29/13		209.49		2720.98	Sierrita
					5/16/13		219.48		2710.99	Sierrita
					7/11/13		220.75		2709.72	Sierrita
					1/10/14		221.29		2709.18	Sierrita
					10/14/14		229.70	Static	2700.77	Sierrita
					1/12/15		221.90	Static ²	2708.57	Sierrita
					4/15/15		223.10	Static ²	2707.37	Sierrita
					10/21/15		229.80	Static ²	2700.67	Sierrita
					1/19/16	UTM			NA	Sierrita
					4/20/16		233.00	Static ²	2697.47	Sierrita
					8/24/16		246.00	Static	2684.47	Sierrita
					11/3/16		254.00	Static	2676.47	Sierrita
					1/19/17		248.00	Static	2682.47	Sierrita
					5/15/17		248.00	Static	2682.47	Sierrita
					7/13/17		248.00	Static	2682.47	Sierrita
					10/25/17		248.00	Static	2682.47	Sierrita
					2/13/18		219.80	Static	2710.67	Sierrita
					8/15/18		228.42	Static ²	2702.05	Sierrita
					11/28/18		223.90	Static ²	2706.57	Sierrita
GV-02-PCWW	509604	3530219.769	502678.593	2775.42	4/2/15		164.30	Static	2611.12	Sierrita
					10/20/15		164.20	Static	2611.22	Sierrita
					4/21/16		164.10	Static	2611.32	Sierrita
					10/20/16		164.10	Static	2611.32	Sierrita
					5/8/17		165.80	Static	2609.62	Sierrita
					10/18/17		164.20	Static	2611.22	Sierrita
					4/30/18		164.20	Static	2611.22	Sierrita
					10/3/18		164.70	Static	2610.72	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
GV-SI-GVDWID	208825	3519509.930	497227.175	3042.65	1/9/07	237.50			2805.15	Sierrita
					4/10/07	238.55			2804.10	Sierrita
					8/6/07	240.31			2802.34	Sierrita
					10/3/07	244.40			2798.25	Sierrita
					1/7/08	237.75			2804.90	Sierrita
					4/16/08	247.55			2795.10	Sierrita
					8/14/08	245.50			2797.15	Sierrita
					11/6/08	246.00			2796.65	Sierrita
					2/4/09	247.46			2795.19	Sierrita
					4/1/10	247.60			2795.05	Sierrita
					4/28/11	257.00			2785.65	Sierrita
					6/20/12	257.92			2784.73	Sierrita
					5/16/13	267.53			2775.12	Sierrita
					4/15/15	274.38			2768.27	Sierrita
					10/21/15	269.46			2773.19	Sierrita
					4/20/16	277.00			2765.65	Sierrita
					11/3/16	267.00			2775.65	Sierrita
					5/31/17	276.80			2765.85	Sierrita
HAVEN GOLF	515867	3526386.069	501651.035	ND	5/29/12	220.00			NA	Sierrita
I-10	608525	3528469.536	497797.957	3210.58	1/15/07	655.89			2554.69	Sierrita
					4/16/07	630.00			2580.58	Sierrita
					7/10/07	656.00			2554.58	Sierrita
					1/8/08	659.58			2551.00	Sierrita
					4/14/08	658.80			2551.78	Sierrita
					7/21/08	657.10			2553.48	Sierrita
					10/24/08	660.82			2549.76	Sierrita
					5/12/09	660.80			2549.78	Sierrita
					6/15/12	662.39			2548.19	Sierrita
					6/11/13	661.26			2549.32	Sierrita
					4/30/14	668.91	Dynamic		2541.67	Sierrita
					9/11/14	670.20			2540.38	Sierrita
					5/14/15	687.57	Static		2523.01	Sierrita
					11/18/15	695.41	Static		2515.17	Sierrita
					6/23/16	699.03	Static		2511.55	Sierrita
					12/8/16	702.30	Static		2508.28	Sierrita
					5/17/17	704.70	Static		2505.88	Sierrita
					11/9/17	710.50	Static		2500.08	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-1	623129	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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-1	623129	3521277.779	496905.892	3144.69	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
					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
					2/11/16		385.30	Static	2759.39	BW
					3/4/16		440.20	Dynamic	2704.49	BW
					4/29/16		441.70	Dynamic	2702.99	Sierrita
					10/5/16		437.30	Dynamic	2707.39	BW
					4/20/17		434.20	Dynamic	2710.49	Sierrita
					7/20/17		381.25	Static	2763.44	BW
					10/25/17		429.65	Dynamic	2715.04	BW
					5/22/18		364.55	Static	2780.14	BW
					9/25/18		442.50	Dynamic	2702.19	BW
					11/26/18		385.10	Static	2759.59	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-2	623130	3521360.552	497485.462	3098.29	12/16/06		404.30		2693.99	Sierrita
					2/24/07		406.80		2691.49	Sierrita
					5/4/07		344.00		2754.29	Sierrita
					7/31/07		381.00		2717.29	Sierrita
IW-2A	216464	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
					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

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-2A	216464	3521337.953	497469.228	3112.28	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
					2/11/16		375.30	Static	2736.98	BW
					3/4/16		414.30	Dynamic	2697.98	BW
					4/29/16		397.20	Dynamic	2715.08	Sierrita
					10/5/16		424.30	Dynamic	2687.98	BW
					4/19/17		365.33	Static	2746.95	Sierrita
					7/20/17		366.85	Static	2745.43	BW
					10/25/17		357.50	Static	2754.78	BW
					5/22/18		411.50	Dynamic	2700.78	BW
					9/25/18		404.80	Dynamic	2707.48	BW
					11/26/18		370.10	Static	2742.18	BW
IW-3A	201732	3521723.533	497380.342	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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-3A	201732	3521723.533	497380.342	3121.45	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
					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
					2/11/16		387.50	Static	2733.95	BW
					3/4/16		381.95	Static	2739.50	BW
					4/29/16		372.45	Static	2749.00	Sierrita
					10/5/16		367.25	Static	2754.20	BW
					4/20/17		472.08	Dynamic	2649.37	Sierrita
					10/25/17		374.90	Static	2746.55	BW
					5/22/18		378.30	Static	2743.15	BW
					9/25/18		458.20	Dynamic	2663.25	BW
					11/26/18		388.80	Static	2732.65	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-4	623132	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
					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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-4	623132	3522465.879	497371.7	3137.06	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		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
					2/11/16		385.90	Static	2751.16	BW
					3/4/16		419.10	Dynamic	2717.96	BW
					4/29/16		380.50	Static	2756.56	Sierrita
					10/5/16		377.00	Static	2760.06	BW
					4/19/17		374.60	Static	2762.46	Sierrita
					7/20/17		378.00	Static	2759.06	BW
					10/25/17		369.60	Static	2767.46	BW
					5/22/18		372.10	Static	2764.96	BW
					9/25/18		440.20	Dynamic	2696.86	BW
					11/26/18		374.95	Static	2762.11	BW
IW-5	623133	3522814.850	497369.528	3137.65	5/13/09		375.90		2761.75	Sierrita
					4/12/10		430.60		2707.05	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-5A	219131	3522723.000	497442.700	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
					5/30/14		511.90	Dynamic		Sierrita
					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
					2/11/16		389.90	Static	2701.57	BW
					3/4/16		388.12	Static	2703.35	BW
					4/29/16		386.30	Static	2705.17	Sierrita
					10/5/16		381.03	Static	2710.44	BW
					4/19/17		385.85	Static	2705.62	Sierrita
					7/20/17		383.75	Static	2707.72	BW
					10/25/17		379.55	Static	2711.92	BW
					5/22/18		379.60	Static	2711.87	BW
					9/25/18		380.75	Static	2710.72	BW
					11/26/18		382.50	Static	2708.97	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-6A	545565	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

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-6A	545565	3523708.756	497381.226	3132.26	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
					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
					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		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
					2/11/16		410.60	Static	2721.66	BW
					3/4/16		410.10	Static	2722.16	BW
					4/29/16		409.55	Static	2722.71	Sierrita
					10/5/16		406.30	Static	2725.96	BW
					4/18/17		412.91	Static	2719.35	Sierrita
					7/20/17		410.28	Static	2721.98	BW
					10/25/17		405.85	Static	2726.41	BW
					5/22/18		401.50	Static	2730.76	BW
					9/25/18		400.35	Static	2731.91	BW
					11/26/18		401.90	Static	2730.36	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-8	508236	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
					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

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Well Name	ADWR 55 Registry Number	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	3522020.520	497368.253	3122.19	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
					2/11/16		388.10	Static	2734.09	BW
					3/4/16		433.75	Dynamic	2688.44	BW
					4/29/16		431.90	Dynamic	2690.29	Sierrita
					10/5/16		424.75	Dynamic	2697.44	BW
					4/19/17		428.40	Dynamic	2693.79	Sierrita
					10/25/17		419.30	Dynamic	2702.89	BW
					5/22/18		422.70	Dynamic	2699.49	BW
					9/25/18		403.60	Dynamic	2718.59	BW
					11/26/18		383.05	Static	2739.14	BW
IW-9	508238	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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-9	508238	3522207.639	497369.791	3102.94	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
					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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-9	508238	3522207.639	497369.791	3102.94	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
					2/11/16		364.20	Static	2738.74	BW
					3/4/16		361.32	Static	2741.62	BW
					4/29/16		358.88	Static	2744.06	Sierrita
					10/5/16		353.05	Static	2749.89	BW
					4/19/17		356.40	Static	2746.54	Sierrita
					10/25/17		349.95	Static	2752.99	BW
					5/22/18		541.60	Dynamic	2561.34	BW
					9/25/18		510.50	Dynamic	2592.44	BW
					11/26/18		358.80	Static	2744.14	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-10	508237	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
						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
					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

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-10	508237	3523122.199	497370.367	3129.64	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
					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		NA	Sierrita
					5/2/15		Obstructed		NA	Sierrita
					6/11/15		Obstructed		NA	Sierrita
					7/8/15		Obstructed		NA	Sierrita
					10/4/15		Obstructed		NA	Sierrita
					11/4/15		Obstructed		NA	Sierrita
					12/9/15		Obstructed		NA	Sierrita
					1/12/16		UTM		NA	BW
					2/11/16		UTM		NA	BW
					3/4/16		UTM		NA	BW
					4/29/16		UTM		NA	Sierrita
					10/5/16		UTM		NA	BW
					4/19/17	465.70		Dynamic	2663.94	Sierrita
					7/20/17	402.50		Static	2727.14	BW
					10/25/17	393.90		Static	2735.74	BW
					5/22/18	389.70		Static	2739.94	BW
					9/25/18	387.60		Static	2742.04	BW
					11/26/18	388.80		Static	2740.84	BW
IW-11	508235	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

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-11	508235	3523428.954	497371.414	3127.20	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
					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

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Water Elevation Data

Well Name	ADWR 55 Registry Number	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	3523428.954	497371.414	3127.20	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		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			NA	Sierrita
					11/4/15	523.40		Dynamic	2603.80	Sierrita
					12/9/15	UTM			NA	Sierrita
					1/12/16	540.70		Dynamic	2586.50	Sierrita
					2/11/16	533.30		Dynamic	2593.90	BW
					3/4/16	529.30		Dynamic	2597.90	BW
					4/29/16	397.80		Static	2729.40	Sierrita
					10/5/16	398.25		Static	2728.95	BW
					4/18/17	541.34		Dynamic	2585.86	Sierrita
					7/20/17	399.72		Static	2727.48	BW
					10/25/17	507.80		Dynamic	2619.40	BW
					5/22/18	500.90		Dynamic	2626.30	BW
					9/25/18	387.80		Static	2739.40	BW
					11/26/18	389.45		Static	2737.75	BW
IW-12	545555	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
					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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-12	545555	3523969.869	497364.911	3138.18	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		NA	Sierrita
					11/4/15		481.30	Dynamic	2656.88	Sierrita
					12/9/15		UTM		NA	Sierrita
					1/12/16		504.25	Dynamic	2633.93	Sierrita
					2/11/16		464.25	Dynamic	2673.93	BW
					3/4/16		472.65	Dynamic	2665.53	BW
					4/29/16		499.70	Dynamic	2638.48	Sierrita
					10/5/16		389.60	Static	2748.58	BW
					4/18/17		434.65	Dynamic	2703.53	Sierrita
					7/20/17		386.80	Static	2751.38	BW
					10/25/17		462.95	Dynamic	2675.23	BW
					5/22/18		378.05	Static	2760.13	BW
					9/25/18		376.65	Static	2761.53	BW
					11/26/18		378.95	Static	2759.23	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-13	545556	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

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-13	545556	3524166.673	497363.820	3143.35	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
					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
					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
					2/11/16	402.40		Static	2740.95	BW
					3/4/16	401.80		Static	2741.55	BW
					4/29/16	402.35		Static	2741.00	Sierrita
					10/5/16	399.82		Static	2743.53	BW
					4/18/17	400.92		Static	2742.43	Sierrita
					7/20/17	400.90		Static	2742.45	BW
					10/25/17	398.50		Static	2744.85	BW
					5/22/18	395.40		Static	2747.95	BW
					9/25/18	383.80		Static	2759.55	BW
					11/26/18	394.35		Static	2749.00	BW

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-14	545557	3524373.122	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
					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

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-14	545557	3524373.122	497367.126	3146.42	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
					2/11/16		459.60	Dynamic	2686.82	BW
					3/4/16		400.75	Static	2745.67	BW
					4/29/16		459.50	Dynamic	2686.92	Sierrita
					10/5/16		394.05	Static	2752.37	BW
					4/18/17		471.72	Dynamic	2674.70	Sierrita
					7/20/17		459.55	Dynamic	2686.87	BW
					10/25/17		393.45	Static	2752.97	BW
					5/22/18		389.10	Static	2757.32	BW
					9/25/18		387.45	Static	2758.97	BW
					11/26/18		387.70	Static	2758.72	BW

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-15	545558	3524567.261	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
						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
					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

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-15	545558	3524567.261	497372.873	3152.02	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
					2/11/16		491.40	Dynamic	2660.62	BW
					3/4/16		404.10	Static	2747.92	BW
					4/29/16		498.30	Dynamic	2653.72	Sierrita
					10/5/16		UTM		NA	BW
					4/18/17		491.00	Dynamic	2661.02	Sierrita
					7/20/17		401.10	Static	2750.92	BW
					10/25/17		399.65	Static	2752.37	BW
					5/22/18		398.50	Static	2753.52	BW
					9/25/18		396.55	Static	2755.47	BW
					11/26/18		397.15	Static	2754.87	BW

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-16	545559	3524782.868	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

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-16	545559	3524782.868	497370.651	3162.85	6/25/13	407.10		Static		BW, 2015a
					8/1/13	406.93		Static		BW, 2015a
					10/28/13	408.18		Static		BW, 2015a
						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
					10/5/16	413.48		Static	2749.37	BW
					4/18/17	412.82		Static	2750.03	Sierrita
					7/20/17	412.55		Static	2750.30	BW
					10/25/17	412.25		Static	2750.60	BW
					5/22/18	411.55		Static	2751.30	BW
					9/25/18	410.79		Static	2752.06	BW
					11/26/18	411.00		Static	2751.85	BW
IW-17	545560	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

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-17	545560	3525002.869	497373.717	3160.76	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
					10/5/16		444.65	Static	2716.11	BW
					4/18/17		444.20	Static	2716.56	Sierrita
					7/20/17		444.30	Static	2716.46	BW
					10/25/17		443.80	Static	2716.96	BW
					5/22/18		443.90	Static	2716.86	BW
					9/25/18		443.45	Static	2717.31	BW
					11/26/18		443.45	Static	2717.31	BW

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-18	545561	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

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-18	545561	3525169.771	497374.056	3171.15	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		NA	Sierrita
					10/7/15		UTM		NA	Sierrita
					1/12/16		461.82	Static	2709.33	Sierrita
					4/29/16		461.72	Static	2709.43	Sierrita
					10/5/16		462.02	Static	2709.13	BW
					4/18/17		461.42	Static	2709.73	Sierrita
					7/20/17		461.95	Static	2709.20	BW
					5/22/18		461.80	Static	2709.35	BW
					11/26/18		DRY	Static	DRY	BW
IW-19	545562	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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-19	545562	3525343.392	497373.630	3155.39	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
					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
					2/11/16		506.30	Dynamic	2649.09	BW
					3/4/16		439.55	Static	2715.84	BW
					4/29/16		435.95	Static	2719.44	Sierrita
					10/5/16		506.30	Dynamic	2649.09	BW
					4/18/17		483.60	Dynamic	2671.79	Sierrita
					7/20/17		506.00	Dynamic	2649.39	BW
					5/22/18		502.70	Dynamic	2652.69	BW

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-20	545563	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
					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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-20	545563	3525568.770	497364.739	3164.21	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
					2/11/16		439.15	Static	2725.06	BW
					3/4/16		438.70	Static	2725.51	BW
					4/29/16		438.88	Static	2725.33	Sierrita
					10/5/16		435.00	Static	2729.21	BW
					4/18/17		432.09	Static	2732.12	Sierrita
					7/20/17		431.00	Static	2733.21	BW
					10/25/17		429.22	Static	2734.99	BW
					5/22/18		428.80	Static	2735.41	BW
					9/25/18		428.70	Static	2735.51	BW
					11/26/18		429.50	Static	2734.71	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-21	545564	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
					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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-21	545564	3525773.266	497374.585	3171.37	1/12/16		UTM		NA	Sierrita
					2/11/16		511.10	Dynamic	2660.27	BW
					3/4/16		437.10	Static	2734.27	BW
					4/29/16		510.10	Dynamic	2661.27	Sierrita
					10/5/16		436.30	Static	2735.07	BW
					4/18/17		431.37	Static	2740.00	Sierrita
					7/20/17		430.23	Static	2741.14	BW
					10/25/17		428.70	Static	2742.67	BW
					5/22/18		425.80	Static	2745.57	BW
IW-22	200554	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
					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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-22	200554	3523273.592	497369.590	3128.25	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
					2/11/16		464.35	Dynamic	2663.90	BW
					3/4/16		412.40	Static	2715.85	BW
					4/29/16		456.20	Dynamic	2672.05	Sierrita
					10/5/16		401.17	Static	2727.08	BW
					4/18/17		463.95	Dynamic	2664.30	Sierrita
					7/20/17		449.55	Dynamic	2678.70	BW
					10/25/17		394.60	Static	2733.65	BW
					5/22/18		389.20	Static	2739.05	BW
					9/25/18		387.50	Static	2740.75	BW
					11/26/18		388.30	Static	2739.95	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-23	200555	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
					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

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-23	200555	3522970.788	497369.237	3128.53	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		NA		Sierrita
					11/4/15		468.00	Dynamic	2660.53	Sierrita
					12/9/15		383.50	Static	2745.03	Sierrita
					1/12/16	UTM		NA		Sierrita
					2/11/16		377.40	Static	2751.13	BW
					3/4/16		376.30	Static	2752.23	BW
					4/29/16		372.40	Static	2756.13	Sierrita
					10/5/16		369.75	Static	2758.78	BW
					4/19/17		375.15	Static	2753.38	Sierrita
					7/20/17		372.90	Static	2755.63	BW
					10/25/17		367.40	Static	2761.13	BW
					5/22/18		365.00	Static	2763.53	BW
					9/25/18		367.20	Static	2761.33	BW
					11/26/18		368.25	Static	2760.28	BW
IW-24	200556	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

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-24	200556	3522633.594	497371.670	3113.29	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
					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
					2/11/16		401.60	Dynamic	2711.69	BW
					3/4/16		394.75	Dynamic	2718.54	BW
					4/29/16		389.90	Dynamic	2723.39	Sierrita
					10/5/16		349.62	Static	2763.67	BW
					4/19/17		390.30	Dynamic	2722.99	Sierrita
					7/20/17		349.20	Static	2764.09	BW
					10/25/17		345.15	Static	2768.14	BW
					5/22/18		346.90	Static	2766.39	BW
					9/25/18		447.85	Static	2665.44	BW
					11/26/18		349.85	Static	2763.44	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-25	219596	3521718.000	497640.600	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
					2/11/16		424.75	Dynamic	2666.91	BW
					3/4/16		417.30	Dynamic	2674.36	BW
					4/29/16		416.90	Dynamic	2674.76	Sierrita
					10/5/16		413.50	Dynamic	2678.16	BW
					4/19/17		425.50	Dynamic	2666.16	Sierrita
					7/20/17		405.65	Dynamic	2686.01	BW
					10/25/17		413.47	Dynamic	2678.19	BW
					5/22/18		412.90	Dynamic	2678.76	BW
					9/25/18		419.40	Dynamic	2672.26	BW
					11/26/18		379.70	Static	2711.96	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-26	219143	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
					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
					2/11/16		437.40	Dynamic	2662.63	BW
					3/4/16		431.20	Dynamic	2668.83	BW
					4/29/16		428.00	Dynamic	2672.03	Sierrita
					10/5/16		378.60	Static	2721.43	BW
					4/19/17		423.20	Dynamic	2676.83	Sierrita
					7/20/17		414.45	Dynamic	2685.58	BW
					10/25/17		412.90	Dynamic	2687.13	BW
					5/22/18		416.60	Dynamic	2683.43	BW
					9/25/18		416.70	Dynamic	2683.33	BW
					11/26/18		382.20	Static	2717.83	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-27	219136	3522650.014	497600.5655	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
					2/11/16		464.25	Dynamic	2656.08	BW
					3/4/16		458.35	Dynamic	2661.98	BW
					4/29/16		458.80	Dynamic	2661.53	Sierrita
					10/5/16		396.75	Static	2723.58	BW
					4/19/17		450.02	Dynamic	2670.31	Sierrita
					7/20/17		439.65	Dynamic	2680.68	BW
					10/25/17		438.60	Dynamic	2681.73	BW
					5/22/18		432.40	Dynamic	2687.93	BW
					9/25/18		428.55	Dynamic	2691.78	BW
					11/26/18		396.25	Static	2724.08	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
IW-28	219137	3523174.867	497652.833	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
					2/11/16		439.20	Dynamic	2671.51	BW
					3/4/16		UTM		NA	BW
					4/29/16		435.45	Dynamic	2675.26	Sierrita
					10/5/16		404.35	Static	2706.36	BW
					4/19/17		434.52	Dynamic	2676.19	Sierrita
					7/20/17		433.65	Dynamic	2677.06	BW
					10/25/17		429.30	Dynamic	2681.41	BW
					5/22/18		424.70	Dynamic	2686.01	BW
					9/25/18		421.50	Dynamic	2689.21	BW
					11/26/18		398.40	Static	2712.31	BW

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Well Name	ADWR 55 Registry Number	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	3523070.624	498081.4978	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		NA		Sierrita
					2/11/16		437.60	Dynamic	2650.40	BW
					3/4/16		437.52	Dynamic	2650.48	BW
					4/29/16		434.10	Dynamic	2653.90	Sierrita
					10/5/16		437.55	Dynamic	2650.45	BW
					4/19/17		438.20	Dynamic	2649.80	Sierrita
					7/20/17		437.60	Dynamic	2650.40	BW
					10/25/17		437.85	Dynamic	2650.15	BW
					5/22/18		437.60	Dynamic	2650.40	BW
					9/25/18		437.80	Dynamic	2650.20	BW
					11/26/18		404.95	Static	2683.05	BW
M-5	87387	3530799.154	499640.485	2994.14	6/16/15		490.32	Static	2503.82	Sierrita
					11/17/15		494.45	Static	2499.69	Sierrita
					6/15/16		494.60	Static	2499.54	Sierrita
					12/8/16		494.92	Static	2499.22	Sierrita
					5/17/17		499.12	Static	2495.02	Sierrita
					11/13/17		507.50	Static	2486.64	Sierrita
					6/8/18		508.92	Static	2485.22	Sierrita
					11/14/18		513.21	Static	2480.93	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	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-8	87390	3529692.237	499658.916	2996.96	1/15/07	460.92			2536.04	Sierrita
					4/16/07	458.83			2538.13	Sierrita
					7/10/07	462.57			2534.39	Sierrita
					10/8/07	465.65			2531.31	Sierrita
					1/9/08	464.68			2532.28	Sierrita
					4/14/08	462.50			2534.46	Sierrita
					7/25/08	466.18			2530.78	Sierrita
					10/28/08	468.82			2528.14	Sierrita
					1/20/09	466.25			2530.71	Sierrita
					5/12/09	465.10			2531.86	Sierrita
					11/5/09	465.60			2531.36	Sierrita
					5/28/10	466.61			2530.35	Sierrita
					10/21/10	471.61			2525.35	Sierrita
					6/15/11	467.35			2529.61	Sierrita
					11/17/11	471.23			2525.73	Sierrita
					6/29/12	464.98			2531.98	Sierrita
					10/29/12	472.66			2524.30	Sierrita
					4/17/13	466.32			2530.64	Sierrita
					5/21/13	464.70			2532.26	Sierrita
					10/29/13	472.55			2524.41	Sierrita
					3/12/14	472.63			2524.33	Sierrita
					4/22/14	473.69			2523.27	Sierrita
					5/8/14	473.53			2523.43	Sierrita
					6/9/14	476.70	Static		2520.26	Sierrita
					7/28/14	479.96			2517.00	Sierrita
					8/7/14	480.13			2516.83	Sierrita
					9/8/14	481.99	Static		2514.97	Sierrita
					10/28/14	484.31			2512.65	Sierrita
					11/4/14	484.66			2512.30	Sierrita
					12/16/14	484.74	Static		2512.22	Sierrita
					1/29/15	484.88	Static		2512.08	Sierrita
					2/27/15	484.93	Static		2512.03	Sierrita
					3/19/15	484.02	Static		2512.94	Sierrita
					4/6/15	484.53	Static		2512.43	Sierrita
					5/21/15	486.24	Static		2510.72	Sierrita
					6/1/15	486.56	Static		2510.40	Sierrita
					7/23/15	UTM			NA	Sierrita
					8/31/15	UTM			NA	Sierrita
					10/26/15	UTM			NA	Sierrita
					11/17/15	UTM			NA	Sierrita
					1/7/16	UTM			NA	Sierrita
					2/9/16	UTM			NA	Sierrita
					3/7/16	UTM			NA	Sierrita
					6/8/16	UTM			NA	Sierrita
					8/25/16	496.75	Static		2500.21	Sierrita
					10/27/16	499.00	Static		2497.96	Sierrita
					1/17/17	499.46	Static		2497.50	Sierrita
					5/8/17	499.98	Static		2496.98	Sierrita
					7/10/17	504.25	Static		2492.71	Sierrita
					10/2/17	507.95	Static		2489.01	Sierrita
					1/9/18	507.59	Static		2489.37	Sierrita
					3/29/18	507.50	Static		2489.46	Sierrita
					5/9/18	508.42	Static		2488.54	Sierrita
					11/6/18	514.12	Static		2482.84	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
M-9	501652	3530303.806	499984.132	2971.02	7/18/06	442.70			2528.32	Sierrita
					1/15/07	445.76			2525.26	Sierrita
					7/10/07	450.75			2520.27	Sierrita
					10/8/07	453.15			2517.87	Sierrita
					1/8/08	447.50			2523.52	Sierrita
					4/14/08	448.50			2522.52	Sierrita
					7/21/08	454.27			2516.75	Sierrita
					10/28/08	457.72			2513.30	Sierrita
					1/20/09	450.78			2520.24	Sierrita
					5/13/09	452.00			2519.02	Sierrita
					6/16/10	453.85			2517.17	Sierrita
					6/2/11	452.35			2518.67	Sierrita
					6/27/12	455.78			2515.24	Sierrita
					5/1/13	473.80			2497.22	Sierrita
					3/12/14	483.66			2487.36	Sierrita
					4/22/14	464.39			2506.63	Sierrita
					5/8/14	464.37			2506.65	Sierrita
					6/9/14	457.78			2513.24	Sierrita
					7/28/14	461.34			2509.68	Sierrita
					8/7/14	462.06			2508.96	Sierrita
					9/8/14	463.43	Static		2507.59	Sierrita
					10/28/14	464.55			2506.47	Sierrita
					11/4/14	466.10			2504.92	Sierrita
					12/16/14	467.81	Static		2503.21	Sierrita
					1/20/15	461.04	Static		2509.98	Sierrita
					2/27/15	465.19	Static		2505.83	Sierrita
					3/19/15	460.12	Static		2510.90	Sierrita
					4/6/15	460.84	Static		2510.18	Sierrita
					5/21/15	461.18	Static		2509.84	Sierrita
					6/1/15	461.29	Static		2509.73	Sierrita
					7/23/15	467.84	Static		2503.18	Sierrita
					8/31/15	469.81	Static		2501.21	Sierrita
					11/17/15	470.74	Static		2500.28	Sierrita
					1/7/16	466.20	Static		2504.82	Sierrita
					2/9/16	465.51	Static		2505.51	Sierrita
					3/7/16	465.39	Static		2505.63	Sierrita
					4/25/16	466.80	Static		2504.22	Sierrita
					8/24/16	473.63	Static		2497.39	Sierrita
					12/8/16	474.77	Static		2496.25	Sierrita
					1/11/17	471.26	Static		2499.76	Sierrita
					5/8/17	474.45	Static		2496.57	Sierrita
					7/10/17	479.57	Static		2491.45	Sierrita
					10/2/17	483.45	Static		2487.57	Sierrita
					1/9/18	480.40	Static		2490.62	Sierrita
					5/9/18	483.24	Static		2487.78	Sierrita
					11/14/18	489.12	Static		2481.90	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
M-10	501653	3530143.001	499658.969	3002.69	7/18/06		472.72		2529.97	Sierrita
					1/15/07		473.65		2529.04	Sierrita
					4/16/07		471.47		2531.22	Sierrita
					7/10/07		477.16		2525.53	Sierrita
					10/8/07		478.45		2524.24	Sierrita
					1/8/08		477.60		2525.09	Sierrita
					4/14/08		475.48		2527.21	Sierrita
					7/21/08		480.15		2522.54	Sierrita
					10/28/08		483.70		2518.99	Sierrita
					1/20/09		475.85		2526.84	Sierrita
					5/12/09		478.80		2523.89	Sierrita
					11/5/09		481.20		2521.49	Sierrita
					6/4/10		480.29		2522.40	Sierrita
					10/21/10		486.40		2516.29	Sierrita
					5/10/11		478.33		2524.36	Sierrita
					11/16/11		484.66		2518.03	Sierrita
					6/25/12		482.73		2519.96	Sierrita
					10/29/12		486.64		2516.05	Sierrita
					4/17/13		478.63		2524.06	Sierrita
					10/29/13		486.07		2516.62	Sierrita
					4/22/14		483.06	Static	2519.63	Sierrita
					11/4/14		493.67	Static	2509.02	Sierrita
					4/6/15		491.46	Static	2511.23	Sierrita
					10/26/15	UTM			NA	Sierrita
					2/9/16	UTM			NA	Sierrita
					6/8/16	UTM			NA	Sierrita
					12/5/16		503.92	Static	2498.77	Sierrita
					1/17/17		504.16	Static	2498.53	Sierrita
					5/8/17		505.32	Static	2497.37	Sierrita
					7/10/17		510.00	Static	2492.69	Sierrita
					10/2/17		513.65	Static	2489.04	Sierrita
					1/9/18		512.06	Static	2490.63	Sierrita
					5/9/18		513.21	Static	2489.48	Sierrita
					11/6/18		520.04	Static	2482.65	Sierrita
M-11	501654	3530757.848	500267.433	2938.82	6/16/15		433.11	Static	2505.71	Sierrita
					11/17/15		435.43	Static	2503.39	Sierrita
					6/15/16		437.35	Static	2501.47	Sierrita
					12/8/16		439.08	Static	2499.74	Sierrita
					5/17/17		455.78	Static	2483.04	Sierrita
					11/9/17		449.40	Static	2489.42	Sierrita
					6/8/18		451.91	Static	2486.91	Sierrita
					11/14/18		454.89	Static	2483.93	Sierrita
M-13	508428	3530907.067	498739.360	3077.00	6/18/15		569.71	Static	2507.29	Sierrita
					11/17/15		574.92	Static	2502.08	Sierrita
					6/15/16		573.72	Static	2503.28	Sierrita
					12/8/16		575.10	Static	2501.90	Sierrita
					5/17/17		577.90	Static	2499.10	Sierrita
					11/9/17		587.07	Static	2489.93	Sierrita
					6/8/18		587.71	Static	2489.29	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
M-20	906595	3528491.771	499082.070	3054.00	7/18/06		484.18		2569.82	Sierrita
					1/15/07		489.14		2564.86	Sierrita
					7/10/07		486.70		2567.30	Sierrita
					7/12/07		493.26		2560.74	Sierrita
					1/9/08		495.80		2558.20	Sierrita
					4/14/08		494.22		2559.78	Sierrita
					7/25/08		493.70		2560.30	Sierrita
					10/28/08		498.00		2556.00	Sierrita
					1/20/09		497.75		2556.25	Sierrita
					5/12/09		496.80		2557.20	Sierrita
					5/28/10		498.51		2555.49	Sierrita
					5/9/11		499.14		2554.86	Sierrita
					6/26/12		500.50		2553.50	Sierrita
					4/23/13		499.65		2554.35	Sierrita
					4/22/14		511.42	Static	2542.58	Sierrita
					4/27/15		529.31	Static	2524.69	Sierrita
					11/18/15		536.18	Static	2517.82	Sierrita
					4/26/16		538.43	Static	2515.57	Sierrita
					12/8/16		539.96	Static	2514.04	Sierrita
					5/8/17		545.90	Static	2508.10	Sierrita
					11/13/17		553.71	Static	2500.29	Sierrita
					5/14/18		553.91	Static	2500.09	Sierrita
					6/21/18		556.53	Static	2497.47	Sierrita
					11/14/18		558.51	Static	2495.49	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MC-1	221660	3525205.004	498909.7433	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		NA	Sierrita
					2/11/16		481.30	Dynamic	2557.32	BW
					3/4/16		482.20	Dynamic	2556.42	BW
					4/8/16		483.60	Dynamic	2555.02	Sierrita
					10/5/16		488.55	Dynamic	2550.07	BW
					4/17/17		491.06	Dynamic	2547.56	Sierrita
					7/20/17		492.05	Dynamic	2546.57	BW
					10/25/17		494.03	Dynamic	2544.59	BW
					5/22/18		493.15	Dynamic	2545.47	BW
					9/25/18		493.80	Dynamic	2544.82	BW
					11/26/18		495.40	Dynamic	2543.22	BW

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MC-2	221761	3526364.957	499370.0612	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	
					2/11/16	468.35	Dynamic	2539.93	BW	
					3/4/16	469.40	Dynamic	2538.88	BW	
					4/8/16	468.15	Dynamic	2540.13	Sierrita	
					10/5/16	476.00	Dynamic	2532.28	BW	
					4/18/17	478.55	Dynamic	2529.73	Sierrita	
					7/20/17	491.25	Static	2517.03	BW	
					10/25/17	482.35	Dynamic	2525.93	BW	
					5/22/18	473.72	Static	2534.56	BW	

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MC-3	221661	3527484.047	498844.3888	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		BW, 2015a	
					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
					2/11/16		542.04	Dynamic	2520.29	BW
					3/4/16		542.70	Dynamic	2519.63	BW
					4/8/16		543.60	Dynamic	2518.73	Sierrita
					10/5/16		548.30	Dynamic	2514.03	BW
					4/17/17		550.68	Dynamic	2511.65	Sierrita
					7/20/17		547.57	Static	2514.76	BW
					10/25/17		554.03	Dynamic	2508.30	BW
					5/22/18		552.11	Static	2510.22	BW
					9/25/18		555.70	Dynamic	2506.63	BW
					11/26/18		558.25	Dynamic	2504.08	BW

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MC-4	220842	3527783.668	498585.3043	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		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
					2/11/16		587.55	Dynamic	2508.49	BW
					3/4/16		588.35	Dynamic	2507.69	BW
					4/8/16		589.21	Dynamic	2506.83	Sierrita
					10/5/16		594.10	Dynamic	2501.94	BW
					4/17/17		596.63	Dynamic	2499.41	Sierrita
					7/20/17		598.30	Dynamic	2497.74	BW
					10/25/17		600.50	Dynamic	2495.54	BW
					5/22/18		603.80	Dynamic	2492.24	BW
					9/25/18		603.40	Dynamic	2492.64	BW
					11/26/18		603.50	Dynamic	2492.54	BW

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-1	803629	3525872.911	497372.392	3179.27	11/21/06	443.90			2735.37	Sierrita
					1/10/07	444.15			2735.12	Sierrita
					4/20/07	442.70			2736.57	Sierrita
					7/3/07	441.33			2737.94	Sierrita
					11/8/07	440.10			2739.17	Sierrita
					1/28/08	439.97			2739.30	Sierrita
					4/24/08	440.44			2738.83	Sierrita
					8/7/08	439.65			2739.62	Sierrita
					11/14/08	441.45			2737.82	Sierrita
					2/17/09	440.90			2738.37	Sierrita
					6/2/09	440.70			2738.57	Sierrita
					4/13/10	438.62			2740.65	Sierrita
					4/19/11	436.65			2742.62	Sierrita
					4/25/12	436.95			2742.32	Sierrita
					4/29/14	448.90			2730.37	Sierrita
					6/4/15	460.67	Static		2718.60	Sierrita
					11/18/15	467.79	Static		2711.48	Sierrita
					6/15/16	470.26	Static		2709.01	Sierrita
					12/8/16	475.20	Static		2704.07	Sierrita
					5/24/17	463.63	Static		2715.64	Sierrita
					10/23/17	461.70	Static		2717.57	Sierrita
					6/11/18	461.50	Static		2717.77	Sierrita
					11/15/18	462.02	Static		2717.25	Sierrita
MH-3	803630	3525270.181	497472.430	3155.87	12/18/06	427.70			2728.17	Sierrita
					2/23/07	427.31			2728.56	Sierrita
					4/23/07	425.51			2730.36	Sierrita
					7/21/07	424.22			2731.65	Sierrita
					10/20/07	422.15			2733.72	Sierrita
					1/19/08	424.80			2731.07	Sierrita
					4/21/08	425.44			2730.43	Sierrita
					7/29/08	424.15			2731.72	Sierrita
					10/24/08	426.10			2729.77	Sierrita
					2/17/09	425.46			2730.41	Sierrita
					6/2/09	425.18			2730.69	Sierrita
					4/13/10	418.92			2736.95	Sierrita
					4/19/11	420.10			2735.77	Sierrita
					4/25/12	419.53			2736.34	Sierrita
					4/2/13	425.84			2730.03	Sierrita
					3/12/14	433.09			2722.78	Sierrita
					4/25/14	436.44			2719.43	Sierrita
					5/14/14	436.40			2719.47	Sierrita
					6/24/14	436.38			2719.49	Sierrita
					7/7/14	439.20			2716.67	Sierrita
					8/8/14	440.46			2715.41	Sierrita
					9/9/14	441.45	Static		2714.42	Sierrita
					10/28/14	441.25			2714.62	Sierrita
					11/26/14	441.30			2714.57	Sierrita
					12/20/14	441.33	Static		2714.54	Sierrita
					1/29/15	441.35	Static		2714.52	Sierrita
					2/27/15	441.33	Static		2714.54	Sierrita
					3/26/15	445.39	Static		2710.48	Sierrita
					4/29/15	445.36	Static		2710.51	Sierrita
					5/21/15	445.34	Static		2710.53	Sierrita
					6/3/15	445.40	Static		2710.47	Sierrita
					7/23/15	448.90	Static		2706.97	Sierrita
					8/25/15	450.58	Static		2705.29	Sierrita
					11/2/15	453.46	Static		2702.41	Sierrita
					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
					12/8/16	452.40	Static		2703.47	Sierrita
					5/24/17	449.91	Static		2705.96	Sierrita
					11/14/17	447.70	Static		2708.17	Sierrita
					6/11/18	449.02	Static		2706.85	Sierrita
					11/15/18	448.81	Static		2707.06	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-5	803632	3523725.339	497477.352	3123.47	11/21/06		389.22		2734.25	Sierrita
					1/12/07		390.70		2732.77	Sierrita
					4/20/07		391.60		2731.87	Sierrita
					7/3/07		391.66		2731.81	Sierrita
					11/8/07		392.95		2730.52	Sierrita
					1/28/08		391.40		2732.07	Sierrita
					4/24/08		390.30		2733.17	Sierrita
					8/7/08		391.55		2731.92	Sierrita
					11/14/08		391.98		2731.49	Sierrita
					2/17/09		391.33		2732.14	Sierrita
					6/2/09		391.30		2732.17	Sierrita
					4/13/10		381.47		2742.00	Sierrita
					4/18/11		387.96		2735.51	Sierrita
					6/14/12		398.80		2724.67	Sierrita
					5/23/13		403.59		2719.88	Sierrita
					4/29/14	Obstructed		NA	Sierrita	
					5/22/14	Obstructed		NA	Sierrita	
					5/28/14		408.22		2715.25	Sierrita
					6/16/15		408.45	Static	2715.02	Sierrita
					11/18/15		416.66	Static	2706.81	Sierrita
					6/15/16		411.64	Static	2711.83	Sierrita
					12/8/16		418.54	Static	2704.93	Sierrita
					5/24/17		415.96	Static	2707.51	Sierrita
					10/23/17		411.35	Static	2712.12	Sierrita
					6/11/18		407.50	Static	2715.97	Sierrita
					11/15/18		407.46	Static	2716.01	Sierrita
MH-6	803633	3522770.451	497436.646	3133.97	11/14/06		381.65		2752.32	Sierrita
					1/9/07		378.32		2755.65	Sierrita
					4/20/07		374.80		2759.17	Sierrita
					7/3/07		379.00		2754.97	Sierrita
					11/8/07		380.30		2753.67	Sierrita
					1/28/08		379.15		2754.82	Sierrita
					4/24/08		379.20		2754.77	Sierrita
					8/7/08		379.50		2754.47	Sierrita
					11/14/08		379.50		2754.47	Sierrita
					2/17/09		378.52		2755.45	Sierrita
					6/2/09		379.45		2754.52	Sierrita
					4/13/10		389.35		2744.62	Sierrita
					5/17/11		387.85		2746.12	Sierrita
					6/7/12		382.63		2751.34	Sierrita
					4/2/13		402.02		2731.95	Sierrita
					4/29/14		403.91		2730.06	Sierrita
					6/4/15		403.20	Static	2730.77	Sierrita
					11/18/15		412.41	Static	2721.56	Sierrita
					6/15/16		382.92	Static	2751.05	Sierrita
					12/8/16		388.37	Static	2745.60	Sierrita
					5/24/17		381.51	Static	2752.46	Sierrita
					10/23/17		376.60	Static	2757.37	Sierrita
					6/11/18		378.13	Static	2755.84	Sierrita
					11/15/18		380.67	Static	2753.30	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-7	803634	3522016.471	497502.475	3111.23	11/21/06		357.85		2753.38	Sierrita
					1/12/07		360.20		2751.03	Sierrita
					4/20/07		368.20		2743.03	Sierrita
					7/3/07		370.20		2741.03	Sierrita
					11/8/07		370.60		2740.63	Sierrita
					1/28/08		371.00		2740.23	Sierrita
					4/24/08		370.92		2740.31	Sierrita
					8/8/08		372.22		2739.01	Sierrita
					11/14/08		373.20		2738.03	Sierrita
					2/17/09		372.48		2738.75	Sierrita
					6/2/09		371.53		2739.70	Sierrita
					4/13/10		372.63		2738.60	Sierrita
					4/18/11		368.76		2742.47	Sierrita
					6/14/12		381.09		2730.14	Sierrita
					5/23/13		391.31		2719.92	Sierrita
					4/29/14		389.57		2721.66	Sierrita
					6/4/15		392.63	Static	2718.60	Sierrita
					11/18/15		393.67	Static	2717.56	Sierrita
					6/15/16		383.49	Static	2727.74	Sierrita
					12/8/16		394.20	Static	2717.03	Sierrita
					5/24/17		382.16	Static	2729.07	Sierrita
					10/23/17		373.60	Static	2737.63	Sierrita
					6/11/18		378.30	Static	2732.93	Sierrita
					11/15/18		384.10	Static	2727.13	Sierrita
MH-9	803635	3521252.607	496438.181	3162.57	11/8/06		380.58		2781.99	Sierrita
					1/9/07		362.10		2800.47	Sierrita
					4/20/07		363.60		2798.97	Sierrita
					7/3/07		365.25		2797.32	Sierrita
					11/8/07		367.95		2794.62	Sierrita
					1/28/08		368.58		2793.99	Sierrita
					4/24/08		367.08		2795.49	Sierrita
					8/8/08		370.38		2792.19	Sierrita
					11/14/08		371.70		2790.87	Sierrita
					2/17/09		371.97		2790.60	Sierrita
					6/2/09		370.30		2792.27	Sierrita
					4/15/10		373.30		2789.27	Sierrita
					4/19/11		375.11		2787.46	Sierrita
					4/26/12		380.49		2782.08	Sierrita
					5/23/13		386.04		2776.53	Sierrita
					3/12/14		390.22		2772.35	Sierrita
					4/25/14		390.54		2772.03	Sierrita
					5/14/14		390.45		2772.12	Sierrita
					6/24/14		390.41		2772.16	Sierrita
					7/29/14		388.82		2773.75	Sierrita
					8/8/14		387.62		2774.95	Sierrita
					9/9/14		387.00	Static	2775.57	Sierrita
					10/28/14		387.73		2774.84	Sierrita
					11/26/14		388.10		2774.47	Sierrita
					12/21/14		388.40	Static	2774.17	Sierrita
					1/29/15		388.56	Static	2774.01	Sierrita
					2/27/15		388.62	Static	2773.95	Sierrita
					3/26/15		388.39	Static	2774.18	Sierrita
					4/29/15		388.42	Static	2774.15	Sierrita
					5/21/15		388.45	Static	2774.12	Sierrita
					6/3/15		388.51	Static	2774.06	Sierrita
					7/23/15		389.72	Static	2772.85	Sierrita
					8/25/15		388.55	Static	2774.02	Sierrita
					11/2/15		388.62	Static	2773.95	Sierrita
					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
					12/8/16		388.71	Static	2773.86	Sierrita
					5/24/17		385.93	Static	2776.64	Sierrita
					11/14/17		383.00	Static	2779.57	Sierrita
					6/11/18		379.73	Static	2782.84	Sierrita
					11/15/18		383.76	Static	2778.81	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-10	803636	3521236.861	495717.770	3187.84	11/8/06		346.70		2841.14	Sierrita
					1/9/07		364.80		2823.04	Sierrita
					4/3/07		355.65		2832.19	Sierrita
					7/16/07		356.75		2831.09	Sierrita
					10/16/07		357.60		2830.24	Sierrita
					1/3/08		358.32		2829.52	Sierrita
					4/28/08		358.83		2829.01	Sierrita
					7/31/08		358.50		2829.34	Sierrita
					11/4/08		360.00		2827.84	Sierrita
					1/2/09		360.15		2827.69	Sierrita
					4/14/09		363.50		2824.34	Sierrita
					4/26/10		362.04		2825.80	Sierrita
					5/18/11		363.39		2824.45	Sierrita
					6/5/12		366.25		2821.59	Sierrita
					6/10/13		369.96		2817.88	Sierrita
					4/23/14		371.84	Static	2816.00	Sierrita
					4/14/15		374.09	Static	2813.75	Sierrita
					11/18/15		375.39	Static	2812.45	Sierrita
					6/8/16		375.14	Static	2812.70	Sierrita
					12/8/16		375.43	Static	2812.41	Sierrita
					5/14/17		374.18	Static	2813.66	Sierrita
					11/14/17		373.01	Static	2814.83	Sierrita
					4/23/18		372.58	Static	2815.26	Sierrita
MH-11	803637	3524463.648	498749.381	3041.76	11/9/06		369.90		2671.86	Sierrita
					1/11/07		369.55		2672.21	Sierrita
					4/10/07		370.46		2671.30	Sierrita
					7/17/07		372.75		2669.01	Sierrita
					10/3/07		373.80		2667.96	Sierrita
					1/4/08		373.36		2668.40	Sierrita
					4/29/08		373.89		2667.87	Sierrita
					7/29/08		375.10		2666.66	Sierrita
					11/7/08		376.85		2664.91	Sierrita
					3/19/09		374.88		2666.88	Sierrita
					5/13/09		375.75		2666.01	Sierrita
					4/27/10		375.85		2665.91	Sierrita
					5/24/11		376.65		2665.11	Sierrita
					5/24/12		376.65		2665.11	Sierrita
					4/23/13		383.85		2657.91	Sierrita
					3/12/14		399.52		2642.24	Sierrita
					4/29/14		404.51		2637.25	Sierrita
					5/14/14		404.48		2637.28	Sierrita
					6/12/14		408.00		2633.76	Sierrita
					7/28/14		411.79		2629.97	Sierrita
					8/7/14		412.19		2629.57	Sierrita
					9/8/14		413.51	Static	2628.25	Sierrita
					10/29/14		416.87		2624.89	Sierrita
					11/26/14		419.24		2622.52	Sierrita
					12/17/14		421.06	Static	2620.70	Sierrita
					1/29/15		422.70	Static	2619.06	Sierrita
					2/27/15		422.96	Static	2618.80	Sierrita
					3/18/15		421.87	Static	2619.89	Sierrita
					4/16/15		420.86	Static	2620.90	Sierrita
					5/21/15		421.21	Static	2620.55	Sierrita
					6/2/15		421.52	Static	2620.24	Sierrita
					7/24/15		425.30	Static	2616.46	Sierrita
					8/14/15		427.11	Static	2614.65	Sierrita
					11/5/15		428.08	Static	2613.68	Sierrita
					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
					12/8/16		433.00	Static	2608.76	Sierrita
					5/10/17		440.15	Static	2601.61	Sierrita
					11/14/17		440.29	Static	2601.47	Sierrita
					5/2/18		439.26	Static	2602.50	Sierrita
					12/4/18		439.95	Static	2601.81	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-12	803638	3525207.002	498772.161	3055.08	3/12/14		Obstructed		NA	Sierrita
					4/29/14		UTM		NA	Sierrita
					5/14/14		UTM		NA	Sierrita
					6/9/14		UTM		NA	Sierrita
					7/28/14		UTM		NA	Sierrita
					8/7/14		UTM		NA	Sierrita
					9/8/14		UTM		NA	Sierrita
					10/28/14		UTM		NA	Sierrita
					11/26/14		UTM		NA	Sierrita
					12/17/14		UTM		NA	Sierrita
					1/28/15		UTM		NA	Sierrita
					2/27/15		UTM		NA	Sierrita
					3/18/15		UTM		NA	Sierrita
					4/2/15		UTM		NA	Sierrita
					5/21/15		UTM		NA	Sierrita
					6/11/15		UTM		NA	Sierrita
					7/23/15		UTM		NA	Sierrita
					8/25/15		UTM		NA	Sierrita
					11/5/15		UTM		NA	Sierrita
					1/7/16		UTM		NA	Sierrita
					2/11/16		UTM		NA	Sierrita
					3/7/16		UTM		NA	Sierrita
					6/23/16		UTM		NA	Sierrita
MH-13A	904071	3523610.512	498816.963	3026.23	11/10/06	327.84			2698.39	Sierrita
					1/24/07	326.35			2699.88	Sierrita
					4/18/07	328.14			2698.09	Sierrita
					7/17/07	330.98			2695.25	Sierrita
					10/4/07	331.70			2694.53	Sierrita
					1/4/08	330.85			2695.38	Sierrita
					4/29/08	331.80			2694.43	Sierrita
					7/16/08	333.78			2692.45	Sierrita
					10/20/08	334.64			2691.59	Sierrita
					1/23/09	332.98			2693.25	Sierrita
					4/15/09	332.19			2694.04	Sierrita
					4/21/10	333.27			2692.96	Sierrita
					5/23/11	334.40			2691.83	Sierrita
					6/11/12	337.90			2688.33	Sierrita
					4/3/13	344.58			2681.65	Sierrita
					3/12/14	353.78			2672.45	Sierrita
					4/10/14	355.73			2670.50	Sierrita
					5/14/14	355.70			2670.53	Sierrita
					6/12/14	360.00			2666.23	Sierrita
					7/28/14	362.78			2663.45	Sierrita
					8/7/14	363.32			2662.91	Sierrita
					9/8/14	364.56	Static		2661.67	Sierrita
					10/29/14	365.24			2660.99	Sierrita
					11/26/14	365.91			2660.32	Sierrita
					12/17/14	366.51	Static		2659.72	Sierrita
					1/29/15	366.84	Static		2659.39	Sierrita
					2/27/15	366.90	Static		2659.33	Sierrita
					3/18/15	370.52	Static		2655.71	Sierrita
					4/22/15	370.80	Static		2655.43	Sierrita
					5/21/15	370.92	Static		2655.31	Sierrita
					6/2/15	371.02	Static		2655.21	Sierrita
					7/23/15	371.17	Static		2655.06	Sierrita
					8/25/15	375.27	Static		2650.96	Sierrita
					11/5/15	377.29	Static		2648.94	Sierrita
					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
					12/8/16	379.20	Static		2647.03	Sierrita
					5/1/17	376.97	Static		2649.26	Sierrita
					11/14/17	384.21	Static		2642.02	Sierrita
					5/8/18	381.85	Static		2644.38	Sierrita
					12/4/18	382.48	Static		2643.75	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-13B	904072	3523605.102	498823.048	3025.63	11/10/06	330.70			2694.93	Sierrita
					1/24/07	330.58			2695.05	Sierrita
					4/18/07	332.21			2693.42	Sierrita
					7/17/07	335.47			2690.16	Sierrita
					10/3/07	335.90			2689.73	Sierrita
					1/4/08	334.85			2690.78	Sierrita
					4/29/08	336.35			2689.28	Sierrita
					7/16/08	337.92			2687.71	Sierrita
					10/20/08	339.14			2686.49	Sierrita
					1/23/09	337.20			2688.43	Sierrita
					4/15/09	336.50			2689.13	Sierrita
					4/21/10	337.47			2688.16	Sierrita
					5/23/11	338.75			2686.88	Sierrita
					6/11/12	342.50			2683.13	Sierrita
					4/3/13	348.98			2676.65	Sierrita
					3/12/14	358.93			2666.70	Sierrita
					4/10/14	361.02			2664.61	Sierrita
					5/14/14	360.97			2664.66	Sierrita
					6/12/14	365.82			2659.81	Sierrita
					7/28/14	368.39			2657.24	Sierrita
					8/7/14	369.30			2656.33	Sierrita
					9/8/14	369.93	Static		2655.70	Sierrita
					10/29/14	370.39			2655.24	Sierrita
					11/26/14	370.78			2654.85	Sierrita
					12/17/14	371.23	Static		2654.40	Sierrita
					1/29/15	372.73	Static		2652.90	Sierrita
					2/27/15	373.00	Static		2652.63	Sierrita
					3/18/15	375.64	Static		2649.99	Sierrita
					4/22/15	375.55	Static		2650.08	Sierrita
					5/21/15	375.62	Static		2650.01	Sierrita
					6/2/15	375.68	Static		2649.95	Sierrita
					7/23/15	375.75	Static		2649.88	Sierrita
					8/25/15	380.98	Static		2644.65	Sierrita
					11/5/15	383.30	Static		2642.33	Sierrita
					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
					12/8/16	384.42	Static		2641.21	Sierrita
					5/1/17	381.95	Static		2643.68	Sierrita
					11/14/17	389.79	Static		2635.84	Sierrita
					5/8/18	387.90	Static		2637.73	Sierrita
					12/4/18	387.57	Static		2638.06	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-13C	904073	3523610.402	498790.263	3028.46	11/10/06		335.38		2693.08	Sierrita
					1/24/07		335.45		2693.01	Sierrita
					4/18/07		337.80		2690.66	Sierrita
					7/17/07		339.82		2688.64	Sierrita
					10/4/07		340.75		2687.71	Sierrita
					1/4/08		340.42		2688.04	Sierrita
					4/29/08		341.55		2686.91	Sierrita
					7/16/08		343.35		2685.11	Sierrita
					10/20/08		344.57		2683.89	Sierrita
					1/23/09		343.82		2684.64	Sierrita
					4/15/09		343.08		2685.38	Sierrita
					4/21/10		343.86		2684.60	Sierrita
					5/23/11		344.30		2684.16	Sierrita
					6/11/12		348.75		2679.71	Sierrita
					4/3/13		353.62		2674.84	Sierrita
					3/12/14		362.99		2665.47	Sierrita
					4/10/14		365.21		2663.25	Sierrita
					5/14/14		365.22		2663.24	Sierrita
					6/12/14		370.51		2657.95	Sierrita
					7/28/14		373.52		2654.94	Sierrita
					8/7/14		374.46		2654.00	Sierrita
					9/8/14		375.79	Static	2652.67	Sierrita
					10/29/14		376.54		2651.92	Sierrita
					11/26/14		377.00		2651.46	Sierrita
					12/17/14		377.60	Static	2650.86	Sierrita
					1/29/15		378.11	Static	2650.35	Sierrita
					2/27/15		378.52	Static	2649.94	Sierrita
					3/18/15		382.36	Static	2646.10	Sierrita
					4/22/15		382.61	Static	2645.85	Sierrita
					5/21/15		382.75	Static	2645.71	Sierrita
					6/2/15		382.87	Static	2645.59	Sierrita
					7/23/15		382.94	Static	2645.52	Sierrita
					8/25/15		386.44	Static	2642.02	Sierrita
					11/5/15		388.32	Static	2640.14	Sierrita
					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
					12/8/16		391.73	Static	2636.73	Sierrita
					5/1/17		390.34	Static	2638.12	Sierrita
					11/14/17		459.35	Static	2569.11	Sierrita
					5/8/18		399.09	Static	2629.37	Sierrita
					12/4/18		400.10	Static	2628.36	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-14	528098	3525269.340	497517.626	3153.46	12/18/06	427.28			2726.18	Sierrita
					2/23/07	426.75			2726.71	Sierrita
					4/23/07	425.58			2727.88	Sierrita
					7/10/07	424.20			2729.26	Sierrita
					10/17/07	422.80			2730.66	Sierrita
					1/18/08	424.87			2728.59	Sierrita
					4/8/08	425.13			2728.33	Sierrita
					7/22/08	423.92			2729.54	Sierrita
					10/6/08	426.03			2727.43	Sierrita
					2/13/09	425.90			2727.56	Sierrita
					4/7/09	424.90			2728.56	Sierrita
					4/15/10	422.91			2730.55	Sierrita
					8/12/10	421.82			2731.64	Sierrita
					4/19/11	418.94			2734.52	Sierrita
					4/25/12	419.83			2733.63	Sierrita
					4/2/13	425.59			2727.87	Sierrita
					10/21/13	426.13			2727.33	Sierrita
					1/3/14	426.45			2727.01	Sierrita
					3/12/14	UTM		NA		Sierrita
					3/25/14	435.04			2718.42	Sierrita
					4/9/14	436.20			2717.26	Sierrita
					5/14/14	436.12			2717.34	Sierrita
					6/24/14	436.09			2717.37	Sierrita
					7/7/14	440.32			2713.14	Sierrita
					8/8/14	441.58			2711.88	Sierrita
					9/9/14	442.76	Static		2710.70	Sierrita
					10/28/14	442.79			2710.67	Sierrita
					11/4/14	443.64			2709.82	Sierrita
					12/20/14	444.48	Static		2708.98	Sierrita
					1/7/15	445.85	Static		2707.61	Sierrita
					2/27/15	446.20	Static		2707.26	Sierrita
					3/26/15	447.25	Static		2706.21	Sierrita
					4/21/15	447.63	Static		2705.83	Sierrita
					5/21/15	447.89	Static		2705.57	Sierrita
					6/2/15	447.93	Static		2705.53	Sierrita
					7/6/15	449.87	Static		2703.59	Sierrita
					8/25/15	452.49	Static		2700.97	Sierrita
					10/7/15	454.52	Static		2698.94	Sierrita
					11/18/15	454.44	Static		2699.02	Sierrita
					1/13/16	455.10	Static		2698.36	Sierrita
					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
					12/6/16	456.18	Static		2697.28	Sierrita
					1/10/17	456.40	Static		2697.06	Sierrita
					3/9/17	453.45	Static		2700.01	Sierrita
					4/3/17	454.28	Static		2699.18	Sierrita
					7/11/17	452.67	Static		2700.79	Sierrita
					10/18/17	449.34	Static		2704.12	Sierrita
					4/10/18	449.39	Static		2704.07	Sierrita
					10/18/18	449.90	Static		2703.56	Sierrita

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Well Name	ADWR 55 Registry Number	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	3523274.327	497584.800	3111.37	11/10/06		385.25		2726.12	Sierrita
					2/23/07		384.07		2727.30	Sierrita
					4/23/07		385.11		2726.26	Sierrita
					7/21/07		385.80		2725.57	Sierrita
					10/20/07		387.08		2724.29	Sierrita
					1/18/08		386.60		2724.77	Sierrita
					4/21/08		386.18		2725.19	Sierrita
					7/29/08		387.39		2723.98	Sierrita
					10/24/08		388.51		2722.86	Sierrita
					2/17/09		387.46		2723.91	Sierrita
					6/2/09		386.98		2724.39	Sierrita
					4/13/10		386.17		2725.20	Sierrita
					4/18/11		382.69		2728.68	Sierrita
					6/14/12		391.96		2719.41	Sierrita
					4/2/13		407.42		2703.95	Sierrita
					3/12/14		409.49		2701.88	Sierrita
					4/25/14		410.59		2700.78	Sierrita
					5/14/14		410.62		2700.75	Sierrita
					6/24/14		410.60		2700.77	Sierrita
					7/29/14		404.02		2707.35	Sierrita
					8/8/14		404.33		2707.04	Sierrita
					9/9/14		404.56	Static	2706.81	Sierrita
					10/28/14		402.90		2708.47	Sierrita
					11/26/14		403.20		2708.17	Sierrita
					12/20/14		403.49	Static	2707.88	Sierrita
					1/29/15		403.64	Static	2707.73	Sierrita
					2/27/15		403.66	Static	2707.71	Sierrita
					3/26/15		401.26	Static	2710.11	Sierrita
					4/29/15		401.28	Static	2710.09	Sierrita
					5/21/15		401.25	Static	2710.12	Sierrita
					6/3/15		401.31	Static	2710.06	Sierrita
					7/23/15		411.84	Static	2699.53	Sierrita
					8/25/15		416.47	Static	2694.90	Sierrita
					11/2/15		421.92	Static	2689.45	Sierrita
					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
					12/8/16		409.57	Static	2701.80	Sierrita
					5/24/17		404.93	Static	2706.44	Sierrita
					11/14/17		398.22	Static	2713.15	Sierrita
					6/11/18		399.49	Static	2711.88	Sierrita
					11/15/18		399.65	Static	2711.72	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-15W	528093	3523275.003	497524.067	3117.07	12/18/06	391.30			2725.77	Sierrita
					2/23/07	390.00			2727.07	Sierrita
					4/23/07	391.18			2725.89	Sierrita
					7/11/07	390.85			2726.22	Sierrita
					10/17/07	393.10			2723.97	Sierrita
					1/18/08	392.90			2724.17	Sierrita
					4/8/08	391.00			2726.07	Sierrita
					7/1/08	392.70			2724.37	Sierrita
					10/6/08	394.00			2723.07	Sierrita
					1/7/09	392.55			2724.52	Sierrita
					5/6/09	390.25			2726.82	Sierrita
					4/15/10	390.58			2726.49	Sierrita
					8/12/10	389.20			2727.87	Sierrita
					5/17/11	388.95			2728.12	Sierrita
					4/25/12	397.62			2719.45	Sierrita
					5/28/13	409.15			2707.92	Sierrita
					12/12/13	414.19			2702.88	Sierrita
					1/3/14	412.60			2704.47	Sierrita
					3/12/14	414.01			2703.06	Sierrita
					4/9/14	412.76			2704.31	Sierrita
					5/14/14	412.77			2704.30	Sierrita
					6/24/14	412.74			2704.33	Sierrita
					7/7/14	413.44			2703.63	Sierrita
					8/8/14	409.65			2707.42	Sierrita
					9/9/14	407.53	Static		2709.54	Sierrita
					10/28/14	403.64			2713.43	Sierrita
					11/4/14	405.18			2711.89	Sierrita
					12/20/14	406.58	Static		2710.49	Sierrita
					1/7/15	405.68	Static		2711.39	Sierrita
					2/27/15	405.79	Static		2711.28	Sierrita
					3/26/15	401.30	Static		2715.77	Sierrita
					4/21/15	401.33	Static		2715.74	Sierrita
					5/18/15	401.27	Static		2715.80	Sierrita
					6/3/15	401.36	Static		2715.71	Sierrita
					7/6/15	401.37	Static		2715.70	Sierrita
					8/25/15	419.08	Static		2697.99	Sierrita
					10/8/15	UTM			NA	Sierrita
					11/2/15	UTM			NA	Sierrita
					1/13/16	UTM			NA	Sierrita
					2/11/16	UTM			NA	Sierrita
					3/11/16	UTM			NA	Sierrita
					4/5/16	UTM			NA	Sierrita
					12/6/16	UTM			NA	Sierrita
					3/9/17	413.89	Static		2703.18	Sierrita
					4/3/17	415.79	Static		2701.28	Sierrita
					7/11/17	415.65	Static		2701.42	Sierrita
					10/19/17	400.00	Static		2717.07	Sierrita
					4/11/18	395.82	Static		2721.25	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	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	3521870.233	497576.673	3097.72	12/18/06	344.70			2753.02	Sierrita
					2/23/07	349.39			2748.33	Sierrita
					4/23/07	352.85			2744.87	Sierrita
					7/21/07	355.00			2742.72	Sierrita
					10/20/07	355.55			2742.17	Sierrita
					1/19/08	355.30			2742.42	Sierrita
					4/21/08	355.15			2742.57	Sierrita
					7/29/08	356.78			2740.94	Sierrita
					10/24/08	357.62			2740.10	Sierrita
					2/17/09	357.02			2740.70	Sierrita
					6/2/09	354.15			2743.57	Sierrita
					4/13/10	357.71			2740.01	Sierrita
					4/18/11	354.93			2742.79	Sierrita
					4/26/12	362.82			2734.90	Sierrita
					5/23/13	364.82			2732.90	Sierrita
					3/12/14	384.61			2713.11	Sierrita
					4/25/14	382.54			2715.18	Sierrita
					5/14/14	382.56			2715.16	Sierrita
					6/24/14	382.55			2715.17	Sierrita
					7/29/14	380.17			2717.55	Sierrita
					8/8/14	381.30			2716.42	Sierrita
					9/9/14	382.26	Static		2715.46	Sierrita
					10/28/14	379.10			2718.62	Sierrita
					11/26/14	380.26			2717.46	Sierrita
					12/21/14	381.24	Static		2716.48	Sierrita
					1/29/15	381.30	Static		2716.42	Sierrita
					2/27/15	381.33	Static		2716.39	Sierrita
					3/26/15	379.61	Static		2718.11	Sierrita
					4/29/15	379.56	Static		2718.16	Sierrita
					5/21/15	379.58	Static		2718.14	Sierrita
					6/3/15	379.64	Static		2718.08	Sierrita
					7/23/15	385.44	Static		2712.28	Sierrita
					8/25/15	386.73	Static		2710.99	Sierrita
					11/2/15	389.51	Static		2708.21	Sierrita
					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
					12/8/16	377.64	Static		2720.08	Sierrita
					5/24/17	370.32	Static		2727.40	Sierrita
					11/14/17	360.24	Static		2737.48	Sierrita
					6/11/18	DRY			DRY	Sierrita
					11/15/18	DRY			DRY	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	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-16W	528099	3521870.818	497516.074	3100.24	12/18/06	346.62			2753.62	Sierrita
					2/23/07	352.18			2748.06	Sierrita
					4/23/07	355.75			2744.49	Sierrita
					7/11/07	357.47			2742.77	Sierrita
					10/17/07	357.75			2742.49	Sierrita
					1/3/08	357.80			2742.44	Sierrita
					4/24/08	357.87			2742.37	Sierrita
					7/22/08	359.24			2741.00	Sierrita
					10/8/08	360.03			2740.21	Sierrita
					3/19/09	358.73			2741.51	Sierrita
					4/7/09	358.60			2741.64	Sierrita
					4/15/10	360.31			2739.93	Sierrita
					8/12/10	360.42			2739.82	Sierrita
					5/17/11	357.55			2742.69	Sierrita
					4/25/12	364.24			2736.00	Sierrita
					4/2/13	377.99			2722.25	Sierrita
					10/21/13	387.88			2712.36	Sierrita
					1/3/14	389.39			2710.85	Sierrita
					3/12/14	385.88			2714.36	Sierrita
					4/9/14	383.83			2716.41	Sierrita
					5/14/14	383.87			2716.37	Sierrita
					6/24/14	383.89			2716.35	Sierrita
					7/7/14	381.43			2718.81	Sierrita
					8/8/14	382.48			2717.76	Sierrita
					9/9/14	383.38	Static		2716.86	Sierrita
					10/28/14	379.41			2720.83	Sierrita
					11/4/14	380.82			2719.42	Sierrita
					12/21/14	382.11	Static		2718.13	Sierrita
					1/7/15	382.74	Static		2717.50	Sierrita
					2/27/15	382.81	Static		2717.43	Sierrita
					3/26/15	379.84	Static		2720.40	Sierrita
					4/21/15	381.49	Static		2718.75	Sierrita
					5/21/15	381.20	Static		2719.04	Sierrita
					6/3/15	381.43	Static		2718.81	Sierrita
					7/6/15	385.73	Static		2714.51	Sierrita
					8/25/15	387.68	Static		2712.56	Sierrita
					10/8/15	386.10	Static		2714.14	Sierrita
					11/2/15	387.14	Static		2713.10	Sierrita
					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
					12/6/16	387.24	Static		2713.00	Sierrita
					1/10/17	386.92	Static		2713.32	Sierrita
					3/9/17	364.35	Static		2735.89	Sierrita
					4/4/17	368.45	Static		2731.79	Sierrita
					7/11/17	369.92	Static		2730.32	Sierrita
					10/19/17	359.75	Static		2740.49	Sierrita
					4/11/18	365.59	Static		2734.65	Sierrita
					10/18/18	371.95	Static		2728.29	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-24	563799	3523709.046	497390.515	3131.16	11/21/06		397.50		2733.66	Sierrita
					4/20/07		399.35		2731.81	Sierrita
					8/3/07		399.33		2731.83	Sierrita
					11/8/07		400.50		2730.66	Sierrita
					1/30/08		396.90		2734.26	Sierrita
					4/24/08		395.89		2735.27	Sierrita
					8/7/08		396.78		2734.38	Sierrita
					11/14/08		396.88		2734.28	Sierrita
					2/17/09		396.31		2734.85	Sierrita
					6/2/09		396.50		2734.66	Sierrita
					4/13/10		386.43		2744.73	Sierrita
					4/18/11		392.84		2738.32	Sierrita
					4/25/12		396.58		2734.58	Sierrita
					4/2/13		408.56		2722.60	Sierrita
					4/29/14		Obstructed		NA	Sierrita
					5/22/14		407.41		2723.75	Sierrita
					6/4/15		404.82	Static	2726.34	Sierrita
					11/18/15	UTM			NA	Sierrita
					6/15/16	UTM			NA	Sierrita
					5/24/17	UTM			NA	Sierrita
					10/23/17	UTM			NA	Sierrita
					6/11/18		402.59	Static	2728.57	Sierrita
					11/15/18		402.56	Static	2728.60	Sierrita
MH-25A	201528	3526510.175	498880.349	3056.57	11/13/06		454.11		2602.46	Sierrita
					1/10/07		453.10		2603.47	Sierrita
					4/4/07		452.20		2604.37	Sierrita
					7/20/07		454.02		2602.55	Sierrita
					10/3/07		454.69		2601.88	Sierrita
					1/2/08		454.82		2601.75	Sierrita
					4/25/08		454.47		2602.10	Sierrita
					7/2/08		455.68		2600.89	Sierrita
					10/17/08		457.49		2599.08	Sierrita
					1/5/09		457		2599.57	Sierrita
					4/15/09		455.90		2600.67	Sierrita
					4/13/10		458.10		2598.47	Sierrita
					4/27/11		459.25		2597.32	Sierrita
					5/1/12		459.69		2596.88	Sierrita
					4/3/13		461.70		2594.87	Sierrita
					3/12/14		473.95		2582.62	Sierrita
					4/15/14		477.45		2579.12	Sierrita
					5/13/14		477.40		2579.17	Sierrita
					6/9/14		482.36		2574.21	Sierrita
					7/28/14		486.66		2569.91	Sierrita
					8/7/14		488.09		2568.48	Sierrita
					9/8/14		489.49	Static	2567.08	Sierrita
					10/29/14		492.67		2563.90	Sierrita
					11/26/14		495.20		2561.37	Sierrita
					12/17/14		497.76	Static	2558.81	Sierrita
					1/29/15		499.10	Static	2557.47	Sierrita
					2/27/15		500.16	Static	2556.41	Sierrita
					3/18/15		498.50	Static	2558.07	Sierrita
					4/7/15		499.37	Static	2557.20	Sierrita
					5/21/15		501.39	Static	2555.18	Sierrita
					6/1/15		503.19	Static	2553.38	Sierrita
					8/31/15		505.05	Static	2551.52	Sierrita
					11/5/15		505.24	Static	2551.33	Sierrita
					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
					12/8/16		510.97	Static	2545.60	Sierrita
					5/2/17		518.86	Static	2537.71	Sierrita
					11/15/17		521.62	Static	2534.95	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-25B	208429	3526515.244	498870.343	3058.22	11/13/06	455.36			2602.86	Sierrita
					1/10/07	454.28			2603.94	Sierrita
					4/4/07	453.20			2605.02	Sierrita
					7/20/07	455.32			2602.90	Sierrita
					10/3/07	456.01			2602.21	Sierrita
					1/2/08	456.05			2602.17	Sierrita
					4/25/08	456.02			2602.20	Sierrita
					7/2/08	457.10			2601.12	Sierrita
					10/17/08	458.39			2599.83	Sierrita
					1/5/09	458.38			2599.84	Sierrita
					4/15/09	457.28			2600.94	Sierrita
					4/13/10	458.27			2599.95	Sierrita
					4/27/11	460.35			2597.87	Sierrita
					6/15/11	460.85			2597.37	Sierrita
					5/1/12	460.90			2597.32	Sierrita
					4/3/13	463.02			2595.20	Sierrita
					3/12/14	475.49			2582.73	Sierrita
					4/15/14	478.92			2579.30	Sierrita
					5/13/14	478.93			2579.29	Sierrita
					6/9/14	483.75			2574.47	Sierrita
					7/28/14	488.06			2570.16	Sierrita
					8/7/14	489.41			2568.81	Sierrita
					9/8/14	490.78	Static		2567.44	Sierrita
					10/29/14	493.95			2564.27	Sierrita
					11/26/14	496.89			2561.33	Sierrita
					12/17/14	499.64	Static		2558.58	Sierrita
					1/29/15	501.19	Static		2557.03	Sierrita
					2/27/15	502.38	Static		2555.84	Sierrita
					3/18/15	499.72	Static		2558.50	Sierrita
					4/7/15	500.60	Static		2557.62	Sierrita
					5/21/15	502.63	Static		2555.59	Sierrita
					6/1/15	502.94	Static		2555.28	Sierrita
					7/23/15	504.42	Static		2553.80	Sierrita
					8/31/15	UTM		NA		Sierrita
					11/5/15	UTM		NA		Sierrita
					1/7/16	UTM		NA		Sierrita
					2/12/16	UTM		NA		Sierrita
					3/7/16	UTM		NA		Sierrita
					4/11/16	UTM		NA		Sierrita
					9/21/16	515.10	Static		2543.12	Sierrita
					12/8/16	518.21	Static		2540.01	Sierrita
					5/2/17	519.29	Static		2538.93	Sierrita
					11/15/17	522.10	Static		2536.12	Sierrita
					5/2/18	522.21	Static		2536.01	Sierrita
					12/4/18	525.34	Static		2532.88	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	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-25C	208426	3526491.132	498874.666	3057.24	11/13/06	454.65			2602.59	Sierrita
					1/10/07	453.57			2603.67	Sierrita
					4/13/07	452.30			2604.94	Sierrita
					7/20/07	454.42			2602.82	Sierrita
					10/3/07	455.19			2602.05	Sierrita
					1/2/08	455.06			2602.18	Sierrita
					4/25/08	454.84			2602.40	Sierrita
					7/2/08	456.23			2601.01	Sierrita
					10/17/08	457.49			2599.75	Sierrita
					1/5/09	457.30			2599.94	Sierrita
					4/15/09	456.41			2600.83	Sierrita
					4/13/10	459.28			2597.96	Sierrita
					4/27/11	459.16			2598.08	Sierrita
					6/15/11	459.52			2597.72	Sierrita
					5/1/12	459.76			2597.48	Sierrita
					4/3/13	461.80			2595.44	Sierrita
					3/12/14	474.31			2582.93	Sierrita
					4/15/14	477.67			2579.57	Sierrita
					5/13/14	477.63			2579.61	Sierrita
					6/9/14	482.63			2574.61	Sierrita
					7/28/14	487.01			2570.23	Sierrita
					8/7/14	488.25			2568.99	Sierrita
					9/8/14	489.69	Static		2567.55	Sierrita
					10/29/14	492.81			2564.43	Sierrita
					11/26/14	495.28			2561.96	Sierrita
					12/17/14	497.94	Static		2559.30	Sierrita
					1/29/15	500.06	Static		2557.18	Sierrita
					2/27/15	501.45	Static		2555.79	Sierrita
					3/18/15	498.51	Static		2558.73	Sierrita
					4/7/15	UTM			NA	Sierrita
					5/21/15	UTM			NA	Sierrita
					6/1/15	UTM			NA	Sierrita
					7/23/15	UTM			NA	Sierrita
					8/31/15	UTM			NA	Sierrita
					11/5/15	UTM			NA	Sierrita
					1/7/16	UTM			NA	Sierrita
					2/12/16	UTM			NA	Sierrita
					3/7/16	UTM			NA	Sierrita
					4/11/16	UTM			NA	Sierrita
					9/21/16	514.86	Static		2542.38	Sierrita
					12/8/16	516.18	Static		2541.06	Sierrita
					5/2/17	518.90	Static		2538.34	Sierrita
					11/15/17	521.81	Static		2535.43	Sierrita
					5/2/18	521.85	Static		2535.39	Sierrita
					12/4/18	524.97	Static		2532.27	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	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	3527818.233	498852.692	3070.89	11/13/06	495.74			2575.15	Sierrita
					1/15/07	495.65			2575.24	Sierrita
					4/4/07	493.75			2577.14	Sierrita
					7/19/07	495.02			2575.87	Sierrita
					10/2/07	496.12			2574.77	Sierrita
					1/2/08	496.28			2574.61	Sierrita
					4/25/08	495.73			2575.16	Sierrita
					7/2/08	496.98			2573.91	Sierrita
					10/17/08	498.23			2572.66	Sierrita
					1/5/09	498.76			2572.13	Sierrita
					4/21/09	497.85			2573.04	Sierrita
					4/13/10	499.68			2571.21	Sierrita
					4/27/11	500.71			2570.18	Sierrita
					5/2/12	501.05			2569.84	Sierrita
					4/4/13	501.96			2568.93	Sierrita
					3/12/14	513.50			2557.39	Sierrita
					4/15/14	513.40			2557.49	Sierrita
					5/13/14	513.36			2557.53	Sierrita
					6/9/14	520.93			2549.96	Sierrita
					7/28/14	524.95			2545.94	Sierrita
					8/7/14	525.55		NA	Sierrita	
					9/8/14	UTM		NA	Sierrita	
					10/28/14	UTM		NA	Sierrita	
					11/26/14	UTM		NA	Sierrita	
					12/16/14	UTM		NA	Sierrita	
					1/29/15	UTM		NA	Sierrita	
					2/27/15	UTM		NA	Sierrita	
					3/18/15	UTM		NA	Sierrita	
					4/7/15	UTM		NA	Sierrita	
					5/2/15	UTM		NA	Sierrita	
					6/1/15	UTM		NA	Sierrita	
					7/8/15	UTM		NA	Sierrita	
					8/17/15	UTM		NA	Sierrita	
					11/6/15	UTM		NA	Sierrita	
					1/7/16	DRY		DRY	Sierrita	
					2/12/16	DRY		DRY	Sierrita	
					3/7/16	DRY		DRY	Sierrita	
					4/11/16	DRY		DRY	Sierrita	
					12/9/16	DRY		DRY	Sierrita	
					5/2/17	DRY		DRY	Sierrita	
					11/15/17	DRY		DRY	Sierrita	
					5/3/18	DRY		DRY	Sierrita	

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-26B	208427	3527814.016	498839.900	3070.50	11/13/06	493.00			2577.50	Sierrita
					1/15/07	492.85			2577.65	Sierrita
					4/4/07	490.78			2579.72	Sierrita
					7/19/07	492.01			2578.49	Sierrita
					10/2/07	493.18			2577.32	Sierrita
					1/2/08	493.76			2576.74	Sierrita
					4/25/08	492.98			2577.52	Sierrita
					7/2/08	494.10			2576.40	Sierrita
					10/20/08	495.31			2575.19	Sierrita
					1/5/09	495.88			2574.62	Sierrita
					4/21/09	494.90			2575.60	Sierrita
					4/13/10	496.77			2573.73	Sierrita
					5/5/11	497.73			2572.77	Sierrita
					5/1/12	498.00			2572.50	Sierrita
					4/4/13	499.03			2571.47	Sierrita
					3/12/14	510.69			2559.81	Sierrita
					4/15/14	510.67			2559.83	Sierrita
					5/13/14	510.68			2559.82	Sierrita
					6/9/14	517.75			2552.75	Sierrita
					7/28/14	522.14			2548.36	Sierrita
					8/7/14	523.46			2547.04	Sierrita
					9/8/14	524.35	Static		2546.15	Sierrita
					10/28/14	527.68			2542.82	Sierrita
					11/26/14	529.90			2540.60	Sierrita
					12/16/14	531.11	Static		2539.39	Sierrita
					1/29/15	531.79	Static		2538.71	Sierrita
					2/27/15	532.68	Static		2537.82	Sierrita
					3/18/15	533.34	Static		2537.16	Sierrita
					4/7/15	534.12	Static		2536.38	Sierrita
					5/21/15	535.90	Static		2534.60	Sierrita
					6/1/15	535.79	Static		2534.71	Sierrita
					7/8/15	537.52	Static		2532.98	Sierrita
					8/17/15	UTM			NA	Sierrita
					11/6/15	UTM			NA	Sierrita
					1/7/16	UTM			NA	Sierrita
					2/12/16	UTM			NA	Sierrita
					3/7/16	UTM			NA	Sierrita
					4/11/16	UTM			NA	Sierrita
					9/21/16	548.09	Static		2522.41	Sierrita
					12/9/16	549.16	Static		2521.34	Sierrita
					5/2/17	551.60	Static		2518.90	Sierrita
					11/15/17	556.27	Static		2514.23	Sierrita
					5/3/18	558.61	Static		2511.89	Sierrita
					12/4/18	560.97	Static		2509.53	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-26C	208428	3527806.770	498865.240	3069.11	11/13/06	494.45			2574.66	Sierrita
					1/15/07	494.10			2575.01	Sierrita
					4/4/07	492.30			2576.81	Sierrita
					7/19/07	493.62			2575.49	Sierrita
					10/2/07	496.58			2572.53	Sierrita
					1/2/08	495.35			2573.76	Sierrita
					4/25/08	494.37			2574.74	Sierrita
					7/2/08	495.55			2573.56	Sierrita
					10/20/08	496.78			2572.33	Sierrita
					1/5/09	497.21			2571.90	Sierrita
					4/21/09	493.95			2575.16	Sierrita
					4/13/10	498.14			2570.97	Sierrita
					4/27/11	499.14			2569.97	Sierrita
					5/1/12	499.44			2569.67	Sierrita
					4/4/13	500.61			2568.50	Sierrita
					3/12/14	512.31			2556.80	Sierrita
					4/15/14	512.27			2556.84	Sierrita
					5/13/14	512.30			2556.81	Sierrita
					6/9/14	519.21			2549.90	Sierrita
					7/28/14	523.77			2545.34	Sierrita
					8/7/14	525.34			2543.77	Sierrita
					9/8/14	526.04	Static		2543.07	Sierrita
					10/28/14	529.30			2539.81	Sierrita
					11/26/14	532.02			2537.09	Sierrita
					12/16/14	535.02	Static		2534.09	Sierrita
					1/29/15	536.86	Static		2532.25	Sierrita
					2/27/15	534.31	Static		2534.80	Sierrita
					3/18/15	535.01	Static		2534.10	Sierrita
					4/7/15	535.70	Static		2533.41	Sierrita
					5/21/15	537.57	Static		2531.54	Sierrita
					6/1/15	539.22	Static		2529.89	Sierrita
					7/8/15	541.12	Static		2527.99	Sierrita
					8/17/15	541.14	Static		2527.97	Sierrita
					11/6/15	541.29	Static		2527.82	Sierrita
					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		NA	Sierrita	
					9/21/16	549.78	Static		2519.33	Sierrita
					12/9/16	551.19	Static		2517.92	Sierrita
					5/2/17	552.85	Static		2516.26	Sierrita
					11/15/17	557.59	Static		2511.52	Sierrita
					5/3/18	559.68	Static		2509.43	Sierrita
					12/4/18	562.22	Static		2506.89	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-28	903648	3524609.980	497471.427	3142.18	11/14/06	401.10			2741.08	Sierrita
					2/19/07	401.10			2741.08	Sierrita
					4/17/07	402.32			2739.86	Sierrita
					7/16/07	403.18			2739.00	Sierrita
					10/11/07	403.00			2739.18	Sierrita
					1/21/08	402.72			2739.46	Sierrita
					4/8/08	401.90			2740.28	Sierrita
					7/1/08	401.48			2740.70	Sierrita
					10/6/08	402.17			2740.01	Sierrita
					1/7/09	402			2740.18	Sierrita
					4/7/09	401.06			2741.12	Sierrita
					10/13/09	401.10			2741.08	Sierrita
					4/15/10	395.65			2746.53	Sierrita
					8/12/10	398.60			2743.58	Sierrita
					10/12/10	399.00			2743.18	Sierrita
					5/17/11	396.89			2745.29	Sierrita
					10/4/11	397.90			2744.28	Sierrita
					5/21/12	398.64			2743.54	Sierrita
					10/9/12	403.77			2738.41	Sierrita
					4/2/13	405.08			2737.10	Sierrita
					10/21/13	407.88			2734.30	Sierrita
					1/3/14	408.01			2734.17	Sierrita
					3/12/14	411.69			2730.49	Sierrita
					4/9/14	412.72			2729.46	Sierrita
					5/14/14	412.74			2729.44	Sierrita
					6/24/14	412.76			2729.42	Sierrita
					7/7/14	414.90			2727.28	Sierrita
					8/8/14	414.60			2727.58	Sierrita
					9/9/14	414.19	Static		2727.99	Sierrita
					10/28/14	415.32			2726.86	Sierrita
					11/4/14	415.92			2726.26	Sierrita
					12/20/14	416.46	Static		2725.72	Sierrita
					1/7/15	416.16	Static		2726.02	Sierrita
					2/27/15	416.10	Static		2726.08	Sierrita
					3/26/15	414.87	Static		2727.31	Sierrita
					4/21/15	414.83	Static		2727.35	Sierrita
					5/21/15	414.80	Static		2727.38	Sierrita
					6/3/15	414.86	Static		2727.32	Sierrita
					7/6/15	416.53	Static		2725.65	Sierrita
					7/20/15	416.85	Static		2725.33	Sierrita
					8/25/15	417.35	Static		2724.83	Sierrita
					10/8/15	417.68	Static		2724.50	Sierrita
					11/2/15	417.63	Static		2724.55	Sierrita
					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
					10/26/16	415.13	Static		2727.05	Sierrita
					1/10/17	415.10	Static		2727.08	Sierrita
					4/5/17	414.94	Static		2727.24	Sierrita
					7/6/17	416.84	Static		2725.34	Sierrita
					10/11/17	414.89	Static		2727.29	Sierrita
					4/10/18	413.39	Static		2728.79	Sierrita
					8/7/18	412.65	Static		2729.53	Sierrita
					10/16/18	411.40	Static		2730.78	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-29	903649	3522805.520	497604.330	3123.15	11/14/06	378.05			2745.10	Sierrita
					2/19/07	376.58			2746.57	Sierrita
					4/17/07	376.75			2746.40	Sierrita
					7/16/07	379.07			2744.08	Sierrita
					10/11/07	381.92			2741.23	Sierrita
					1/18/08	380.41			2742.74	Sierrita
					4/8/08	380.16			2742.99	Sierrita
					7/1/08	380.50			2742.65	Sierrita
					10/7/08	381.52			2741.63	Sierrita
					1/9/09	380.25			2742.90	Sierrita
					4/7/09	379.90			2743.25	Sierrita
					10/13/09	380.52			2742.63	Sierrita
					4/15/10	379.59			2743.56	Sierrita
					8/12/10	378.65			2744.50	Sierrita
					10/12/10	379.31			2743.84	Sierrita
					4/20/11	377.75			2745.40	Sierrita
					5/23/11	377.80			2745.35	Sierrita
					10/4/11	380.25			2742.90	Sierrita
					5/21/12	389.39			2733.76	Sierrita
					10/9/12	365.70			2757.45	Sierrita
					4/2/13	392.00			2731.15	Sierrita
					11/8/13	393.39			2729.76	Sierrita
					12/11/13	394.82			2728.33	Sierrita
					1/3/14	394.63			2728.52	Sierrita
					3/12/14	394.25			2728.90	Sierrita
					4/9/14	393.95			2729.20	Sierrita
					5/14/14	393.92			2729.23	Sierrita
					6/24/14	393.94			2729.21	Sierrita
					7/7/14	392.13			2731.02	Sierrita
					8/8/14	392.28			2730.87	Sierrita
					9/9/14	392.59	Static		2730.56	Sierrita
					10/28/14	400.46			2722.69	Sierrita
					11/4/14	400.90			2722.25	Sierrita
					12/21/14	401.30	Static		2721.85	Sierrita
					1/7/15	402.56	Static		2720.59	Sierrita
					2/27/15	402.89	Static		2720.26	Sierrita
					3/26/15	402.18	Static		2720.97	Sierrita
					4/21/15	402.40	Static		2720.75	Sierrita
					5/21/15	402.49	Static		2720.66	Sierrita
					6/3/15	402.52	Static		2720.63	Sierrita
					7/6/15	404.41	Static		2718.74	Sierrita
					8/25/15	404.64	Static		2718.51	Sierrita
					10/8/15	404.75	Static		2718.40	Sierrita
					11/2/15	404.71	Static		2718.44	Sierrita
					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
					10/26/16	404.72	Static		2718.43	Sierrita
					1/10/17	404.50	Static		2718.65	Sierrita
					3/9/17	391.53	Static		2731.62	Sierrita
					4/5/17	396.50	Static		2726.65	Sierrita
					7/6/17	395.78	Static		2727.37	Sierrita
					10/11/17	387.59	Static		2735.56	Sierrita
					4/10/18	388.52	Static		2734.63	Sierrita
					8/7/18	392.58	Static		2730.57	Sierrita
					10/16/18	395.19	Static		2727.96	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MH-30	903884	3525926.812	496682.307	3232.45	11/10/06	422.78			2809.67	Sierrita
					1/9/07	421.65			2810.80	Sierrita
					4/9/07	419.32			2813.13	Sierrita
					7/11/07	416.85			2815.60	Sierrita
					10/2/07	416.95			2815.50	Sierrita
					1/18/08	417.34			2815.11	Sierrita
					4/8/08	418.12			2814.33	Sierrita
					7/1/08	417.71			2814.74	Sierrita
					10/6/08	417.11			2815.34	Sierrita
					1/7/09	416.37			2816.08	Sierrita
					4/7/09	415.10			2817.35	Sierrita
					4/15/10	412.03			2820.42	Sierrita
					5/17/11	412.18			2820.27	Sierrita
					4/26/12	420.61			2811.84	Sierrita
					6/6/13	427.36			2805.09	Sierrita
					3/12/14	429.01			2803.44	Sierrita
					4/8/14	429.46			2802.99	Sierrita
					5/14/14	429.47			2802.98	Sierrita
					6/24/14	429.48			2802.97	Sierrita
					7/29/14	430.12			2802.33	Sierrita
					8/8/14	430.23			2802.22	Sierrita
					9/9/14	430.41	Static		2802.04	Sierrita
					10/28/14	451.78			2780.67	Sierrita
					11/26/14	430.82			2801.63	Sierrita
					12/20/14	436.19	Static		2796.26	Sierrita
					1/29/15	440.11	Static		2792.34	Sierrita
					2/27/15	442.88	Static		2789.57	Sierrita
					3/26/15	431.34	Static		2801.11	Sierrita
					4/21/15	431.27	Static		2801.18	Sierrita
					5/21/15	431.31	Static		2801.14	Sierrita
					6/2/15	431.28	Static		2801.17	Sierrita
					7/23/15	431.55	Static		2800.90	Sierrita
					8/25/15	431.70	Static		2800.75	Sierrita
					11/2/15	431.92	Static		2800.53	Sierrita
					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
					12/8/16	431.40	Static		2801.05	Sierrita
					6/1/17	425.81	Static		2806.64	Sierrita
					11/14/17	425.58	Static		2806.87	Sierrita
					4/11/18	426.29	Static		2806.16	Sierrita
					11/15/18	428.43	Static		2804.02	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-1A	907342	3529331.233	500016.988	2964.66	7/30/07	425.87			2538.79	Sierrita
					10/9/07	428.32			2536.34	Sierrita
					1/24/08	426.32			2538.34	Sierrita
					4/9/08	424.72			2539.94	Sierrita
					7/14/08	428.42			2536.24	Sierrita
					10/17/08	431.02			2533.64	Sierrita
					1/16/09	428.90			2535.76	Sierrita
					4/1/09	426.86			2537.80	Sierrita
					7/1/09	426.90			2537.76	Sierrita
					10/22/09	434.05			2530.61	Sierrita
					4/16/10	428.89			2535.77	Sierrita
					10/13/10	434.09			2530.57	Sierrita
					5/5/11	429.31			2535.35	Sierrita
					10/6/11	433.60			2531.06	Sierrita
					6/12/12	431.38			2533.28	Sierrita
					10/24/12	435.12			2529.54	Sierrita
					4/8/13	429.69			2534.97	Sierrita
					10/23/13	435.06			2529.60	Sierrita
					3/12/14	435.92			2528.74	Sierrita
					4/29/14	437.74			2526.92	Sierrita
					5/8/14	437.72			2526.94	Sierrita
					6/9/14	440.59			2524.07	Sierrita
					7/28/14	443.83			2520.83	Sierrita
					8/7/14	444.58			2520.08	Sierrita
					9/8/14	445.78	Static		2518.88	Sierrita
					10/28/14	448.18			2516.48	Sierrita
					11/12/14	448.42			2516.24	Sierrita
					12/16/14	448.63	Static		2516.03	Sierrita
					1/29/15	448.74	Static		2515.92	Sierrita
					2/27/15	448.80	Static		2515.86	Sierrita
					3/12/15	448.48	Static		2516.18	Sierrita
					4/22/15	449.85	Static		2514.81	Sierrita
					5/21/15	450.06	Static		2514.60	Sierrita
					6/1/15	450.21	Static		2514.45	Sierrita
					7/23/15	454.05	Static		2510.61	Sierrita
					8/25/15	455.41	Static		2509.25	Sierrita
					10/20/15	456.84	Static		2507.82	Sierrita
					11/6/15	456.90	Static		2507.76	Sierrita
					1/7/16	456.62	Static		2508.04	Sierrita
					2/12/16	455.97	Static		2508.69	Sierrita
					3/7/16	455.84	Static		2508.82	Sierrita
					4/7/16	456.52	Static		2508.14	Sierrita
					10/5/16	463.11	Static		2501.55	Sierrita
					3/22/17	462.82	Static		2501.84	Sierrita
					6/6/17	467.81	Static		2496.85	Sierrita
					10/5/17	472.40	Static		2492.26	Sierrita
					4/12/18	473.25	Static		2491.41	Sierrita
					11/19/18	479.12	Static		2485.54	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-1B	907210	3529328.840	500021.700	2964.84	7/30/07	425.67			2539.17	Sierrita
					10/9/07	429.20			2535.64	Sierrita
					1/24/08	426.41			2538.43	Sierrita
					4/9/08	425.05			2539.79	Sierrita
					7/14/08	428.98			2535.86	Sierrita
					10/17/08	431.64			2533.20	Sierrita
					1/16/09	429.05			2535.79	Sierrita
					4/1/09	427.23			2537.61	Sierrita
					7/1/09	427.70			2537.14	Sierrita
					10/22/09	434.90			2529.94	Sierrita
					4/16/10	429.13			2535.71	Sierrita
					10/13/10	434.47			2530.37	Sierrita
					5/5/11	429.65			2535.19	Sierrita
					10/6/11	434.10			2530.74	Sierrita
					6/12/12	431.95			2532.89	Sierrita
					10/24/12	435.62			2529.22	Sierrita
					4/8/13	429.03			2535.81	Sierrita
					10/23/13	435.71			2529.13	Sierrita
					3/12/14	436.56			2528.28	Sierrita
					4/29/14	438.64			2526.20	Sierrita
					5/8/14	438.67			2526.17	Sierrita
					6/9/14	441.65			2523.19	Sierrita
					7/28/14	444.85			2519.99	Sierrita
					8/7/14	445.81			2519.03	Sierrita
					9/8/14	446.61	Static		2518.23	Sierrita
					10/28/14	448.92			2515.92	Sierrita
					11/12/14	449.05			2515.79	Sierrita
					12/16/14	449.19	Static		2515.65	Sierrita
					1/29/15	449.18	Static		2515.66	Sierrita
					2/27/15	449.19	Static		2515.65	Sierrita
					3/12/15	448.97	Static		2515.87	Sierrita
					4/22/15	450.52	Static		2514.32	Sierrita
					5/21/15	451.10	Static		2513.74	Sierrita
					6/1/15	451.56	Static		2513.28	Sierrita
					7/23/15	454.96	Static		2509.88	Sierrita
					8/25/15	456.16	Static		2508.68	Sierrita
					10/20/15	457.46	Static		2507.38	Sierrita
					11/6/15	457.51	Static		2507.33	Sierrita
					1/7/16	456.88	Static		2507.96	Sierrita
					2/12/16	456.39	Static		2508.45	Sierrita
					3/7/16	456.05	Static		2508.79	Sierrita
					4/7/16	457.18	Static		2507.66	Sierrita
					10/5/16	463.83	Static		2501.01	Sierrita
					3/22/17	463.35	Static		2501.49	Sierrita
					6/6/17	468.72	Static		2496.12	Sierrita
					10/5/17	472.50	Static		2492.34	Sierrita
					4/12/18	473.23	Static		2491.61	Sierrita
					11/19/18	479.30	Static		2485.54	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-1C	907209	3529328.777	500013.371	2968.58	7/30/07	423.87			2544.71	Sierrita
					10/9/07	427.02			2541.56	Sierrita
					1/24/08	424.00			2544.58	Sierrita
					4/9/08	423.30			2545.28	Sierrita
					7/14/08	426.73			2541.85	Sierrita
					10/21/08	429.49			2539.09	Sierrita
					1/16/09	426.75			2541.83	Sierrita
					4/1/09	424.90			2543.68	Sierrita
					7/1/09	428.81			2539.77	Sierrita
					10/22/09	427.60			2540.98	Sierrita
					4/16/10	426.93			2541.65	Sierrita
					10/13/10	431.88			2536.70	Sierrita
					4/20/11	427.32			2541.26	Sierrita
					10/6/11	431.80			2536.78	Sierrita
					6/12/12	429.40			2539.18	Sierrita
					10/24/12	433.08			2535.50	Sierrita
					4/8/13	426.50			2542.08	Sierrita
					10/23/13	433.06			2535.52	Sierrita
					3/12/14	434.69			2533.89	Sierrita
					4/29/14	437.08			2531.50	Sierrita
					5/8/14	436.98			2531.60	Sierrita
					6/9/14	440.40			2528.18	Sierrita
					7/28/14	443.49			2525.09	Sierrita
					8/7/14	444.30			2524.28	Sierrita
					9/8/14	445.02	Static		2523.56	Sierrita
					10/28/14	447.53			2521.05	Sierrita
					11/12/14	447.62			2520.96	Sierrita
					12/16/14	447.70	Static		2520.88	Sierrita
					1/29/15	447.80	Static		2520.78	Sierrita
					2/27/15	447.84	Static		2520.74	Sierrita
					3/12/15	447.72	Static		2520.86	Sierrita
					4/22/15	449.56	Static		2519.02	Sierrita
					5/21/15	450.74	Static		2517.84	Sierrita
					6/1/15	451.18	Static		2517.40	Sierrita
					7/23/15	454.01	Static		2514.57	Sierrita
					8/25/15	455.18	Static		2513.40	Sierrita
					10/20/15	456.30	Static		2512.28	Sierrita
					11/6/15	456.67	Static		2511.91	Sierrita
					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
					10/5/16	463.00	Static		2505.58	Sierrita
					3/22/17	463.00	Static		2505.58	Sierrita
					6/6/17	468.71	Static		2499.87	Sierrita
					10/5/17	471.62	Static		2496.96	Sierrita
					4/12/18	472.73	Static		2495.85	Sierrita
					11/19/18	478.40	Static		2490.18	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-2	906765	3527621.127	497911.604	3150.87	8/9/07	575.30			2575.57	Sierrita
					10/9/07	576.60			2574.27	Sierrita
					1/22/08	577.22			2573.65	Sierrita
					4/17/08	576.65			2574.22	Sierrita
					7/14/08	577.35			2573.52	Sierrita
					10/17/08	578.54			2572.33	Sierrita
					1/15/09	579.10			2571.77	Sierrita
					4/1/09	578.38			2572.49	Sierrita
					4/13/10	580.50			2570.37	Sierrita
					4/27/11	581.41			2569.46	Sierrita
					5/2/12	581.75			2569.12	Sierrita
					4/8/13	582.45			2568.42	Sierrita
					3/12/14	592.12			2558.75	Sierrita
					4/9/14	591.93			2558.94	Sierrita
					5/8/14	590.86			2560.01	Sierrita
					6/9/14	600.45			2550.42	Sierrita
					7/28/14	604.52			2546.35	Sierrita
					8/7/14	605.29			2545.58	Sierrita
					9/8/14	607.39	Static		2543.48	Sierrita
					10/28/14	610.63			2540.24	Sierrita
					11/26/14	612.53			2538.34	Sierrita
					12/16/14	613.88	Static		2536.99	Sierrita
					1/29/15	615.76	Static		2535.11	Sierrita
					2/17/15	616.21	Static		2534.66	Sierrita
					3/12/15	617.30	Static		2533.57	Sierrita
					4/7/15	618.25	Static		2532.62	Sierrita
					5/21/15	619.83	Static		2531.04	Sierrita
					6/1/15	620.29	Static		2530.58	Sierrita
					7/22/15	621.75	Static		2529.12	Sierrita
					8/14/15	622.49	Static		2528.38	Sierrita
					11/18/15	625.66	Static		2525.21	Sierrita
					1/7/16	UTM		NA	Sierrita	
					2/11/16	UTM		NA	Sierrita	
					3/7/16	UTM		NA	Sierrita	
					6/8/16	UTM		NA	Sierrita	
					12/8/16	633.18	Static		2517.69	Sierrita
					4/20/17	638.15	Static		2512.72	Sierrita
					11/14/17	639.35	Static		2511.52	Sierrita
					4/19/18	644.01	Static		2506.86	Sierrita
					11/15/18	643.73	Static		2507.14	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-3B ⁴	906816	3528508.810	500522.410	2909.12	9/10/07		359.38		2549.74	Sierrita
					10/9/07		359.55		2549.57	Sierrita
					1/21/08		357.13		2551.99	Sierrita
					4/16/08		357.10		2552.02	Sierrita
					7/14/08		358.71		2550.41	Sierrita
					10/22/08		361.77		2547.35	Sierrita
					1/19/09		358.95		2550.17	Sierrita
					4/1/09		357.70		2551.42	Sierrita
					7/27/09		361.21		2547.91	Sierrita
					10/22/09		365.50		2543.62	Sierrita
					3/11/10		359.36		2549.76	Sierrita
					4/14/10		360.30		2548.82	Sierrita
					7/21/10		362.20		2546.92	Sierrita
					10/26/10		364.82		2544.30	Sierrita
					1/18/11		361.99		2547.13	Sierrita
					5/4/11		361.59		2547.53	Sierrita
					7/6/11		363.80		2545.32	Sierrita
					11/22/11		365.10		2544.02	Sierrita
					1/11/12		363.36		2545.76	Sierrita
					5/8/12		362.09		2547.03	Sierrita
					8/7/12		363.87		2545.25	Sierrita
					1/8/13		362.33		2546.79	Sierrita
					4/9/13		360.13		2548.99	Sierrita
					5/21/13		359.84		2549.28	Sierrita
					8/27/13		365.16		2543.96	Sierrita
					10/24/13		366.19		2542.93	Sierrita
					1/7/14		364.11		2545.01	Sierrita
					3/12/14		368.18		2540.94	Sierrita
					4/16/14		369.34		2539.78	Sierrita
					5/14/14		369.35		2539.77	Sierrita
					6/23/14		369.35		2539.77	Sierrita
					7/1/14		375.64		2533.48	Sierrita
					7/8/14		375.64		2533.48	Sierrita
					8/8/14		377.48		2531.64	Sierrita
					9/9/14		378.82	Static	2530.30	Sierrita
					10/29/14		379.96		2529.16	Sierrita
					11/13/14		381.17		2527.95	Sierrita
					12/17/14		382.07	Static	2527.05	Sierrita
					1/21/15		382.22	Static	2526.90	Sierrita
					2/27/15		382.40	Static	2526.72	Sierrita
					3/26/15		382.99	Static	2526.13	Sierrita
					4/27/15		384.26	Static	2524.86	Sierrita
					5/21/15		385.07	Static	2524.05	Sierrita
					6/2/15		385.86	Static	2523.26	Sierrita
					7/7/15		388.29	Static	2520.83	Sierrita
					8/14/15		390.46	Static	2518.66	Sierrita
					10/21/15		390.68	Static	2518.44	Sierrita
					11/2/15		390.72	Static	2518.40	Sierrita
					1/4/16		391.00	Static	2518.12	Sierrita
					2/11/16		391.06	Static	2518.06	Sierrita
					3/11/16		391.15	Static	2517.97	Sierrita
					4/11/16		392.36	Static	2516.76	Sierrita
					7/6/16		395.89	Static	2513.23	Sierrita
					8/24/16		397.00	Static	2512.12	Sierrita
					10/5/16		398.28	Static	2510.84	Sierrita
					1/10/17		397.80	Static	2511.32	Sierrita
					5/3/17		400.61	Static	2508.51	Sierrita
					7/12/17		404.75	Static	2504.37	Sierrita
					10/9/17		408.01	Static	2501.11	Sierrita
					1/10/18		407.01	Static	2502.11	Sierrita
					4/17/18		410.14	Static	2498.98	Sierrita
					8/8/18		413.65	Static	2495.47	Sierrita
					11/28/18		420.40	Static	2488.72	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-3C	906817	3528508.800	500529.710	2908.87	7/5/07	356.30			2552.57	Sierrita
					10/10/07	359.85			2549.02	Sierrita
					1/21/08	356.74			2552.13	Sierrita
					4/15/08	357.18			2551.69	Sierrita
					7/14/08	359.84			2549.03	Sierrita
					10/21/08	361.99			2546.88	Sierrita
					1/19/09	359.61			2549.26	Sierrita
					4/1/09	358			2550.87	Sierrita
					7/22/09	362			2546.87	Sierrita
					10/22/09	362.80			2546.07	Sierrita
					3/11/10	359.62			2549.25	Sierrita
					4/14/10	360.45			2548.42	Sierrita
					7/21/10	367.50			2541.37	Sierrita
					10/26/10	365.13			2543.74	Sierrita
					1/18/11	361.62			2547.25	Sierrita
					5/4/11	361.61			2547.26	Sierrita
					7/6/11	363.75			2545.12	Sierrita
					10/5/11	365.50			2543.37	Sierrita
					1/11/12	363.36			2545.51	Sierrita
					5/7/12	362.35			2546.52	Sierrita
					8/7/12	364.49			2544.38	Sierrita
					10/10/12	366.50			2542.37	Sierrita
					1/8/13	362.59			2546.28	Sierrita
					4/9/13	360.45			2548.42	Sierrita
					8/27/13	365.47			2543.40	Sierrita
					10/24/13	366.79			2542.08	Sierrita
					1/7/14	364.19			2544.68	Sierrita
					3/12/14	368.09			2540.78	Sierrita
					4/16/14	369.60			2539.27	Sierrita
					5/14/14	369.63			2539.24	Sierrita
					6/23/14	369.65			2539.22	Sierrita
					7/1/14	376.55			2532.32	Sierrita
					7/9/14	376.55			2532.32	Sierrita
					8/8/14	377.79			2531.08	Sierrita
					9/9/14	379.28	Static		2529.59	Sierrita
					10/29/14	380.51			2528.36	Sierrita
					11/13/14	381.92			2526.95	Sierrita
					12/17/14	383.22	Static		2525.65	Sierrita
					1/21/15	381.99	Static		2526.88	Sierrita
					2/27/15	382.14	Static		2526.73	Sierrita
					3/26/15	383.42	Static		2525.45	Sierrita
					4/27/15	384.85	Static		2524.02	Sierrita
					5/21/15	385.50	Static		2523.37	Sierrita
					6/2/15	386.10	Static		2522.77	Sierrita
					7/7/15	389.01	Static		2519.86	Sierrita
					8/14/15	391.60	Static		2517.27	Sierrita
					10/21/15	391.47	Static		2517.40	Sierrita
					11/2/15	391.43	Static		2517.44	Sierrita
					1/4/16	391.32	Static		2517.55	Sierrita
					2/11/16	391.29	Static		2517.58	Sierrita
					3/11/16	391.35	Static		2517.52	Sierrita
					4/11/16	392.60	Static		2516.27	Sierrita
					7/6/16	396.00	Static		2512.87	Sierrita
					8/24/16	397.63	Static		2511.24	Sierrita
					10/5/16	398.89	Static		2509.98	Sierrita
					1/10/17	397.75	Static		2511.12	Sierrita
					5/3/17	401.03	Static		2507.84	Sierrita
					7/12/17	405.00	Static		2503.87	Sierrita
					10/9/17	408.00	Static		2500.87	Sierrita
					1/11/18	408.19	Static		2500.68	Sierrita
					4/17/18	409.84	Static		2499.03	Sierrita
					8/8/18	413.71	Static		2495.16	Sierrita
					11/26/18	413.02	Static		2495.85	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-4A	907213	3525634.956	500383.682	2923.63	10/9/07	307.67			2615.96	Sierrita
					1/22/08	303.85			2619.78	Sierrita
					4/16/08	305.46			2618.17	Sierrita
					7/17/08	308.05			2615.58	Sierrita
					10/22/08	309.65			2613.98	Sierrita
					1/19/09	306.28			2617.35	Sierrita
					4/2/09	306.69			2616.94	Sierrita
					7/1/09	307.92			2615.71	Sierrita
					10/26/09	309.10			2614.53	Sierrita
					1/26/10	308.52			2615.11	Sierrita
					4/14/10	308.53			2615.10	Sierrita
					7/21/10	311.05			2612.58	Sierrita
					10/13/10	312.00			2611.63	Sierrita
					1/19/11	308.82			2614.81	Sierrita
					5/4/11	309.68			2613.95	Sierrita
					7/6/11	311.75			2611.88	Sierrita
					10/5/11	312.50			2611.13	Sierrita
					1/17/12	310.05			2613.58	Sierrita
					5/7/12	310.42			2613.21	Sierrita
					8/13/12	313.30			2610.33	Sierrita
					10/23/12	314.17			2609.46	Sierrita
					2/21/13	311.70			2611.93	Sierrita
					4/10/13	312.68			2610.95	Sierrita
					7/10/13	316.31			2607.32	Sierrita
					10/22/13	318.07			2605.56	Sierrita
					1/10/14	316.34			2607.29	Sierrita
					3/12/14	319.78			2603.85	Sierrita
					4/8/14	321.40			2602.23	Sierrita
					5/6/14	321.36			2602.27	Sierrita
					6/23/14	321.33			2602.30	Sierrita
					7/8/14	329.06			2594.57	Sierrita
					8/8/14	331.16			2592.47	Sierrita
					9/9/14	332.77	Static		2590.86	Sierrita
					10/29/14	334.28			2589.35	Sierrita
					11/12/14	335.68			2587.95	Sierrita
					12/17/14	336.93	Static		2586.70	Sierrita
					1/14/15	337.62	Static		2586.01	Sierrita
					2/27/15	337.92	Static		2585.71	Sierrita
					3/26/15	339.75	Static		2583.88	Sierrita
					4/15/15	340.81	Static		2582.82	Sierrita
					5/21/15	340.96	Static		2582.67	Sierrita
					6/2/15	341.09	Static		2582.54	Sierrita
					7/8/15	345.02	Static		2578.61	Sierrita
					8/14/15	348.22	Static		2575.41	Sierrita
					10/22/15	349.01	Static		2574.62	Sierrita
					11/2/15	349.11	Static		2574.52	Sierrita
					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
					10/25/16	359.05	Static		2564.58	Sierrita
					1/12/17	359.41	Static		2564.22	Sierrita
					5/3/17	361.97	Static		2561.66	Sierrita
					7/13/17	364.39	Static		2559.24	Sierrita
					10/10/17	366.11	Static		2557.52	Sierrita
					1/15/18	365.30	Static		2558.33	Sierrita
					4/16/18	366.83	Static		2556.80	Sierrita
					8/9/18	369.48	Static		2554.15	Sierrita
					12/3/18	368.91	Static		2554.72	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-4B	907212	3525613.952	500380.947	2923.57	10/11/07		308.72		2614.85	Sierrita
					1/7/08		304.22		2619.35	Sierrita
					4/16/08		306.48		2617.09	Sierrita
					7/18/08		308.95		2614.62	Sierrita
					10/22/08		310.77		2612.80	Sierrita
					1/21/09		306		2617.57	Sierrita
					4/2/09		306.72		2616.85	Sierrita
					7/1/09		309.1		2614.47	Sierrita
					10/26/09		313.00		2610.57	Sierrita
					1/26/10		308.29		2615.28	Sierrita
					4/14/10		308.79		2614.78	Sierrita
					7/21/10		311.22		2612.35	Sierrita
					10/13/10		312.39		2611.18	Sierrita
					1/19/11		308.84		2614.73	Sierrita
					5/4/11		310.40		2613.17	Sierrita
					7/6/11		312.85		2610.72	Sierrita
					10/5/11		313.50		2610.07	Sierrita
					1/17/12		309.81		2613.76	Sierrita
					5/7/12		311.47		2612.10	Sierrita
					8/13/12		314.42		2609.15	Sierrita
					10/23/12		315.28		2608.29	Sierrita
					2/21/13		311.79		2611.78	Sierrita
					4/10/13		313.17		2610.40	Sierrita
					7/10/13		317.96		2605.61	Sierrita
					10/22/13		319.56		2604.01	Sierrita
					1/10/14		316.92		2606.65	Sierrita
					3/12/14		322.35		2601.22	Sierrita
					4/8/14		324.09		2599.48	Sierrita
					5/6/14		324.03		2599.54	Sierrita
					6/23/14		324.00		2599.57	Sierrita
					7/8/14		333.65		2589.92	Sierrita
					8/8/14		335.20		2588.37	Sierrita
					9/9/14		336.99	Static	2586.58	Sierrita
					10/29/14		338.56		2585.01	Sierrita
					11/12/14		339.10		2584.47	Sierrita
					12/17/14		339.66	Static	2583.91	Sierrita
					1/14/15		340.55	Static	2583.02	Sierrita
					2/27/15		340.70	Static	2582.87	Sierrita
					3/26/15		343.16	Static	2580.41	Sierrita
					4/15/15		345.50	Static	2578.07	Sierrita
					5/21/15		346.89	Static	2576.68	Sierrita
					6/2/15		348.27	Static	2575.30	Sierrita
					7/8/15		348.40	Static	2575.17	Sierrita
					8/14/15		348.79	Static	2574.78	Sierrita
					10/22/15		351.65	Static	2571.92	Sierrita
					11/2/15		351.79	Static	2571.78	Sierrita
					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
					10/25/16		362.00	Static	2561.57	Sierrita
					1/12/17		360.51	Static	2563.06	Sierrita
					5/3/17		364.61	Static	2558.96	Sierrita
					7/13/17		366.76	Static	2556.81	Sierrita
					10/10/17		371.87	Static	2551.70	Sierrita
					1/15/18		365.55	Static	2558.02	Sierrita
					4/16/18		367.90	Static	2555.67	Sierrita
					8/9/18		370.81	Static	2552.76	Sierrita
					12/3/18		368.75	Static	2554.82	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-4C	907211	3525624.484	500382.217	2923.66	8/12/07		307.13		2616.53	Sierrita
					10/12/07		308.78		2614.88	Sierrita
					1/22/08		304.90		2618.76	Sierrita
					4/16/08		306.75		2616.91	Sierrita
					7/18/08		309.10		2614.56	Sierrita
					10/22/08		311.41		2612.25	Sierrita
					1/21/09		306.80		2616.86	Sierrita
					4/2/09		311.49		2612.17	Sierrita
					7/1/09		311.68		2611.98	Sierrita
					10/26/09		311.30		2612.36	Sierrita
					1/26/10		309.53		2614.13	Sierrita
					4/14/10		309.58		2614.08	Sierrita
					7/21/10		312.75		2610.91	Sierrita
					10/13/10		313.49		2610.17	Sierrita
					1/19/11		309.94		2613.72	Sierrita
					5/4/11		311.53		2612.13	Sierrita
					7/6/11		314.05		2609.61	Sierrita
					10/5/11		314.80		2608.86	Sierrita
					1/12/12		311.00		2612.66	Sierrita
					5/7/12		312.37		2611.29	Sierrita
					8/13/12		315.55		2608.11	Sierrita
					10/23/12		316.47		2607.19	Sierrita
					2/21/13		312.89		2610.77	Sierrita
					4/10/13		314.14		2609.52	Sierrita
					7/10/13		318.94		2604.72	Sierrita
					10/22/13		320.63		2603.03	Sierrita
					1/10/14		318.02		2605.64	Sierrita
					3/12/14		323.88		2599.78	Sierrita
					4/8/14		325.83		2597.83	Sierrita
					5/6/14		325.81		2597.85	Sierrita
					6/23/14		325.84		2597.82	Sierrita
					7/8/14		335.70		2587.96	Sierrita
					8/8/14		336.88		2586.78	Sierrita
					9/9/14		338.81	Static	2584.85	Sierrita
					10/29/14		340.60		2583.06	Sierrita
					11/12/14		341.00		2582.66	Sierrita
					12/17/14		341.53	Static	2582.13	Sierrita
					1/14/15		342.40	Static	2581.26	Sierrita
					2/27/15		342.47	Static	2581.19	Sierrita
					3/26/15		344.92	Static	2578.74	Sierrita
					4/15/15		347.40	Static	2576.26	Sierrita
					5/21/15		349.11	Static	2574.55	Sierrita
					6/2/15		350.79	Static	2572.87	Sierrita
					7/8/15		350.81	Static	2572.85	Sierrita
					8/14/15		350.93	Static	2572.73	Sierrita
					10/22/15		353.38	Static	2570.28	Sierrita
					11/2/15		353.47	Static	2570.19	Sierrita
					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
					10/25/16		363.81	Static	2559.85	Sierrita
					1/12/17		362.22	Static	2561.44	Sierrita
					5/3/17		366.20	Static	2557.46	Sierrita
					7/13/17		368.30	Static	2555.36	Sierrita
					10/10/17		369.79	Static	2553.87	Sierrita
					1/15/18		367.13	Static	2556.53	Sierrita
					4/16/18		369.39	Static	2554.27	Sierrita
					8/9/18		372.30	Static	2551.36	Sierrita
					12/3/18		370.11	Static	2553.55	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-5B	907456	3523743.376	500013.850	2944.35	10/12/07	268.27			2676.08	Sierrita
					1/7/08	262.09			2682.26	Sierrita
					4/17/08	266.22			2678.13	Sierrita
					7/24/08	268.61			2675.74	Sierrita
					10/23/08	272.16			2672.19	Sierrita
					1/21/09	265.83			2678.52	Sierrita
					4/2/09	269.20			2675.15	Sierrita
					1/25/10	268.30			2676.05	Sierrita
					4/27/10	268.02			2676.33	Sierrita
					12/10/10	272.31			2672.04	Sierrita
					6/24/11	275.70			2668.65	Sierrita
					11/21/11	273.28			2671.07	Sierrita
					6/20/12	277.46			2666.89	Sierrita
					11/6/12	280.33			2664.02	Sierrita
					6/12/13	288.32			2656.03	Sierrita
					10/24/13	287.84			2656.51	Sierrita
					3/12/14	287.24			2657.11	Sierrita
					4/29/14	294.80			2649.55	Sierrita
					5/14/14	294.78			2649.57	Sierrita
					6/23/14	294.76			2649.59	Sierrita
					7/28/14	299.29			2645.06	Sierrita
					8/7/14	301.38			2642.97	Sierrita
					9/8/14	302.31	Static		2642.04	Sierrita
					10/15/14	300.14			2644.21	Sierrita
					11/26/14	300.87			2643.48	Sierrita
					12/17/14	301.43	Static		2642.92	Sierrita
					1/29/15	301.89	Static		2642.46	Sierrita
					2/27/15	302.08	Static		2642.27	Sierrita
					3/18/15	303.65	Static		2640.70	Sierrita
					4/28/15	307.69	Static		2636.66	Sierrita
					5/21/15	309.80	Static		2634.55	Sierrita
					6/2/15	311.87	Static		2632.48	Sierrita
					7/24/15	311.80	Static		2632.55	Sierrita
					8/25/15	312.19	Static		2632.16	Sierrita
					11/4/15	312.41	Static		2631.94	Sierrita
					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
					10/26/16	315.69	Static		2628.66	Sierrita
					5/2/17	319.01	Static		2625.34	Sierrita
					7/12/17	322.88	Static		2621.47	Sierrita
					10/4/17	320.55	Static		2623.80	Sierrita
					4/18/18	315.95	Static		2628.40	Sierrita
					11/20/18	316.81	Static		2627.54	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-5C	907457	3523736.459	500014.152	2944.91	8/23/07	294.04			2650.87	Sierrita
					10/13/07	289.70			2655.21	Sierrita
					1/7/08	285.09			2659.82	Sierrita
					4/17/08	281.52			2663.39	Sierrita
					7/24/08	282.42			2662.49	Sierrita
					10/23/08	285.03			2659.88	Sierrita
					1/22/09	281.38			2663.53	Sierrita
					5/13/09	282.35			2662.56	Sierrita
					10/27/09	284.70			2660.21	Sierrita
					4/27/10	276.49			2668.42	Sierrita
					12/10/10	278.31			2666.60	Sierrita
					5/24/11	278.21			2666.70	Sierrita
					11/21/11	280.98			2663.93	Sierrita
					6/18/12	281.66			2663.25	Sierrita
					11/6/12	286.84			2658.07	Sierrita
					6/13/13	292.47			2652.44	Sierrita
					11/12/13	292.49			2652.42	Sierrita
					3/12/14	291.79			2653.12	Sierrita
					5/6/14	298.74			2646.17	Sierrita
					6/23/14	298.76			2646.15	Sierrita
					7/28/14	304.81			2640.10	Sierrita
					8/7/14	305.34			2639.57	Sierrita
					9/8/14	305.94	Static		2638.97	Sierrita
					10/15/14	305.76			2639.15	Sierrita
					11/26/14	305.90			2639.01	Sierrita
					12/17/14	306.05	Static		2638.86	Sierrita
					1/29/15	306.20	Static		2638.71	Sierrita
					2/27/15	306.28	Static		2638.63	Sierrita
					3/18/15	307.24	Static		2637.67	Sierrita
					4/28/15	311.45	Static		2633.46	Sierrita
					5/21/15	314.13	Static		2630.78	Sierrita
					6/2/15	316.83	Static		2628.08	Sierrita
					7/24/15	316.72	Static		2628.19	Sierrita
					8/25/15	316.75	Static		2628.16	Sierrita
					11/4/15	316.90	Static		2628.01	Sierrita
					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
					10/26/16	325.16	Static		2619.75	Sierrita
					5/2/17	325.36	Static		2619.55	Sierrita
					7/12/17	331.48	Static		2613.43	Sierrita
					10/4/17	329.00	Static		2615.91	Sierrita
					4/18/18	323.57	Static		2621.34	Sierrita
					11/20/18	325.12	Static		2619.79	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-6A	907607	3521842.050	498367.161	3043.37	10/2/07	303.60			2739.77	Sierrita
					1/22/08	303.27			2740.10	Sierrita
					4/18/08	304.02			2739.35	Sierrita
					7/24/08	305.81			2737.56	Sierrita
					10/23/08	307.85			2735.52	Sierrita
					1/22/09	305.87			2737.50	Sierrita
					4/2/09	304.87			2738.50	Sierrita
					7/22/09	307.15			2736.22	Sierrita
					10/26/09	307.00			2736.37	Sierrita
					3/11/10	306.15			2737.22	Sierrita
					4/21/10	306.44			2736.93	Sierrita
					8/10/10	309.12			2734.25	Sierrita
					10/26/10	308.95			2734.42	Sierrita
					1/18/11	307.78			2735.59	Sierrita
					5/5/11	308.13			2735.24	Sierrita
					7/7/11	309.90			2733.47	Sierrita
					10/6/11	311.10			2732.27	Sierrita
					1/11/12	311.24			2732.13	Sierrita
					6/12/12	314.95			2728.42	Sierrita
					8/13/12	317.93			2725.44	Sierrita
					10/18/12	316.94			2726.43	Sierrita
					1/8/13	321.98			2721.39	Sierrita
					4/9/13	323.05			2720.32	Sierrita
					7/10/13	326.23			2717.14	Sierrita
					10/22/13	329.74			2713.63	Sierrita
					1/6/14	329.94			2713.43	Sierrita
					3/12/14	329.85			2713.52	Sierrita
					4/9/14	330.14			2713.23	Sierrita
					5/14/14	330.12			2713.25	Sierrita
					6/23/14	330.08			2713.29	Sierrita
					7/8/14	331.19			2712.18	Sierrita
					8/7/14	331.41			2711.96	Sierrita
					9/8/14	331.78	Static		2711.59	Sierrita
					10/29/14	331.92			2711.45	Sierrita
					11/26/14	332.08			2711.29	Sierrita
					12/2/14	331.73	Static		2711.64	Sierrita
					1/8/15	332.23	Static		2711.14	Sierrita
					2/27/15	332.26	Static		2711.11	Sierrita
					3/18/15	331.64	Static		2711.73	Sierrita
					4/16/15	332.31	Static		2711.06	Sierrita
					5/21/15	332.86	Static		2710.51	Sierrita
					6/2/15	333.38	Static		2709.99	Sierrita
					7/2/15	335.11	Static		2708.26	Sierrita
					8/25/15	335.91	Static		2707.46	Sierrita
					10/19/15	336.37	Static		2707.00	Sierrita
					11/5/15	336.32	Static		2707.05	Sierrita
					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
					10/25/16	331.40	Static		2711.97	Sierrita
					1/11/17	329.40	Static		2713.97	Sierrita
					5/3/17	330.05	Static		2713.32	Sierrita
					7/13/17	332.15	Static		2711.22	Sierrita
					10/11/17	331.00	Static		2712.37	Sierrita
					1/11/18	328.20	Static		2715.17	Sierrita
					4/17/18	327.02	Static		2716.35	Sierrita
					8/13/18	329.32	Static		2714.05	Sierrita
					11/19/18	331.00	Static		2712.37	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2007-6B	907606	3521849.495	498367.887	3043.05	10/4/07	319.17			2723.88	Sierrita
					1/21/08	314.78			2728.27	Sierrita
					4/17/08	314.75			2728.30	Sierrita
					7/24/08	317.04			2726.01	Sierrita
					10/23/08	318.17			2724.88	Sierrita
					1/22/09	316.58			2726.47	Sierrita
					4/2/09	316.05			2727.00	Sierrita
					7/22/09	317.49			2725.56	Sierrita
					10/26/09	319.37			2723.68	Sierrita
					3/11/10	316.58			2726.47	Sierrita
					4/21/10	316.64			2726.41	Sierrita
					8/10/10	318.40			2724.65	Sierrita
					10/26/10	318.66			2724.39	Sierrita
					1/18/11	317.52			2725.53	Sierrita
					5/5/11	317.00			2726.05	Sierrita
					7/7/11	318.58			2724.47	Sierrita
					10/6/11	319.92			2723.13	Sierrita
					1/11/12	320.03			2723.02	Sierrita
					6/12/12	325.69			2717.36	Sierrita
					8/13/12	329.12			2713.93	Sierrita
					10/18/12	332.52			2710.53	Sierrita
					1/8/13	333.92			2709.13	Sierrita
					4/9/13	335.80			2707.25	Sierrita
					7/10/13	337.52			2705.53	Sierrita
					10/22/13	340.62			2702.43	Sierrita
					1/6/14	340.62			2702.43	Sierrita
					3/12/14	340.61			2702.44	Sierrita
					4/9/14	340.98			2702.07	Sierrita
					5/14/14	341.00			2702.05	Sierrita
					6/23/14	341.04			2702.01	Sierrita
					7/8/14	341.95			2701.10	Sierrita
					8/7/14	342.50			2700.55	Sierrita
					9/8/14	342.88	Static		2700.17	Sierrita
					10/29/14	342.96			2700.09	Sierrita
					11/26/14	343.11			2699.94	Sierrita
					12/2/14	345.25			2697.80	Sierrita
					1/8/15	346.10	Static		2696.95	Sierrita
					2/27/15	346.87	Static		2696.18	Sierrita
					3/18/15	346.11	Static		2696.94	Sierrita
					4/16/15	347.00	Static		2696.05	Sierrita
					5/21/15	347.39	Static		2695.66	Sierrita
					6/2/15	347.75	Static		2695.30	Sierrita
					7/2/15	350.24	Static		2692.81	Sierrita
					8/25/15	351.57	Static		2691.48	Sierrita
					10/19/15	351.41	Static		2691.64	Sierrita
					11/5/15	351.30	Static		2691.75	Sierrita
					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
					10/25/16	346.80	Static		2696.25	Sierrita
					1/11/17	346.65	Static		2696.40	Sierrita
					5/3/17	348.16	Static		2694.89	Sierrita
					7/13/17	349.12	Static		2693.93	Sierrita
					10/10/17	345.85	Static		2697.20	Sierrita
					1/11/18	345.00	Static		2698.05	Sierrita
					4/17/18	343.29	Static		2699.76	Sierrita
					8/13/18	345.52	Static		2697.53	Sierrita
					11/19/18	347.80	Static		2695.25	Sierrita

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MO-2009-1 ⁴	910458	3523370.784	500531.926	2890.78	6/2/09		226.35		2664.43	Sierrita
					7/29/09		222.46		2668.32	Sierrita
					11/3/09		225.90		2664.88	Sierrita
					1/25/10		212.26		2678.52	Sierrita
					4/20/10		219.94		2670.84	Sierrita
					8/10/10		227.88		2662.90	Sierrita
					12/15/10		215.16		2675.62	Sierrita
					2/2/11		214.99		2675.79	Sierrita
					6/16/11		226.45		2664.33	Sierrita
					8/31/11		223.97		2666.81	Sierrita
					12/1/11		219.96		2670.82	Sierrita
					1/11/12		222.55		2668.23	Sierrita
					5/9/12		225.63		2665.15	Sierrita
					8/15/12		234.23		2656.55	Sierrita
					11/29/12		229.30		2661.48	Sierrita
					1/8/13		229.63		2661.15	Sierrita
					4/10/13		233.98		2656.80	Sierrita
					7/11/13		238.53		2652.25	Sierrita
					10/16/13		237.57		2653.21	Sierrita
					1/6/14		236.58		2654.20	Sierrita
					3/12/14		237.34		2653.44	Sierrita
					4/24/14		248.16		2642.62	Sierrita
					5/6/14		248.19		2642.59	Sierrita
					6/23/14		248.22		2642.56	Sierrita
					7/8/14		252.36		2638.42	Sierrita
					8/7/14		254.35		2636.43	Sierrita
					9/8/14		256.45	Static	2634.33	Sierrita
					10/29/14		258.27		2632.51	Sierrita
					11/26/14		259.64		2631.14	Sierrita
					12/2/14		248.01		2642.77	Sierrita
					1/13/15		248.22	Static	2642.56	Sierrita
					2/27/15		250.14	Static	2640.64	Sierrita
					3/26/15		251.42	Static	2639.36	Sierrita
					4/15/15		262.15	Static	2628.63	Sierrita
					5/21/15		266.63	Static	2624.15	Sierrita
					6/2/15		269.42	Static	2621.36	Sierrita
					7/7/15		268.50	Static	2622.28	Sierrita
					8/14/15		268.44	Static	2622.34	Sierrita
					10/20/15		254.32	Static	2636.46	Sierrita
					11/2/15		253.14	Static	2637.64	Sierrita
					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
					10/26/16		259.08	Static	2631.70	Sierrita
					1/12/17		261.02	Static	2629.76	Sierrita
					5/4/17		266.01	Static	2624.77	Sierrita
					7/12/17		268.46	Static	2622.32	Sierrita
					10/4/17		262.92	Static	2627.86	Sierrita
					1/18/18		254.40	Static	2636.38	Sierrita
					4/18/18		256.78	Static	2634.00	Sierrita
					8/8/18		267.90	Static	2622.88	Sierrita
					11/20/18		256.88	Static	2633.90	Sierrita
MW-2016-5A	919635	3529727.200	500430.090	2927.07	8/10/16		427.25	Static	2499.82	Clear Creek
					10/6/16		431.85	Static	2495.22	Sierrita
					1/11/17		425.00	Static	2502.07	Sierrita
					5/9/17		429.00	Static	2498.07	Sierrita
					7/11/17		433.49	Static	2493.58	Sierrita
					10/3/17		439.74	Static	2487.33	Sierrita
					1/10/18		434.47	Static	2492.60	Sierrita
					5/10/18		437.88	Static	2489.19	Sierrita
					8/13/18		442.62	Static	2484.45	Sierrita
					11/5/18		442.91	Static	2484.16	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
MW-2016-5B	919472	3529722.72	500444.100	2925.46	8/4/16		425.50	Static	2499.96	Clear Creek
					10/6/16		427.01	Static	2498.45	Sierrita
					1/11/17		422.41	Static	2503.05	Sierrita
					5/9/17		426.96	Static	2498.50	Sierrita
					5/31/17		429.00	Static	2496.46	Sierrita
					7/11/17		431.99	Static	2493.47	Sierrita
					10/3/17		435.27	Static	2490.19	Sierrita
					1/10/18		432.07	Static	2493.39	Sierrita
					5/10/18		436.01	Static	2489.45	Sierrita
					8/13/18		440.74	Static	2484.72	Sierrita
					11/5/18		440.55	Static	2484.91	Sierrita
MW-2016-6	919676	3529884.009	500056.237	2969.20	8/16/16		471.29	Static	2497.91	Clear Creek
					10/6/16		471.48	Static	2497.72	Sierrita
					1/11/17		467.79	Static	2501.41	Sierrita
					5/9/17		471.79	Static	2497.41	Sierrita
					7/10/17		476.35	Static	2492.85	Sierrita
					10/3/17		479.70	Static	2489.50	Sierrita
					1/10/18		477.48	Static	2491.72	Sierrita
					5/10/18		480.55	Static	2488.65	Sierrita
					8/13/18		485.14	Static	2484.06	Sierrita
					11/5/18		485.70	Static	2483.50	Sierrita

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/Dynamic	Groundwater Elevation (ft amsl)	Data Source
NP-2 ⁴	605898	3528517.380	500582.460	2904.75	11/6/07	355.10			2549.65	Sierrita
					1/11/08	353.67			2551.08	Sierrita
					4/17/08	352.20			2552.55	Sierrita
					7/11/08	355.10			2549.65	Sierrita
					10/9/08	356.24			2548.51	Sierrita
					2/9/09	355.00			2549.75	Sierrita
					4/24/09	354.80			2549.95	Sierrita
					9/22/09	358.90			2545.85	Sierrita
					12/31/09	358.57			2546.18	Sierrita
					2/17/10	357.20			2547.55	Sierrita
					4/22/10	356.38			2548.37	Sierrita
					8/5/10	357.93			2546.82	Sierrita
					10/25/10	360.80			2543.95	Sierrita
					1/19/11	358.68			2546.07	Sierrita
					5/3/11	358.30			2546.45	Sierrita
					7/18/11	359.72			2545.03	Sierrita
					12/5/11	360.27			2544.48	Sierrita
					3/21/12	358.10			2546.65	Sierrita
					6/18/12	359.28			2545.47	Sierrita
					8/15/12	360.45			2544.30	Sierrita
					11/29/12	360.79			2543.96	Sierrita
					2/20/13	356.92			2547.83	Sierrita
					6/17/13	358.19			2546.56	Sierrita
					8/27/13	360.56			2544.19	Sierrita
					10/30/13	362.56			2542.19	Sierrita
					1/7/14	361.24			2543.51	Sierrita
					3/12/14	363.18			2541.57	Sierrita
					4/23/14	364.29			2540.46	Sierrita
					5/14/14	364.22			2540.53	Sierrita
					6/23/14	364.24			2540.51	Sierrita
					7/1/14	368.67			2536.08	Sierrita
					8/8/14	370.36			2534.39	Sierrita
					9/9/14	372.75	Static		2532.00	Sierrita
					10/13/14	374.58			2530.17	Sierrita
					11/26/14	375.76			2528.99	Sierrita
					12/17/14	376.89	Static		2527.86	Sierrita
					1/14/15	377.12	Static		2527.63	Sierrita
					2/27/15	377.25	Static		2527.50	Sierrita
					3/26/15	377.65	Static		2527.10	Sierrita
					4/28/15	UTM			NA	Sierrita
					5/21/15	UTM			NA	Sierrita
					6/2/15	UTM			NA	Sierrita
					7/23/15	UTM			NA	Sierrita
					8/25/15	UTM			NA	Sierrita
					11/2/15	UTM			NA	Sierrita
					1/14/16	UTM			NA	Sierrita
					2/11/16	UTM			NA	Sierrita
					3/11/16	UTM			NA	Sierrita
					6/8/16	UTM			NA	Sierrita
					8/23/16	392.03	Static		2512.72	Sierrita
					12/5/16	394.30	Static		2510.45	Sierrita
					1/16/17	393.62	Static		2511.13	Sierrita
					5/23/17	393.62	Static		2511.13	Sierrita
					8/8/17	399.79	Static		2504.96	Sierrita
					10/26/17	403.25	Static		2501.50	Sierrita
					4/4/18	404.42	Static		2500.33	Sierrita
					9/5/18	408.40	Static		2496.35	Sierrita
					12/5/18	408.74	Static		2496.01	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
PS-1	220861	3529110.26	499164.17	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		NA	Sierrita	
					2/11/16	541.90	Dynamic		BW	
					3/4/16	542.22	Dynamic		BW	
					4/8/16	542.50	Dynamic	2498.17	Sierrita	
					10/5/16	547.81	Dynamic	2492.86	BW	
					4/18/17	556.33	Dynamic	2484.34	Sierrita	
					7/20/17	561.70	Dynamic	2478.97	BW	
					10/25/17	565.04	Dynamic	2475.63	BW	
					5/22/18	569.72	Dynamic	2470.95	BW	
					9/25/18	574.12	Dynamic	2466.55	BW	
					11/26/18	573.70	Dynamic	2466.97	BW	

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Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
PS-2	220862	3529357.16	499319.31	3027.365	6/5/12	486.97		Static		BW, 2015a
					6/5/12	509.07		Dynamic		BW, 2015a
					1/15/14		507.18	Dynamic	2520.18	Sierrita
					1/15/14	507.18		Dynamic		BW, 2015a
					1/22/14		494.54	Dynamic	2532.82	Sierrita
					1/28/14	507.91		Dynamic		BW, 2015a
					2/5/14	506.02		Dynamic		BW, 2015a
					3/13/14		510.78	Dynamic	2516.58	Sierrita
					5/8/14		514.76	Dynamic	2512.60	Sierrita
					5/30/14	514.76		Dynamic		BW, 2015a
					6/5/14		514.95	Dynamic	2512.41	Sierrita
					7/6/14		516.80	Dynamic	2510.56	Sierrita
					7/6/14	516.59		Dynamic		BW, 2015a
					7/31/14		518.30	Dynamic	2509.06	Sierrita
					7/31/14	518.30		Dynamic		BW, 2015a
					8/27/14		519.40	Dynamic	2507.96	Sierrita
					8/27/14	519.40		Dynamic		BW, 2015a
					10/1/14		507.20	Static	2520.16	Sierrita
					10/1/14	506.99		Static		BW, 2015a
					11/4/14		523.35	Dynamic	2504.01	Sierrita
					11/4/14	523.14		Dynamic		BW, 2015a
					12/2/14		523.80	Dynamic	2503.56	Sierrita
					12/2/14	523.59		Dynamic		BW, 2015a
					1/4/15		524.60	Dynamic	2502.76	Sierrita
					2/4/15		524.50	Dynamic	2502.86	Sierrita
					3/3/15		524.70	Dynamic	2502.66	Sierrita
					4/9/15		525.20	Dynamic	2502.16	Sierrita
					5/2/15		526.10	Dynamic	2501.26	Sierrita
					6/9/15		527.00	Dynamic	2500.36	Sierrita
					7/6/15		528.20	Dynamic	2499.16	Sierrita
					8/18/15		529.80	Dynamic	2497.56	Sierrita
					10/7/15		531.75	Dynamic	2495.61	Sierrita
					11/4/15		531.95	Dynamic	2495.41	Sierrita
					12/9/15		532.15	Dynamic	2495.21	Sierrita
					1/12/16		531.25	Dynamic	2496.11	Sierrita
					2/11/16		532.30	Dynamic	2495.06	BW
					3/4/16		532.50	Dynamic	2494.86	BW
					4/8/16		532.70	Dynamic	2494.66	Sierrita
					10/5/16		538.80	Dynamic	2488.56	BW
					4/18/17		548.31	Dynamic	2479.05	Sierrita
					7/20/17		553.30	Dynamic	2474.06	BW
					10/25/17		556.60	Dynamic	2470.76	BW
					5/22/18		555.10	Dynamic	2472.26	BW
					9/25/18		558.45	Dynamic	2468.91	BW
					11/26/18		544.60	Static	2482.76	BW

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
PS-3	220863	3529350.24	499571.46	3006.290	5/14/12	466.60		Static		BW, 2015a
					5/14/12	490.30		Dynamic		BW, 2015a
					1/15/14		488.84	Dynamic	2517.45	Sierrita
					1/15/14	488.84		Dynamic		BW, 2015a
					1/22/14		488.23	Dynamic	2518.06	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	2514.43	Sierrita
					5/8/14		495.82	Dynamic	2510.47	Sierrita
					5/30/14	495.82		Dynamic		BW, 2015a
					6/5/14		495.90	Dynamic	2510.39	Sierrita
					6/5/14	495.90		Dynamic		BW, 2015a
					7/6/14		497.70	Dynamic	2508.59	Sierrita
					7/6/14	497.47		Dynamic		BW, 2015a
					7/31/14		498.90	Dynamic	2507.39	Sierrita
					7/31/14	498.90		Dynamic		BW, 2015a
					8/27/14		500.25	Dynamic	2506.04	Sierrita
					8/27/14	500.25		Dynamic		BW, 2015a
					10/1/14		486.45	Static	2519.84	Sierrita
					10/1/14	486.22		Static		BW, 2015a
					11/4/14		503.75	Dynamic	2502.54	Sierrita
					11/4/14	503.52		Dynamic		BW, 2015a
					12/2/14		504.20	Dynamic	2502.09	Sierrita
					12/2/14	503.97		Dynamic		BW, 2015a
					1/4/15		504.55	Dynamic	2501.74	Sierrita
					2/4/15		504.45	Dynamic	2501.84	Sierrita
					3/3/15		504.75	Dynamic	2501.54	Sierrita
					4/9/15		505.50	Dynamic	2500.79	Sierrita
					5/2/15		506.35	Dynamic	2499.94	Sierrita
					6/9/15		507.50	Dynamic	2498.79	Sierrita
					7/6/15		508.92	Dynamic	2497.37	Sierrita
					8/18/15		510.50	Dynamic	2495.79	Sierrita
					10/7/15		512.40	Dynamic	2493.89	Sierrita
					11/4/15		512.55	Dynamic	2493.74	Sierrita
					12/9/15		512.75	Dynamic	2493.54	Sierrita
					1/12/16		511.65	Dynamic	2494.64	Sierrita
					2/11/16		512.55	Dynamic	2493.74	BW
					3/4/16		512.97	Dynamic	2493.32	BW
					4/8/16		515.20	Dynamic	2491.09	Sierrita
					10/5/16		519.45	Dynamic	2486.84	BW
					4/18/17		533.49	Dynamic	2472.80	Sierrita
					7/20/17		538.05	Dynamic	2468.24	BW
					10/25/17		541.40	Dynamic	2464.89	BW
					5/22/18		516.82	Static	2489.47	BW
					9/25/18		546.05	Dynamic	2460.24	BW
					11/26/18		544.30	Dynamic	2461.99	BW

APPENDIX C
Water Elevation Data

Well Name	ADWR 55 Registry Number	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-4	220864	3528837.60	499153.27	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		NA	Sierrita
					2/11/16		543.90	Dynamic	2501.84	BW
					3/4/16		544.50	Dynamic	2501.24	BW
					4/8/16		544.90	Dynamic	2500.84	Sierrita
					10/5/16		551.08	Dynamic	2494.66	BW
					4/18/17		543.05	Static	2502.69	Sierrita
					7/20/17		561.00	Dynamic	2484.74	BW
					10/25/17		563.80	Dynamic	2481.94	BW
					5/22/18		552.30	Static	2493.44	BW
					9/25/18		568.70	Dynamic	2477.04	BW
					11/26/18		568.80	Dynamic	2476.94	BW

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Water Elevation Data

Well Name	ADWR 55 Registry Number	Universal Transverse Mercator, Northing (m) ¹	Universal Transverse Mercator, Easting (m) ¹	Measuring Point Elevation (ft amsl)	Date	Depth to Water (ft bsl)	Depth to Water (ft bmp)	Static/ Dynamic	Groundwater Elevation (ft amsl)	Data Source
PZ-7	561870	3526357.485	492533.171	3549.17	11/16/06		139.55		3409.62	Sierrita
					1/12/07		139.50		3409.67	Sierrita
					4/9/07		139.65		3409.52	Sierrita
					7/24/07		139.76		3409.41	Sierrita
					10/16/07		139.49		3409.68	Sierrita
					1/7/08		139.25		3409.92	Sierrita
					4/28/08		139.59		3409.58	Sierrita
					7/11/08		139.71		3409.46	Sierrita
					10/14/08		139.73		3409.44	Sierrita
					2/9/09		139.79		3409.38	Sierrita
					4/6/09		139.80		3409.37	Sierrita
					4/23/10		140.22		3408.95	Sierrita
					5/18/11		140.62		3408.55	Sierrita
					6/6/12		136.67		3412.50	Sierrita
					6/10/13		136.91		3412.26	Sierrita
					4/8/14		135.75		3413.42	Sierrita
					4/21/15		136.49	Static	3412.68	Sierrita
					11/18/15		138.20	Static	3410.97	Sierrita
					4/26/16		138.28	Static	3410.89	Sierrita
					12/9/16		138.70	Static	3410.47	Sierrita
					5/9/17		138.81	Static	3410.36	Sierrita
					11/13/17		139.55	Static	3409.62	Sierrita
					5/2/18		139.86	Static	3409.31	Sierrita
					11/14/18		140.33	Static	3408.84	Sierrita
PZ-8	561866	3524196.243	492972.681	3480.36	11/14/06		206.30		3274.06	Sierrita
					1/10/07		207.42		3272.94	Sierrita
					4/17/07		198.52		3281.84	Sierrita
					7/12/07		209.46		3270.90	Sierrita
					10/5/07		205.30		3275.06	Sierrita
					1/3/08		212.94		3267.42	Sierrita
					4/8/08		217.43		3262.93	Sierrita
					7/1/08		221.70		3258.66	Sierrita
					10/8/08		222.49		3257.87	Sierrita
					1/8/09		223.63		3256.73	Sierrita
					4/8/09		224.72		3255.64	Sierrita
					4/20/10		227.87		3252.49	Sierrita
					4/19/11		228.73		3251.63	Sierrita
					4/25/12		229.66		3250.70	Sierrita
					6/10/13		230.86		3249.50	Sierrita
					4/23/14		232.32		3248.04	Sierrita
					4/24/14		232.59		3247.77	Sierrita
					4/14/15		234.11	Static	3246.25	Sierrita
					11/18/15		235.22	Static	3245.14	Sierrita
					4/26/16		233.24	Static	3247.12	Sierrita
					12/9/16		234.38	Static	3245.98	Sierrita
					5/9/17		232.76	Static	3247.60	Sierrita
					11/14/17		233.42	Static	3246.94	Sierrita
					5/2/18		233.68	Static	3246.68	Sierrita
					5/3/18		233.75	Static	3246.61	Sierrita
					11/15/18		231.92	Static	3248.44	Sierrita
S-1	623111	3519084.973	499736.647	2920	6/19/15		167.21	Static	2752.79	Sierrita
					11/18/15		169.40	Static	2750.60	Sierrita
					6/15/16		161.51	Static	2758.49	Sierrita
					12/2/16		172.66	Static	2747.34	Sierrita
					6/8/17		163.70	Static	2756.30	Sierrita
					11/16/17		157.50	Static	2762.50	Sierrita
					12/11/18		222.90	Dynamic	2697.10	Sierrita
ST-6 (POE-006)	608530	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	Sierrita
					6/15/16		359.59	Static ²	2496.29	Sierrita
					12/21/16		355.76	Static ²	2500.12	Sierrita
					6/8/17		366.60	Static ²	2489.28	Sierrita
					11/16/17		367.00	Static ²	2488.88	Sierrita
					6/11/18		374.22	Static ²	2481.66	Sierrita
					12/11/18		372.00	Static ²	2483.88	Sierrita

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Water Elevation Data

Well Name	ADWR 55 Registry Number	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
TMM-1	616156	3529736.231	500018.323	2967.08	6/18/07		432.50		2534.58	Sierrita
					6/19/07		432.00		2535.08	Sierrita
					10/4/07		437.58		2529.50	Sierrita
					1/10/08		435.75		2531.33	Sierrita
					4/18/08		433.30		2533.78	Sierrita
					7/9/08		437.37		2529.71	Sierrita
					10/9/08		439.80		2527.28	Sierrita
					2/4/09		436.62		2530.46	Sierrita
					4/21/09		433.35		2533.73	Sierrita
					10/14/09		444.00		2523.08	Sierrita
					4/20/10		436.99		2530.09	Sierrita
					10/6/10		442.98		2524.10	Sierrita
					4/21/11		437.13		2529.95	Sierrita
					12/21/11		435.50		2531.58	Sierrita
					5/15/12		438.57		2528.51	Sierrita
					11/23/12		443.30		2523.78	Sierrita
					6/19/13		439.14		2527.94	Sierrita
					10/29/13		443.13		2523.95	Sierrita
					4/23/14		442.13		2524.95	Sierrita
					10/2/14	451.94	Static	2515.14	Sierrita	
					4/28/15	UTM		NA	Sierrita	
					12/2/15	UTM		NA	Sierrita	
					6/8/16	UTM		NA	Sierrita	
1225	634394	3530604.785	499665.900	2997.93	6/16/15	492.97	Static	2504.96	Sierrita	
					11/17/15	496.96	Static	2500.97	Sierrita	
					6/15/16	497.61	Static	2500.32	Sierrita	
					12/9/16	499.36	Static	2498.57	Sierrita	
					5/17/17	502.25	Static	2495.68	Sierrita	
					11/13/17	510.35	Static	2487.58	Sierrita	
					6/8/18	512.32	Static	2485.61	Sierrita	
					11/14/18	516.31	Static	2481.62	Sierrita	
1350	NR	3528649.387	499296.433	3033.25	7/12/07	474.29		2558.96	Sierrita	
					11/8/07	477.30		2555.95	Sierrita	
					1/9/08	477.00		2556.25	Sierrita	
					4/14/08	475.50		2557.75	Sierrita	
					8/7/08	477.88		2555.37	Sierrita	
					11/5/08	479.21		2554.04	Sierrita	
					1/19/09	477.33		2555.92	Sierrita	
					6/29/09	479.57		2553.68	Sierrita	
					5/28/10	478.78		2554.47	Sierrita	
					5/9/11	480.42		2552.83	Sierrita	
					6/29/12	479.57		2553.68	Sierrita	
					5/23/13	481.16		2552.09	Sierrita	
					4/29/14	Obstructed		NA	Sierrita	
					5/22/14	Obstructed		NA	Sierrita	
					5/28/14	494.95		2538.30	Sierrita	
					6/16/15	511.79	Static	2521.46	Sierrita	
					11/17/15	517.00	Static	2516.25	Sierrita	
					6/15/16	520.26	Static	2512.99	Sierrita	
					12/9/16	522.40	Static	2510.85	Sierrita	
					5/17/17	527.00	Static	2506.25	Sierrita	
					11/13/17	534.80	Static	2498.45	Sierrita	
					6/8/18	537.10	Static	2496.15	Sierrita	
					11/14/18	540.24	Static	2493.01	Sierrita	
1759	634393	3531506.317	499666.694	2989.54	6/16/15	484.12	Static	2505.42	Sierrita	
					11/17/15	487.52	Static	2502.02	Sierrita	
					6/15/16	488.00	Static	2501.54	Sierrita	
					12/9/16	490.26	Static	2499.28	Sierrita	
					5/17/17	492.00	Static	2497.54	Sierrita	
					11/9/17	506.50	Static	2483.04	Sierrita	
					6/8/18	502.11	Static	2487.43	Sierrita	
					11/14/18	506.00	Static	2483.54	Sierrita	

APPENDIX C

Water Elevation Data

Well Name	ADWR 55 Registry Number	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
2125	514015	3529511.399	497813.090	3253.98	6/16/15		736.98	Static	2517.00	Sierrita
					11/17/15		741.29	Static	2512.69	Sierrita
					6/15/16		UTM		NA	Sierrita
					11/22/16		749.61	Static	2504.37	Sierrita
					6/20/17		752.58	Static	2501.40	Sierrita
					12/13/17		759.66	Static	2494.32	Sierrita
					6/7/18		759.90	Static	2494.08	Sierrita
					11/14/18		760.80	Static	2493.18	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

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

m = meters

ND = No elevation data

NA = Not applicable

NR = No Record

Sierrita = Freeport-McMoRan Sierrita, Inc.

UTM = Unable to measure; designation includes physical limitations, not desaturation

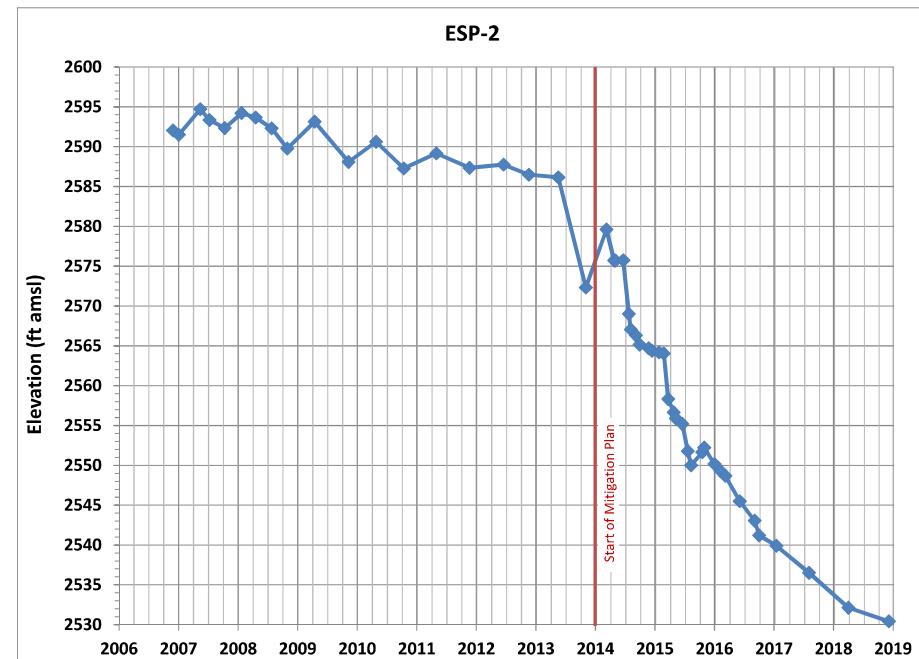
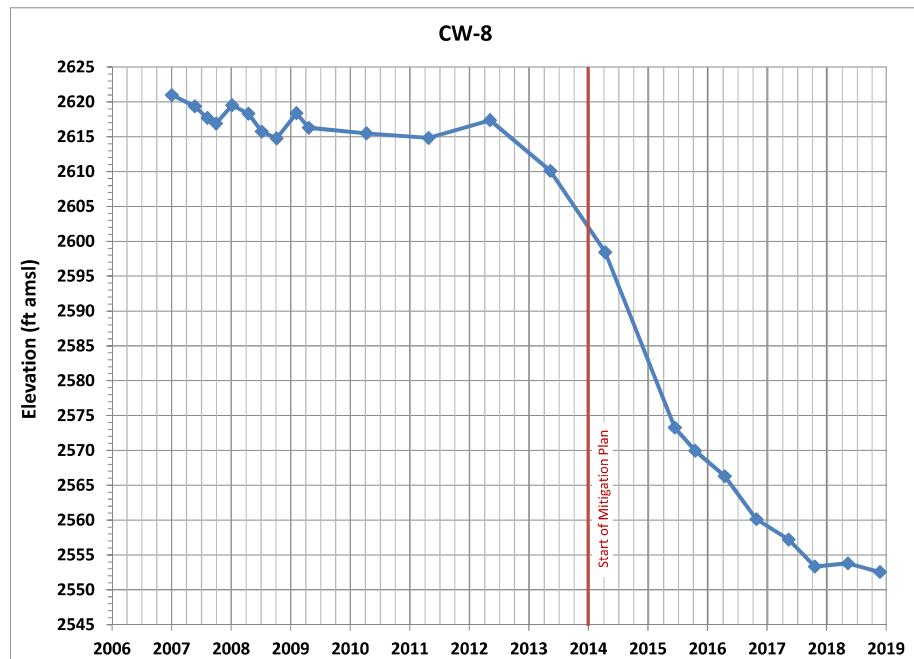
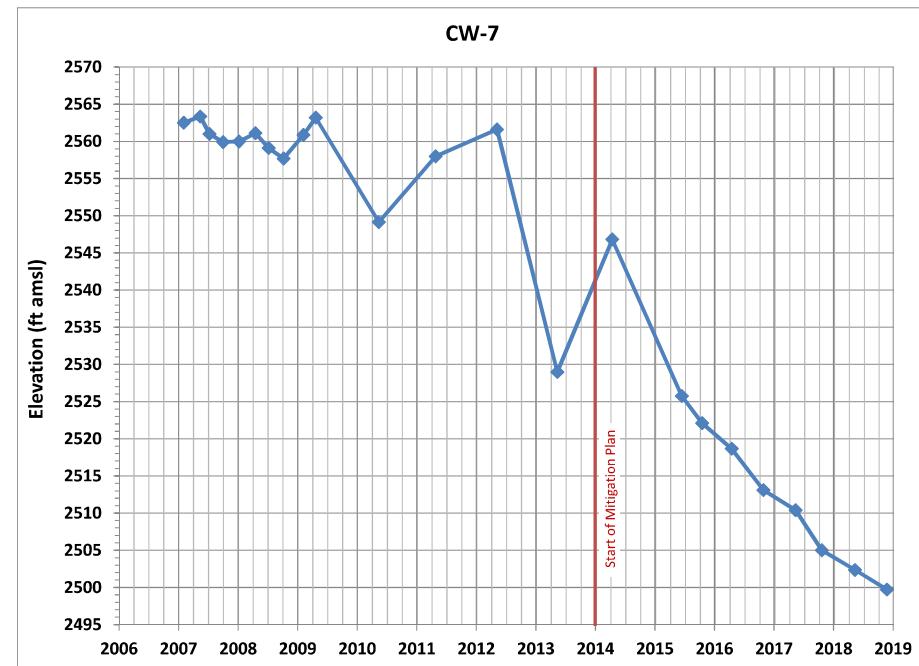
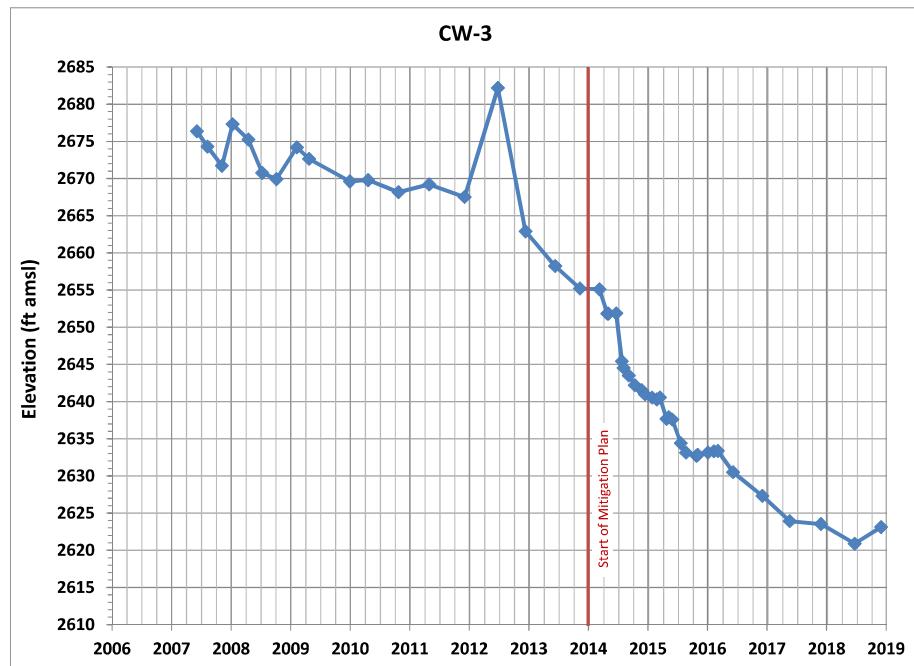
REFERENCES

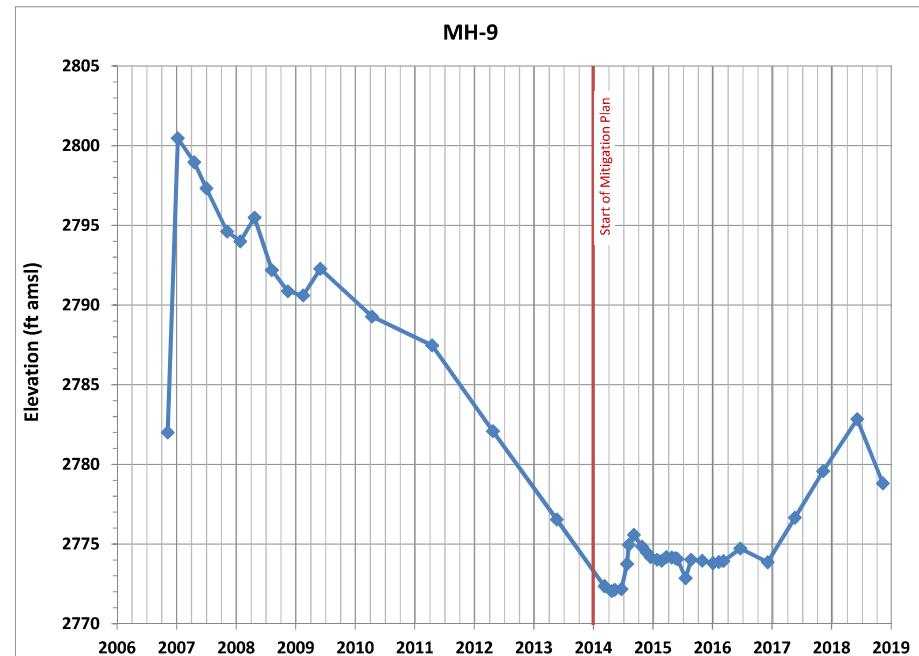
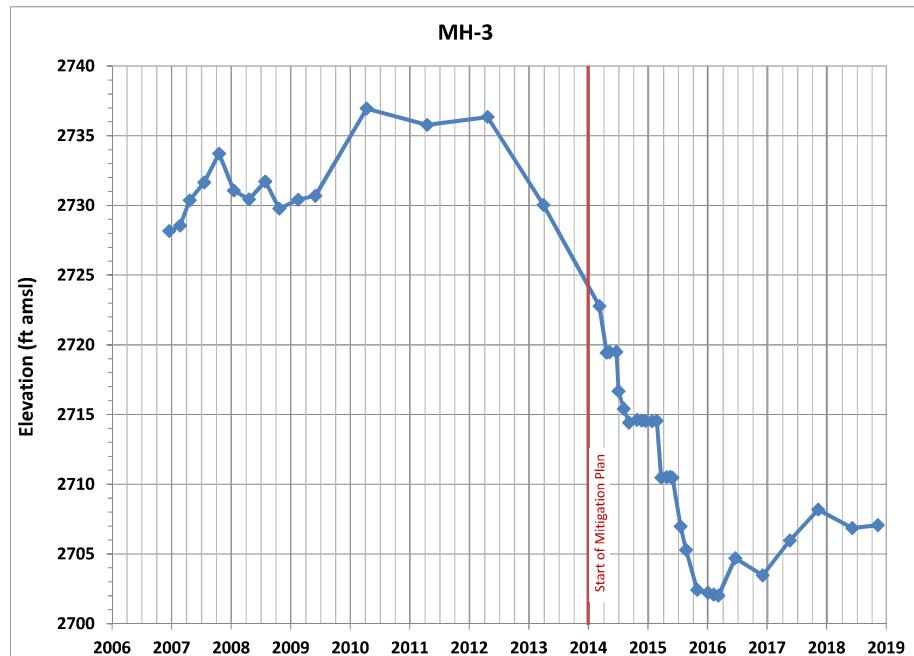
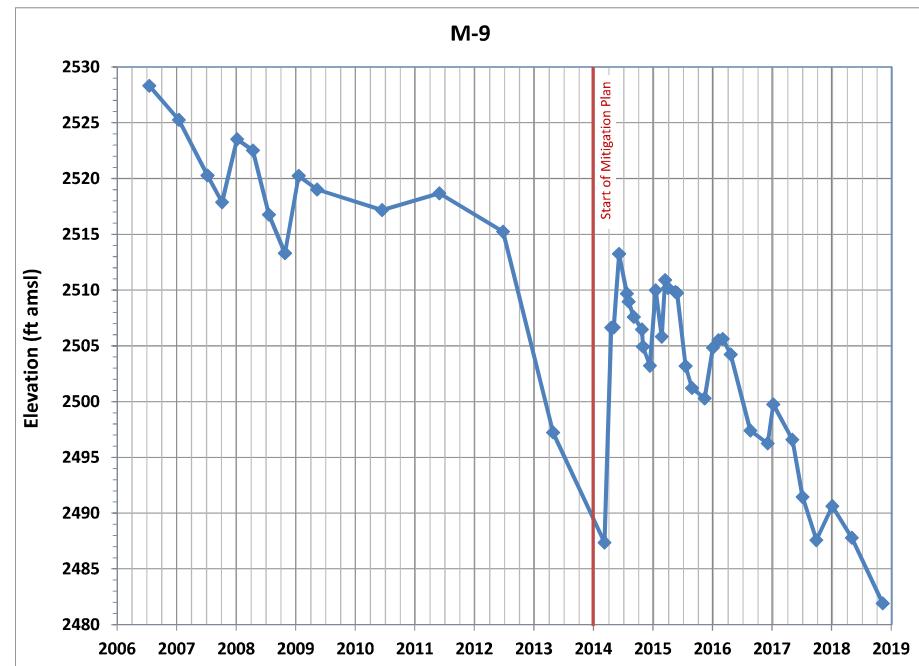
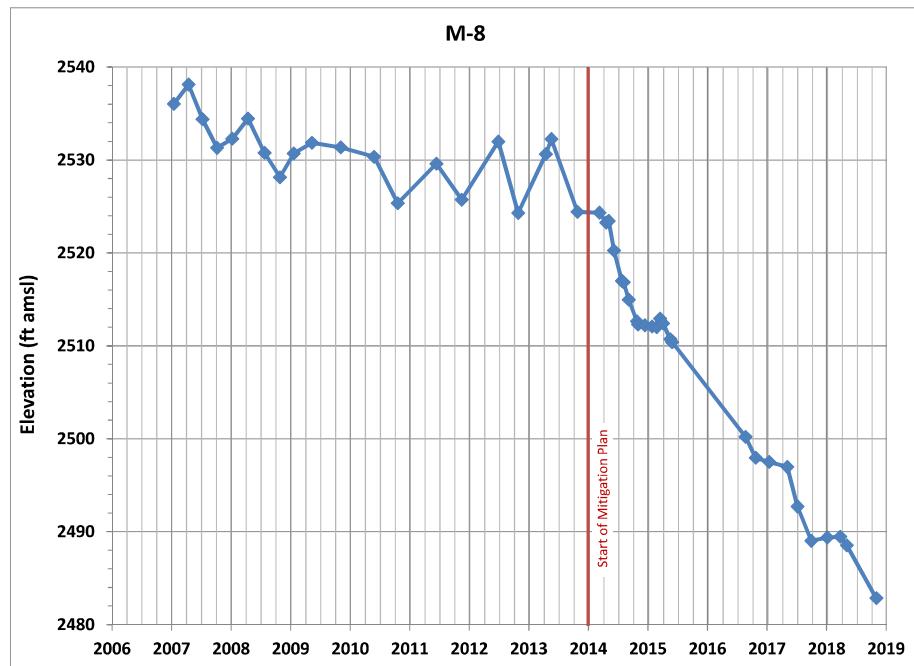
BasinWells Associates. 2015a. Email Correspondence from Buck Schmidt, BasinWells Associates, to James Norris, Clear Creek Associates, Re: BasinWells Associates PLLC/FMI Sierrita Groundwater Sulfate Mitigation Action Well Field Measurements – October 2014. January 22, 2015.

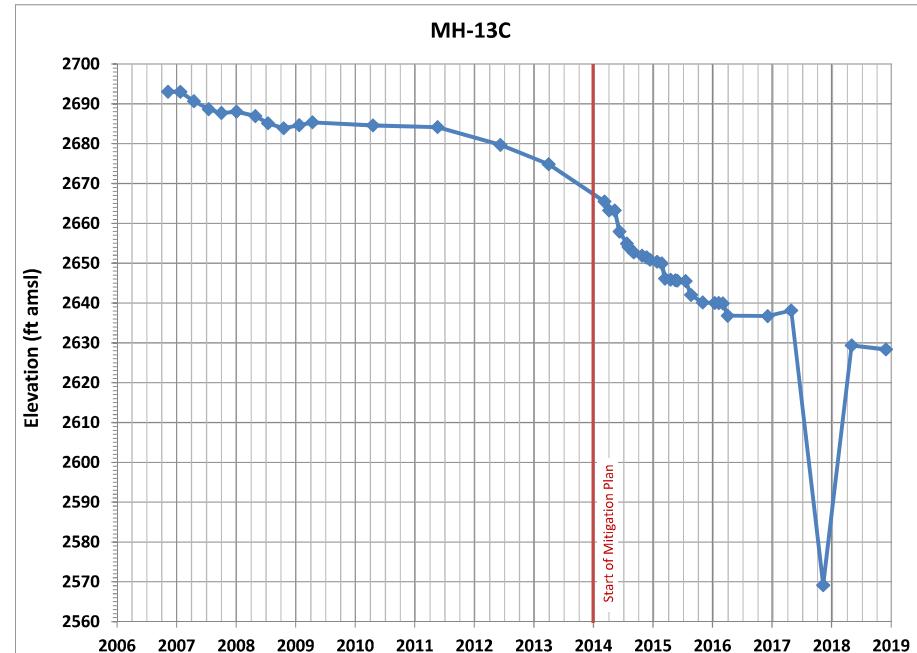
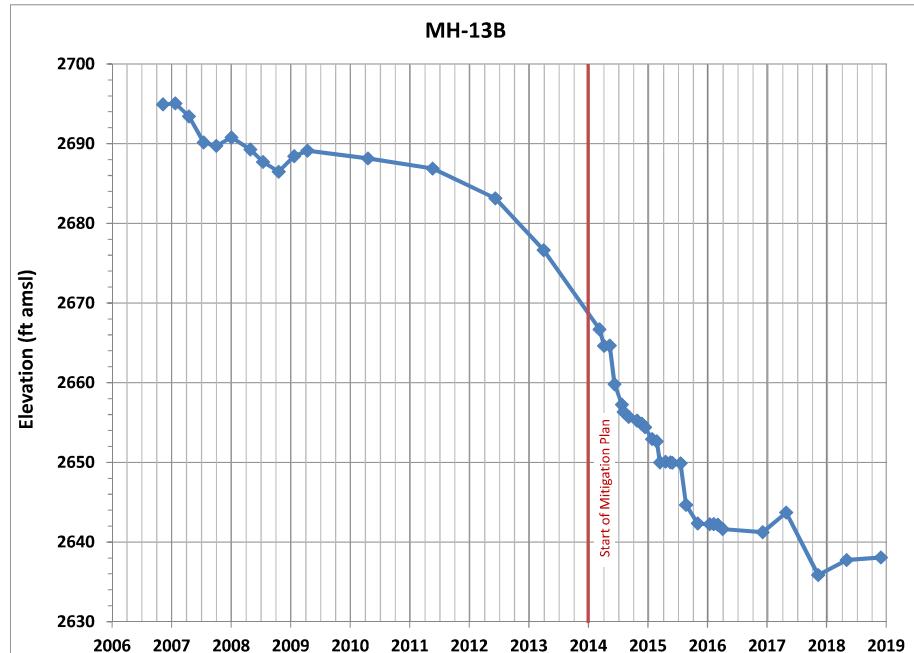
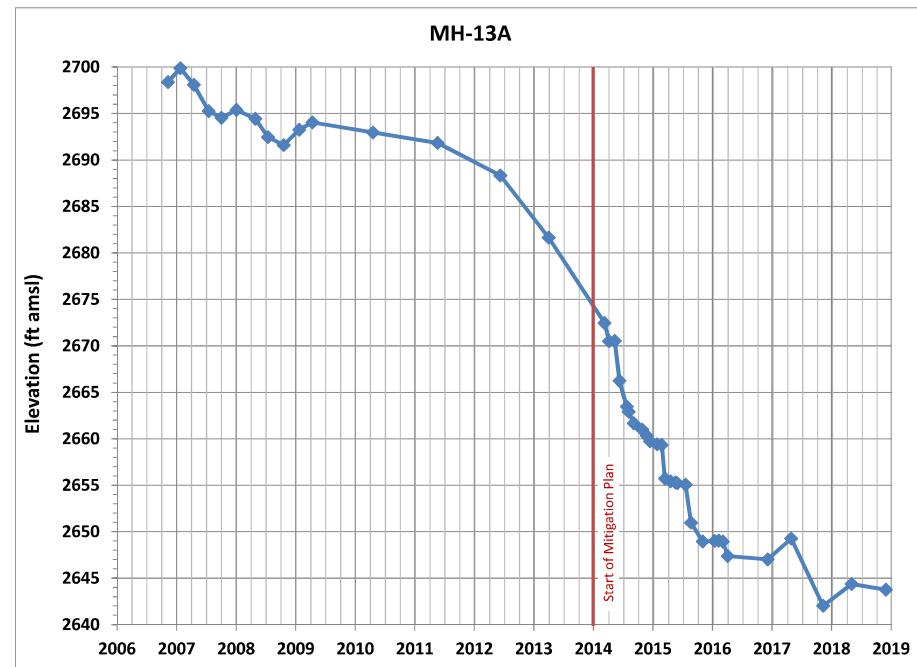
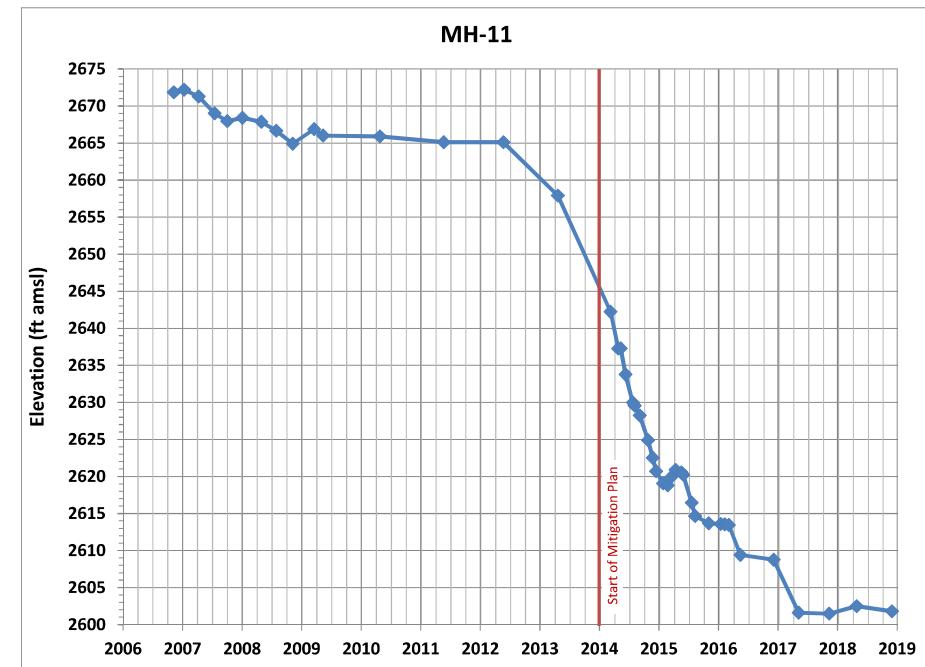
BasinWells Associates. 2015b. Email Correspondence from Buck Schmidt, BasinWells Associates, to James Norris, Clear Creek Associates, Re: BasinWells Associates PLLC/FMI Sierrita Groundwater Sulfate Mitigation Action Well Field Measurements – October 2014. February 10, 2015.

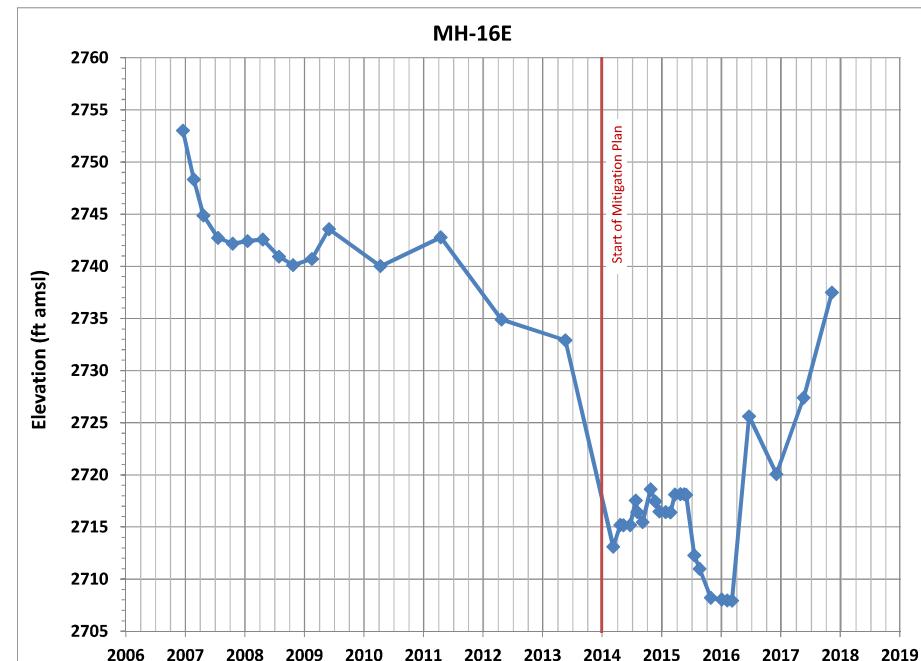
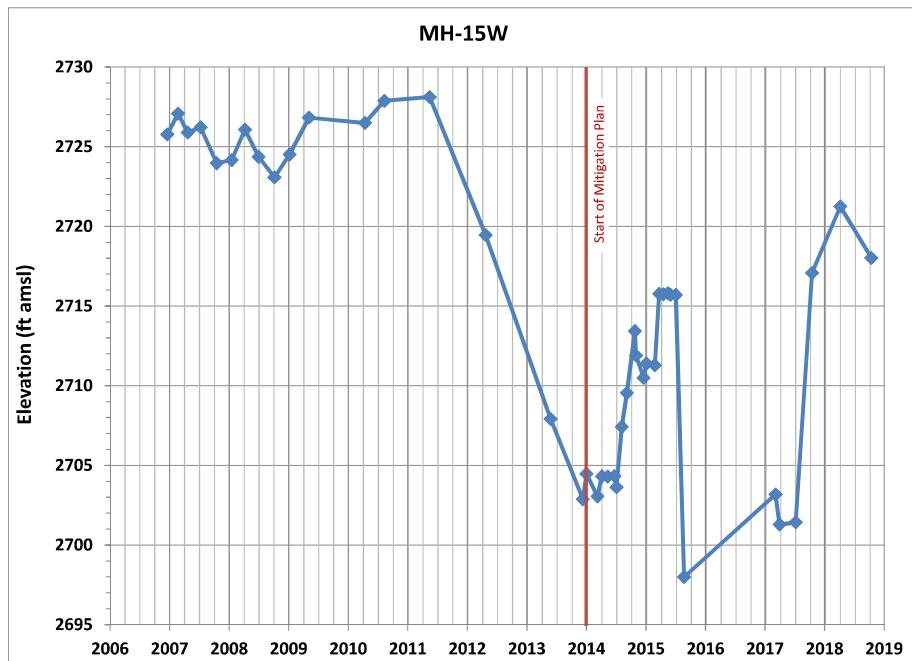
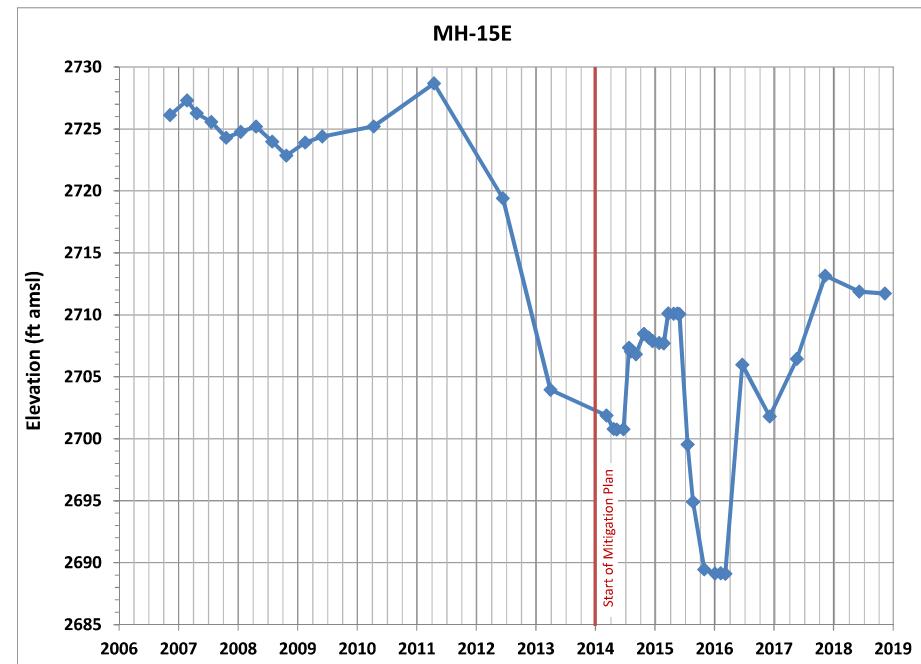
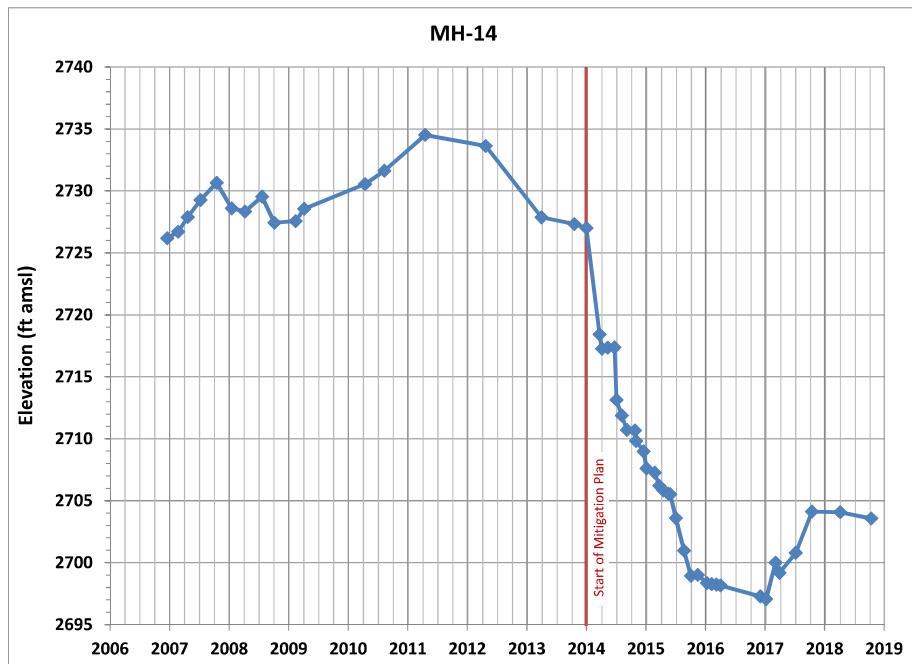
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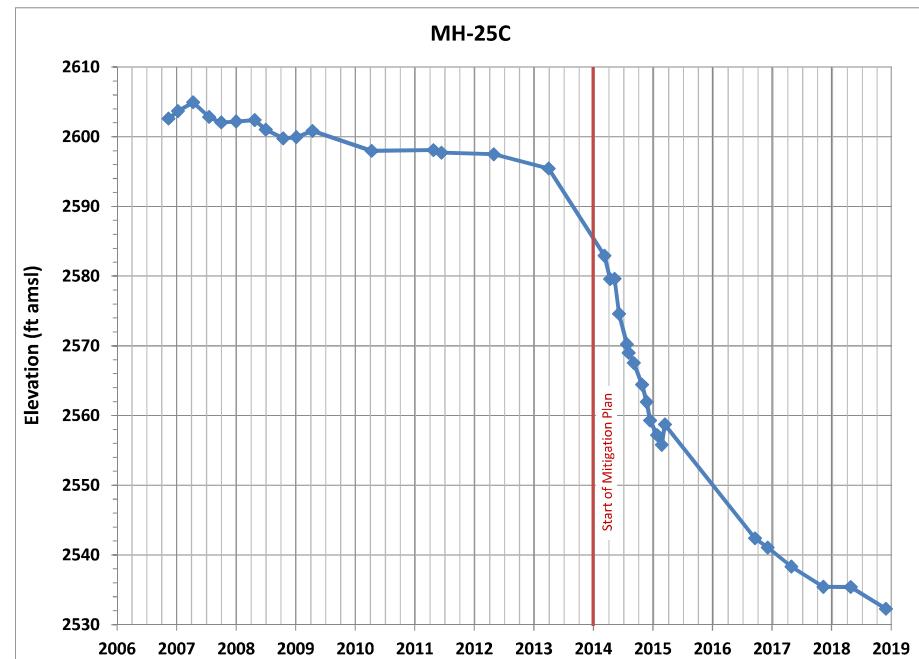
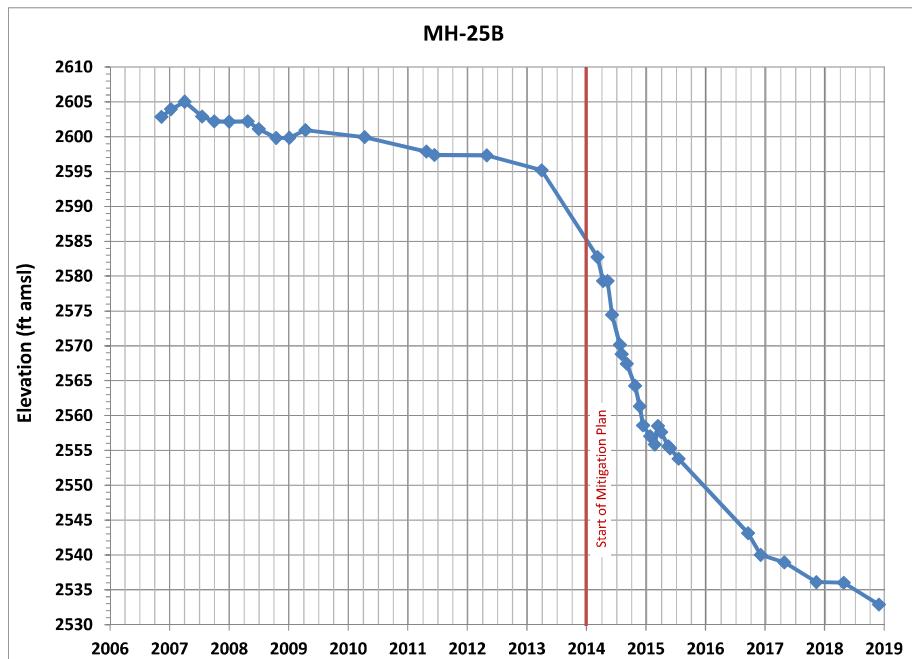
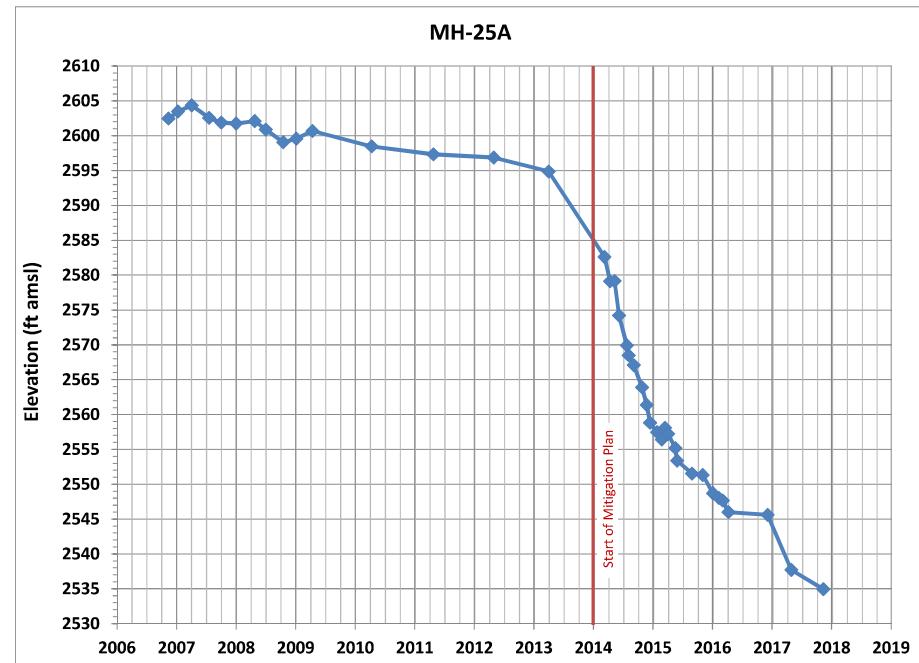
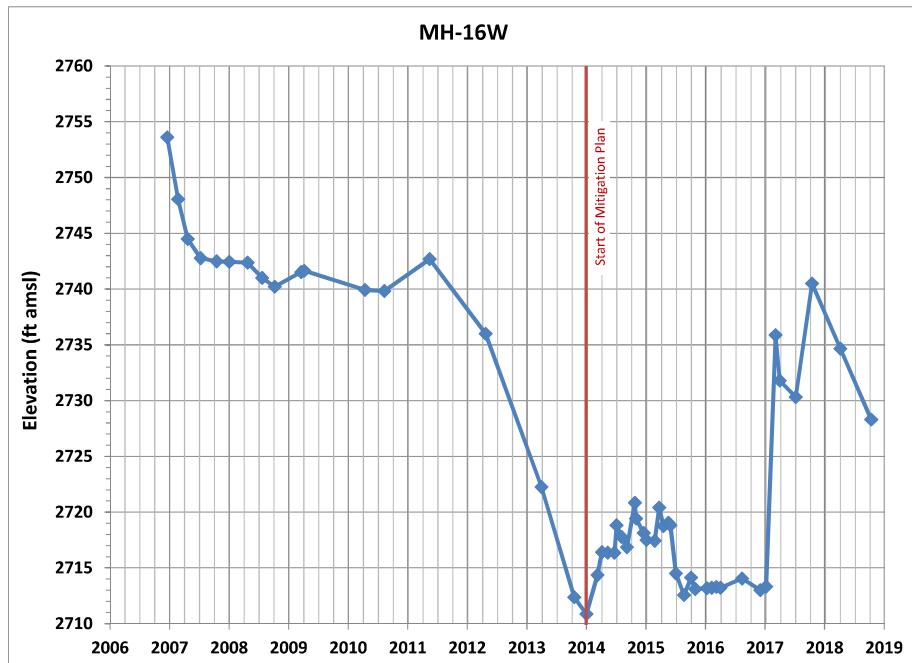
APPENDIX D
HYDROGRAPHS (ALPHABETIC BY WELL NAME)

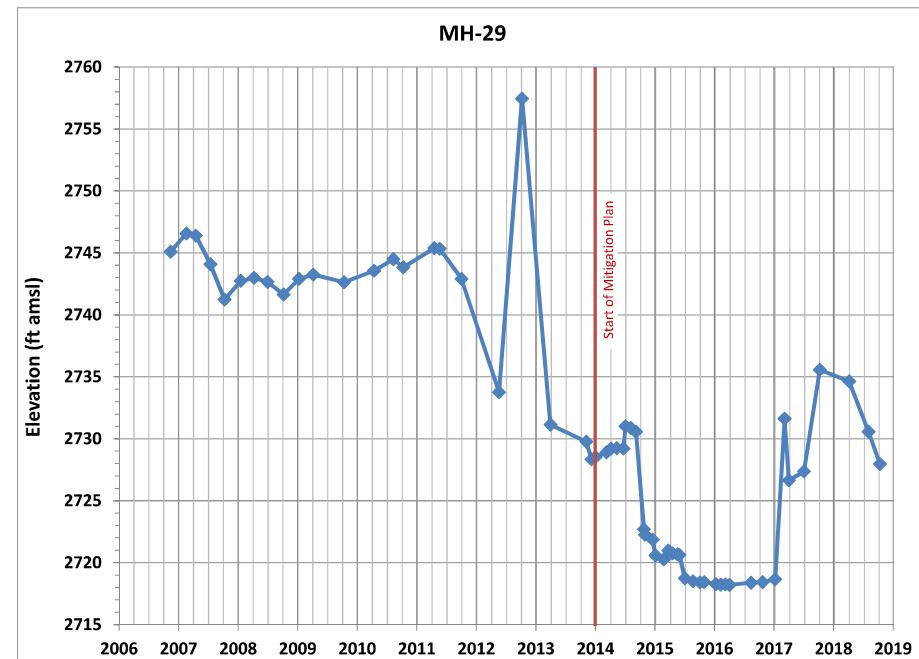
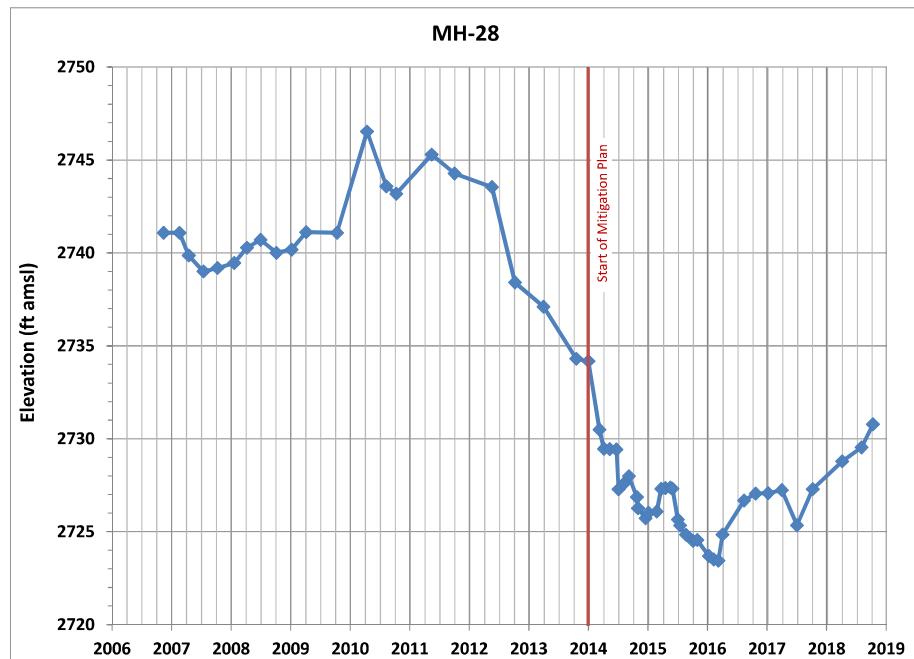
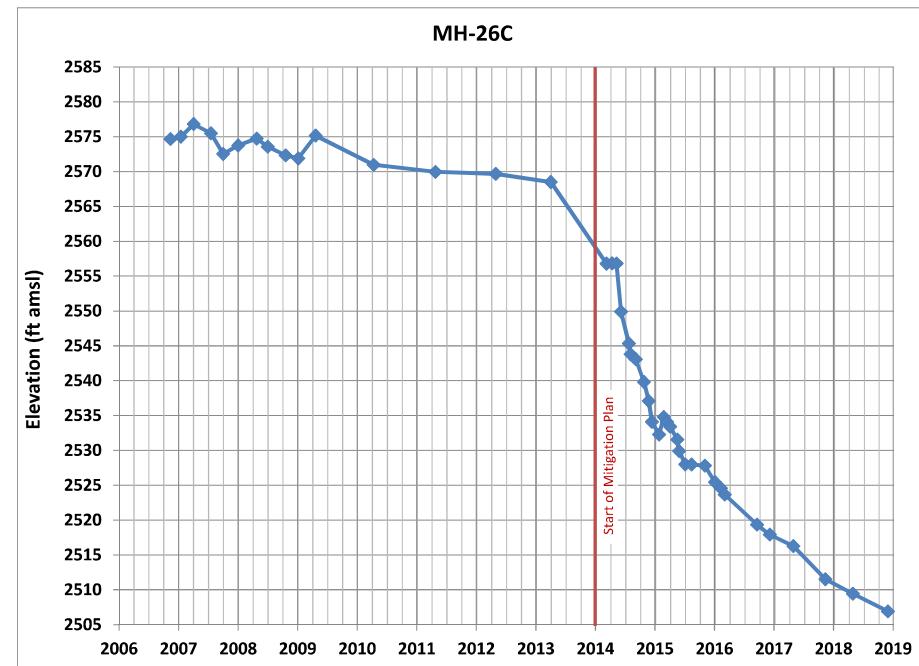
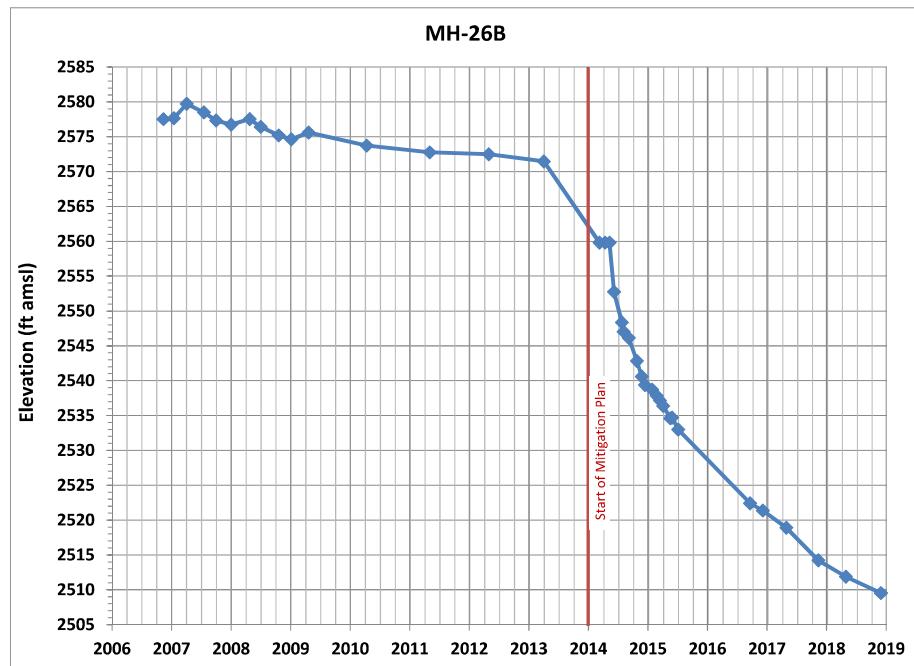


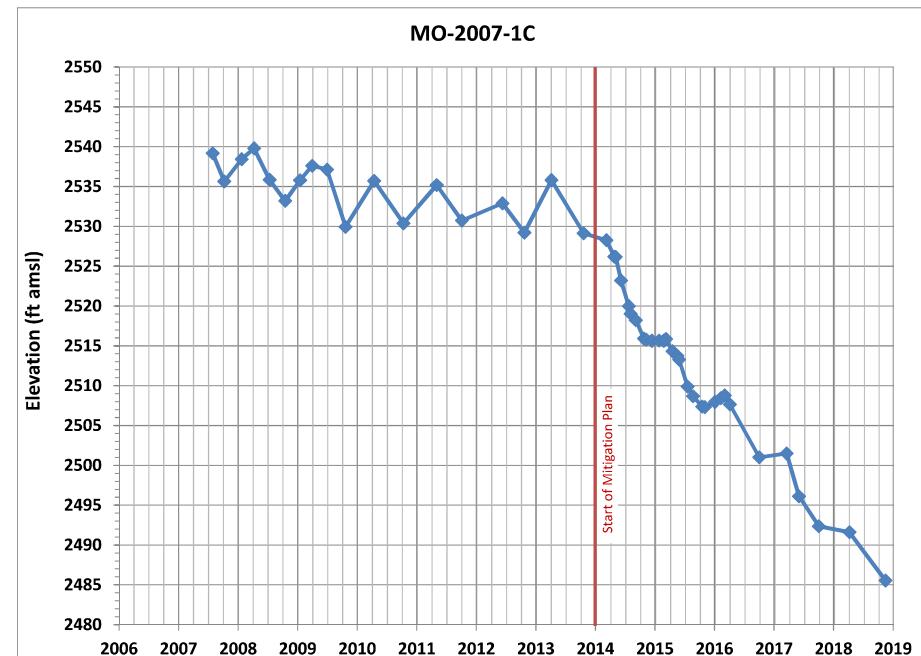
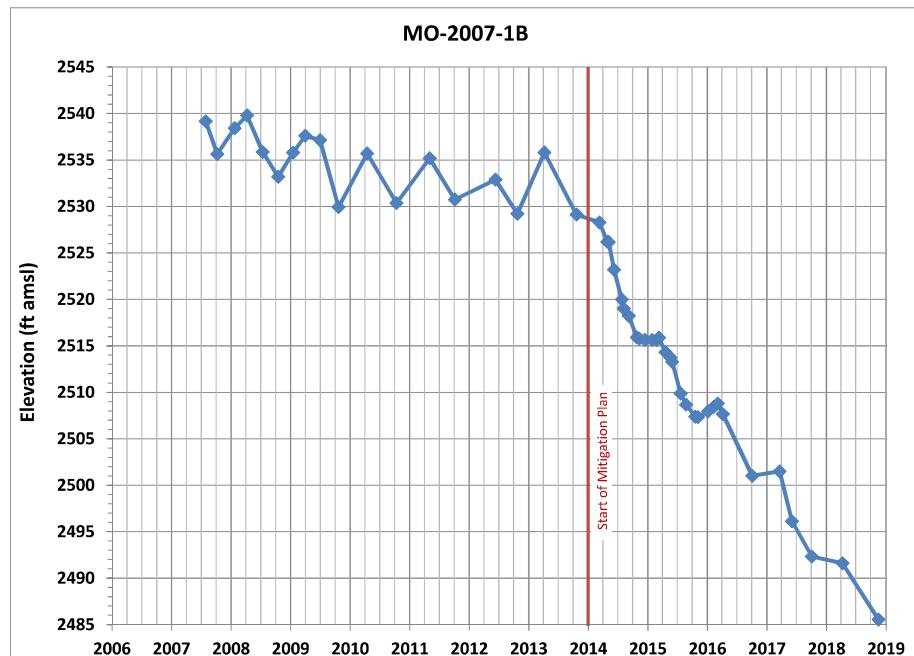
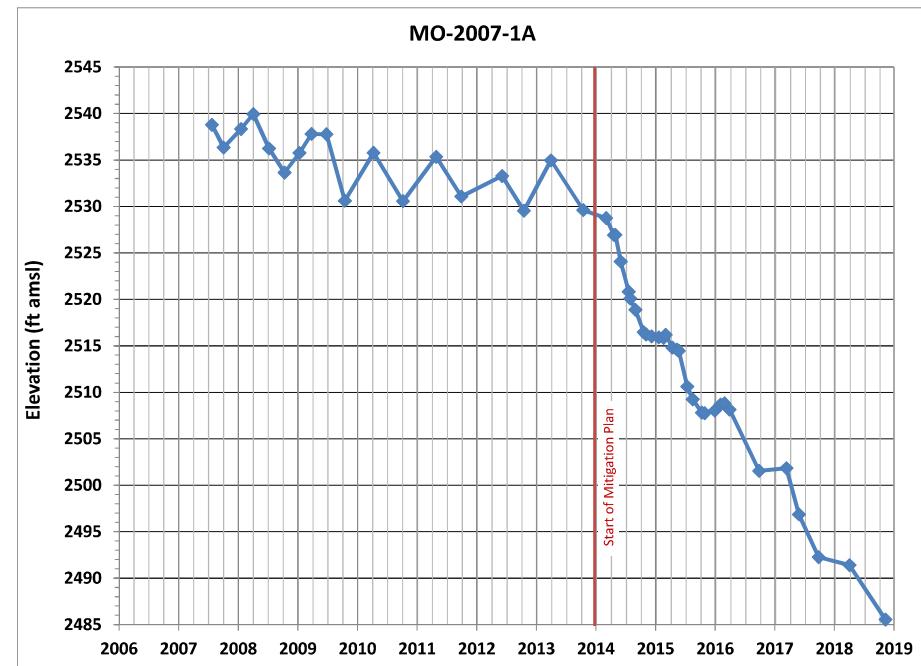
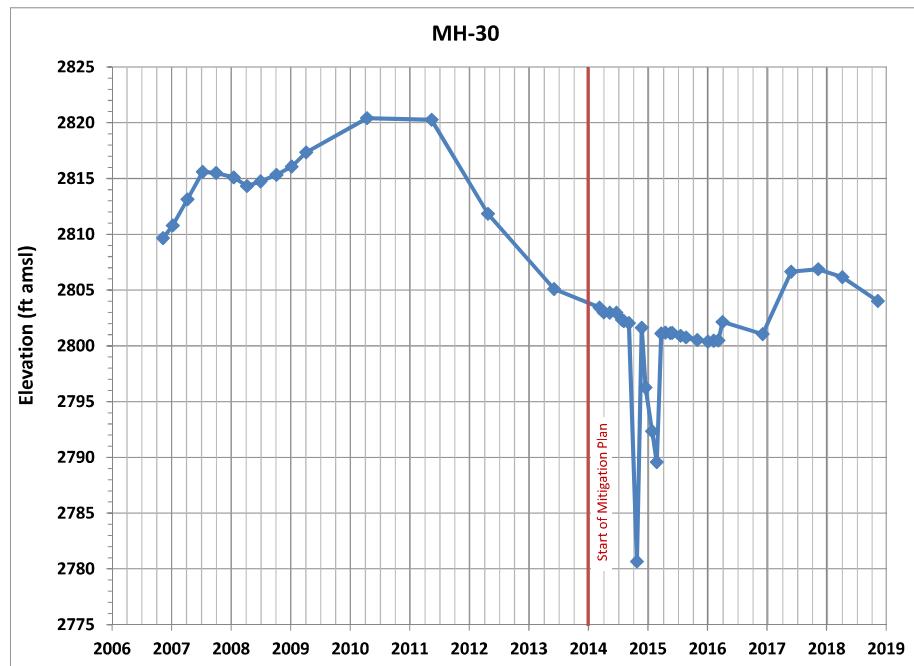


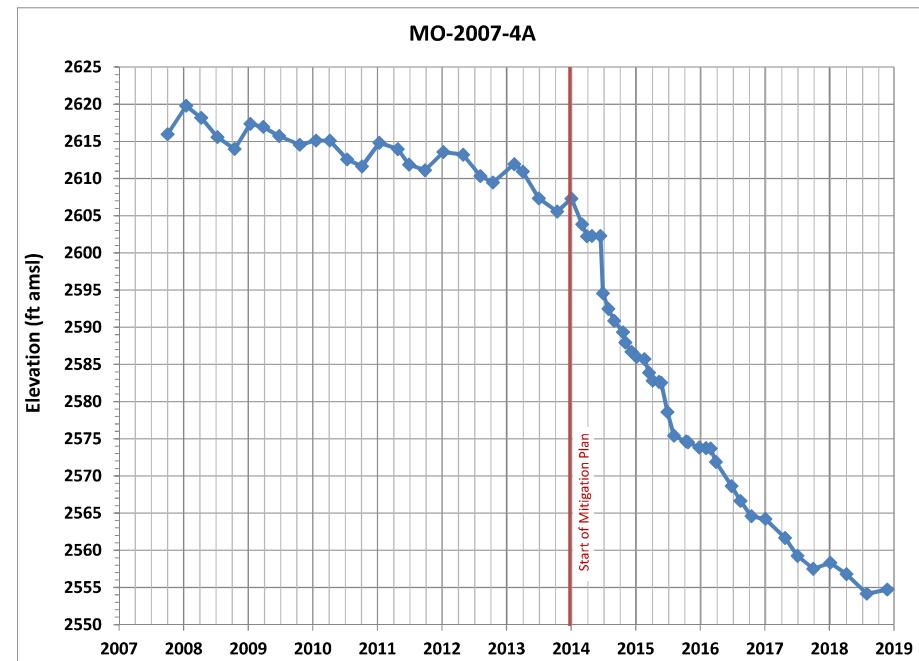
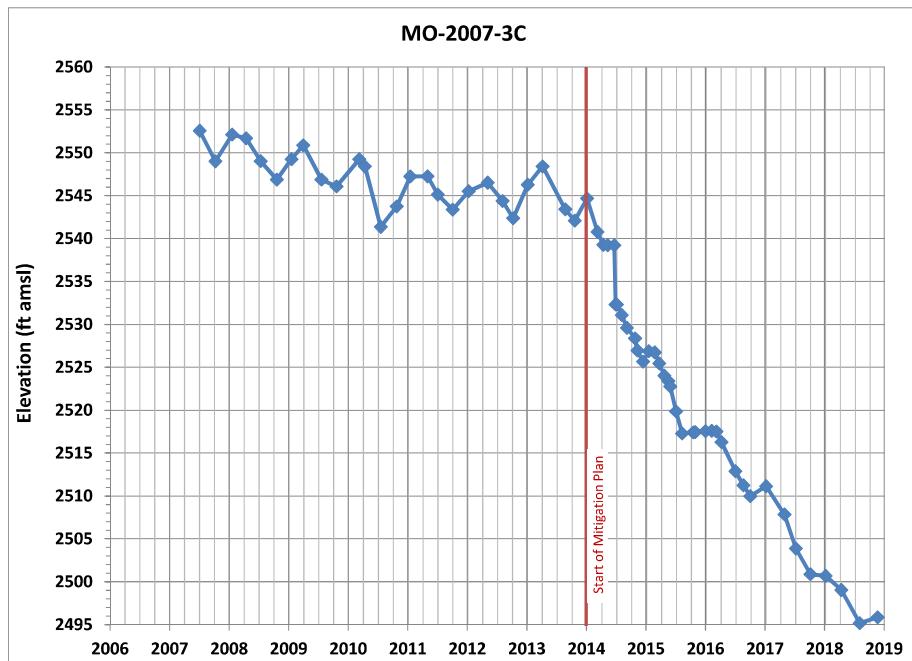
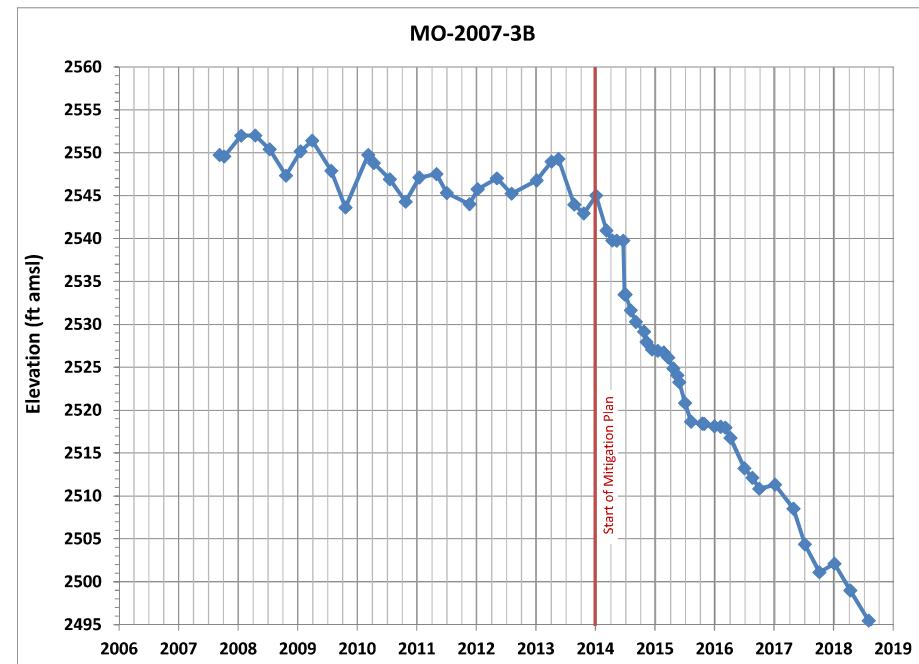
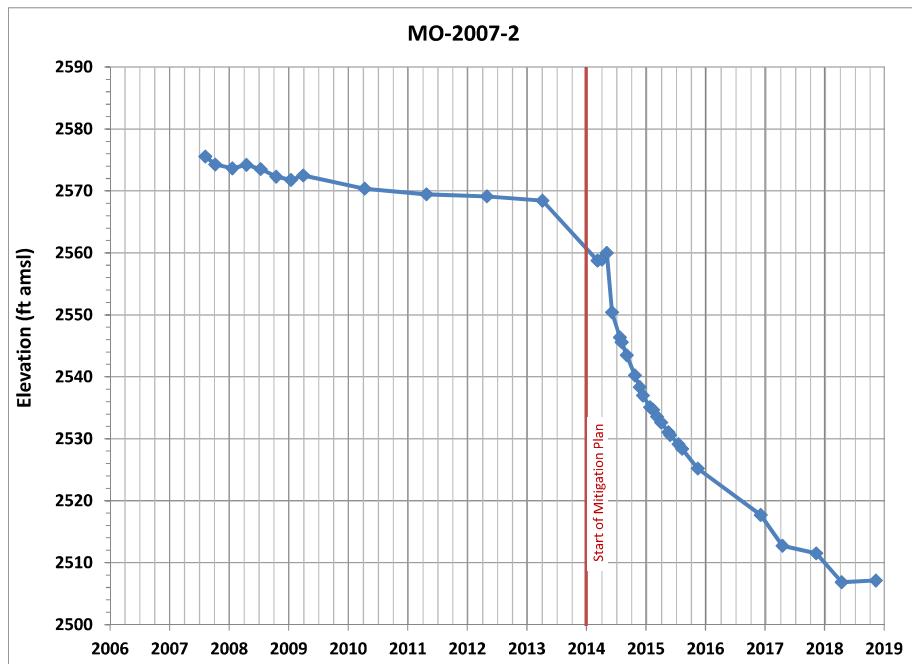


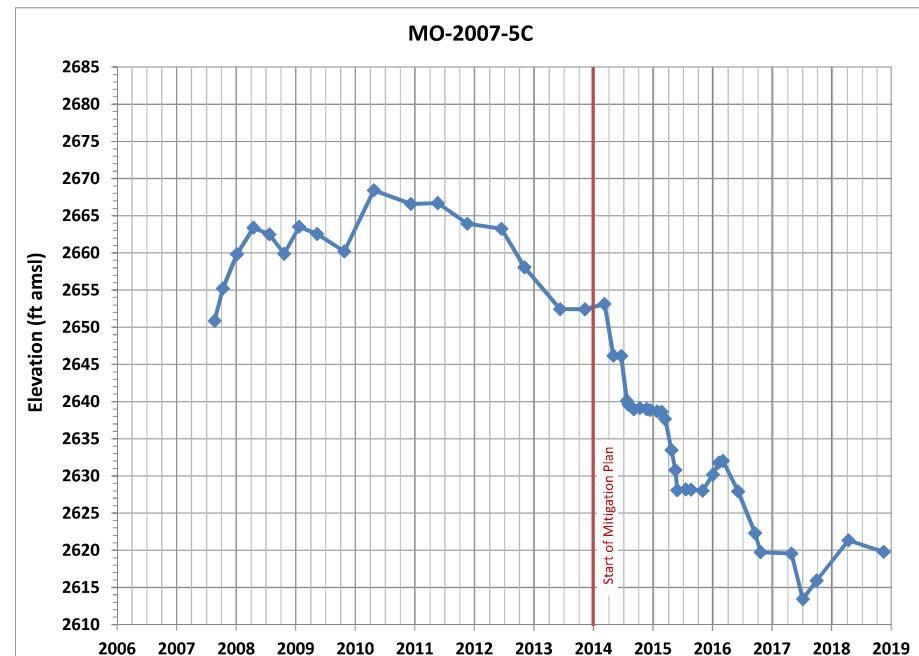
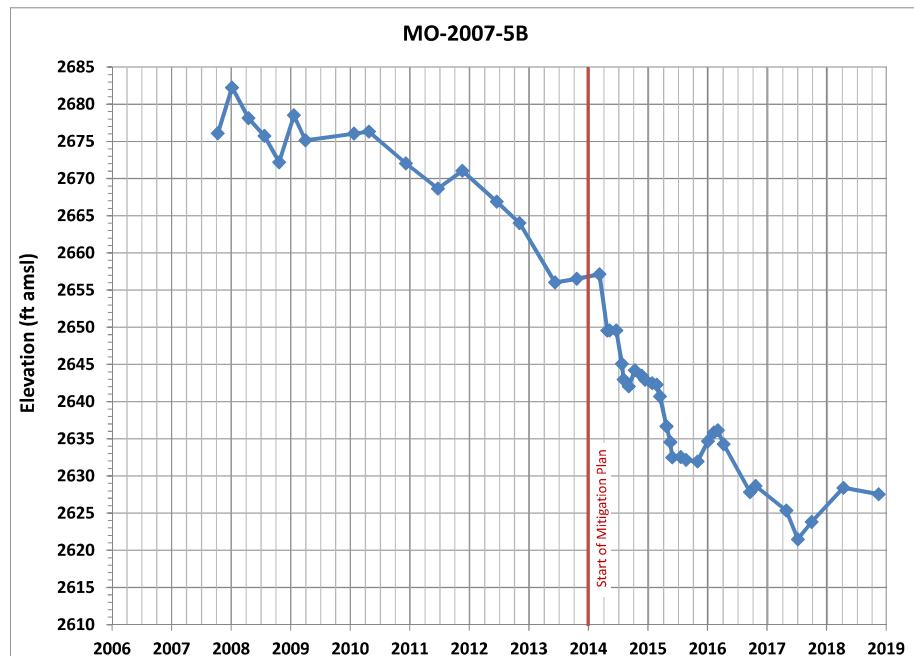
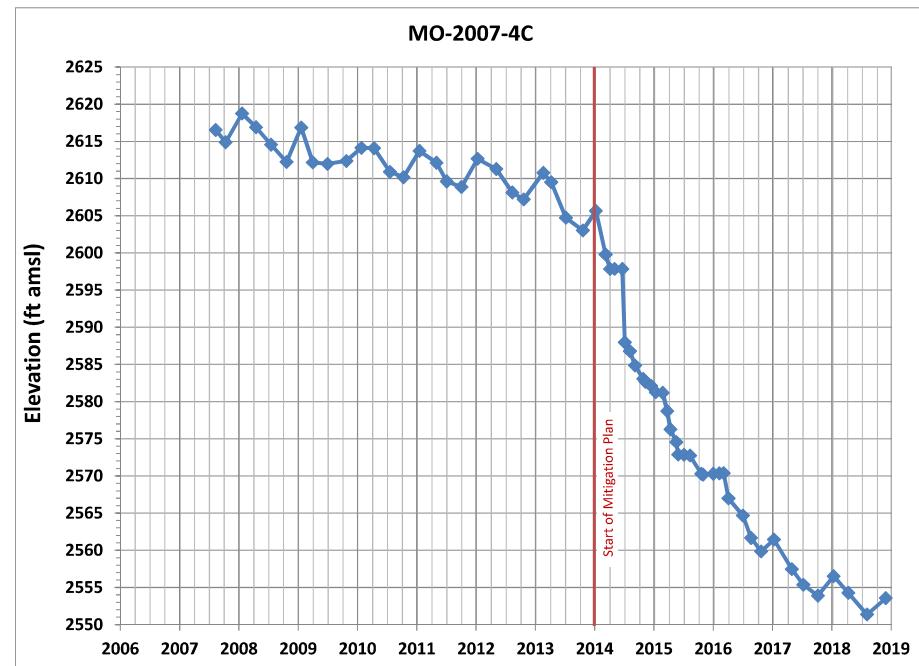
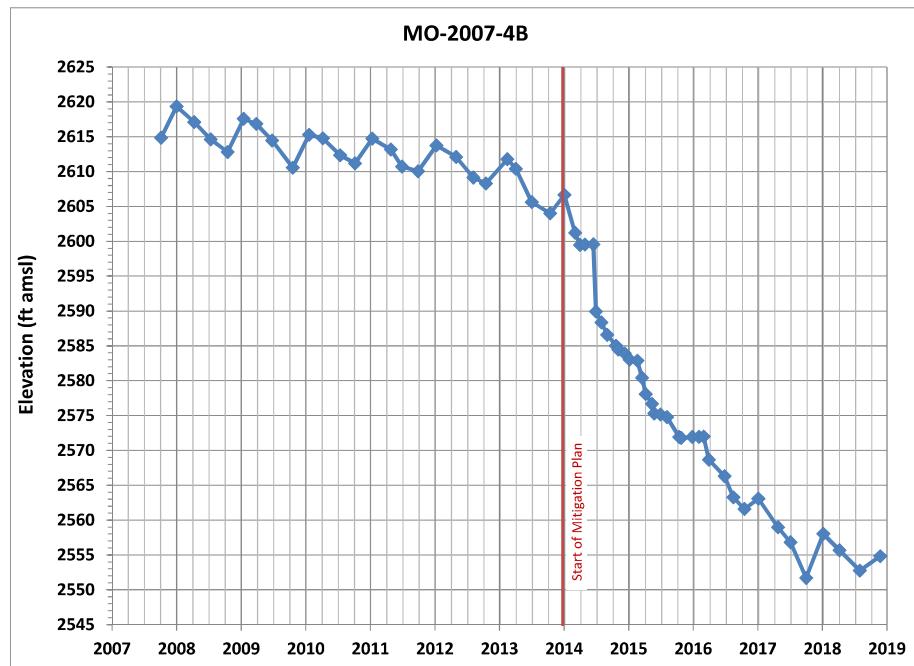


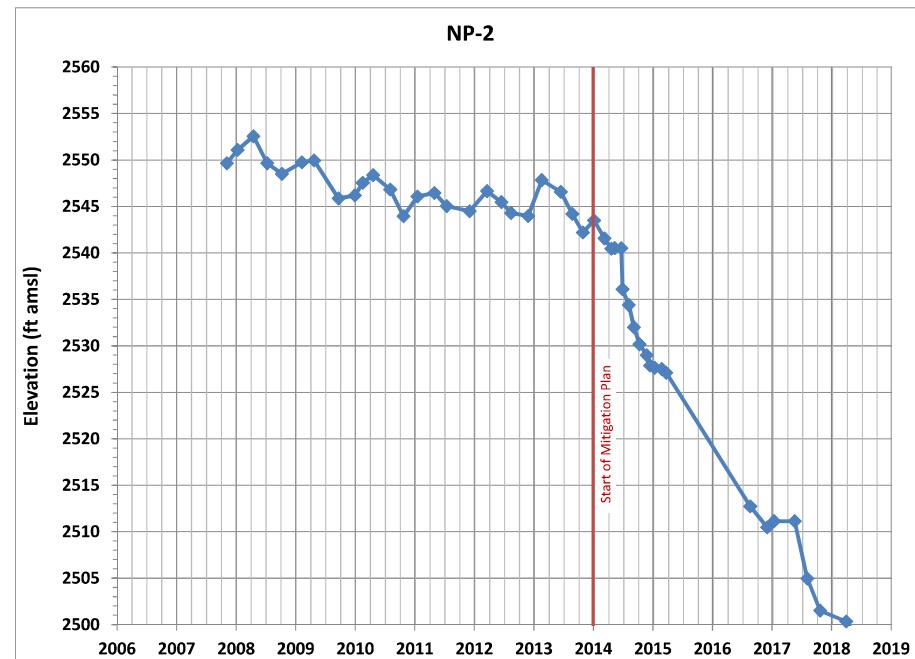
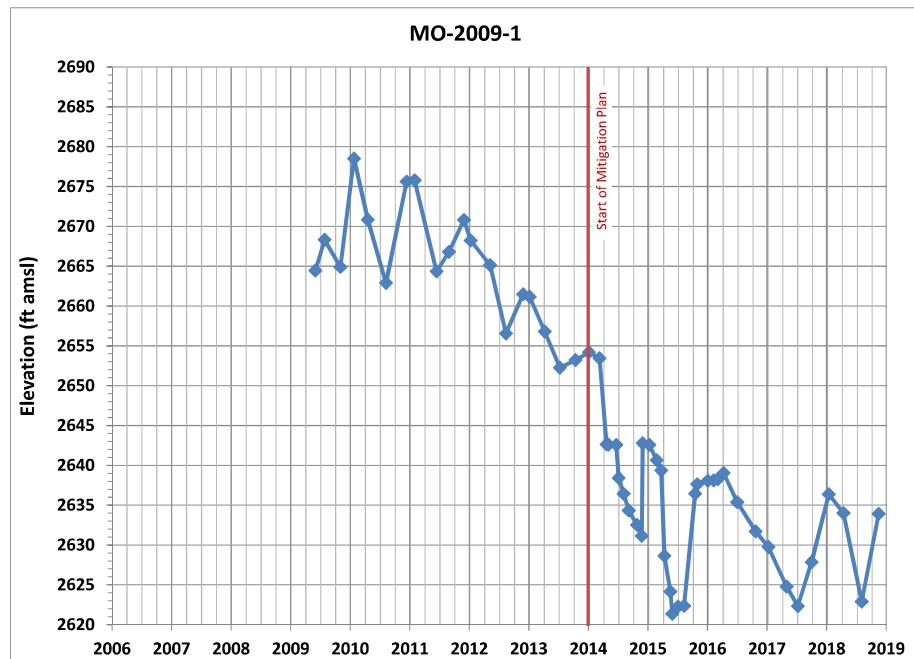
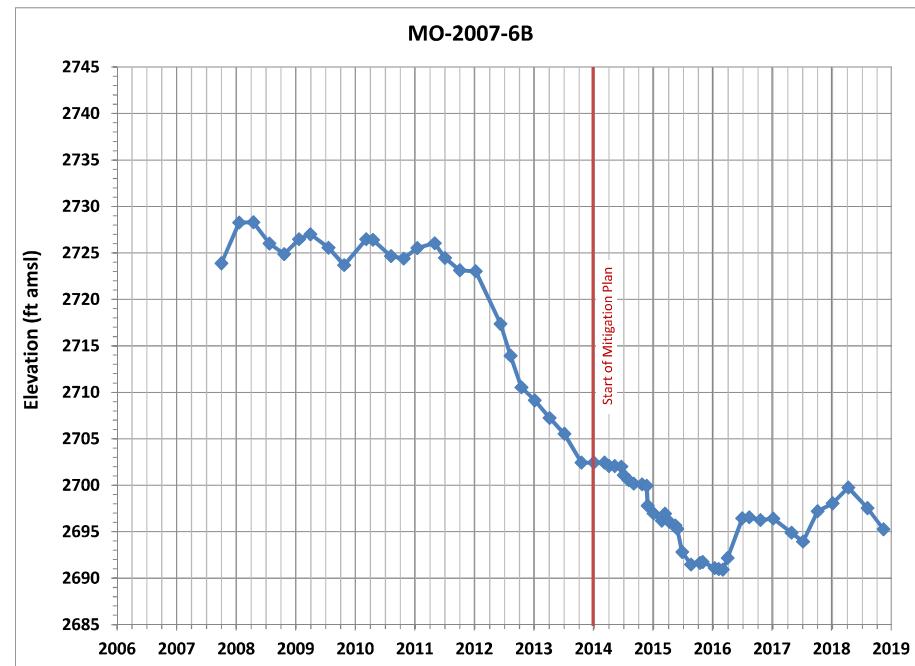
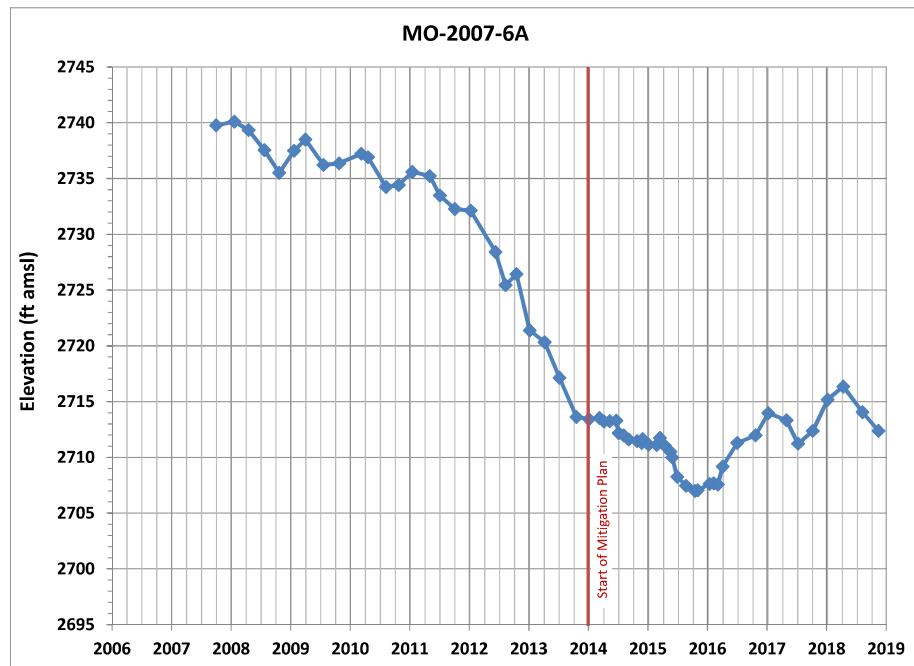


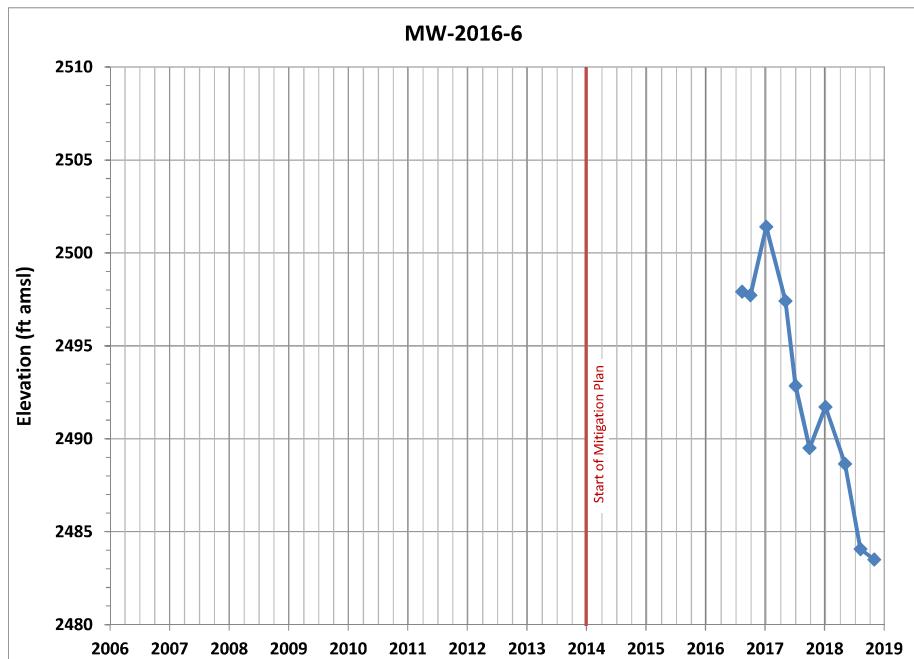
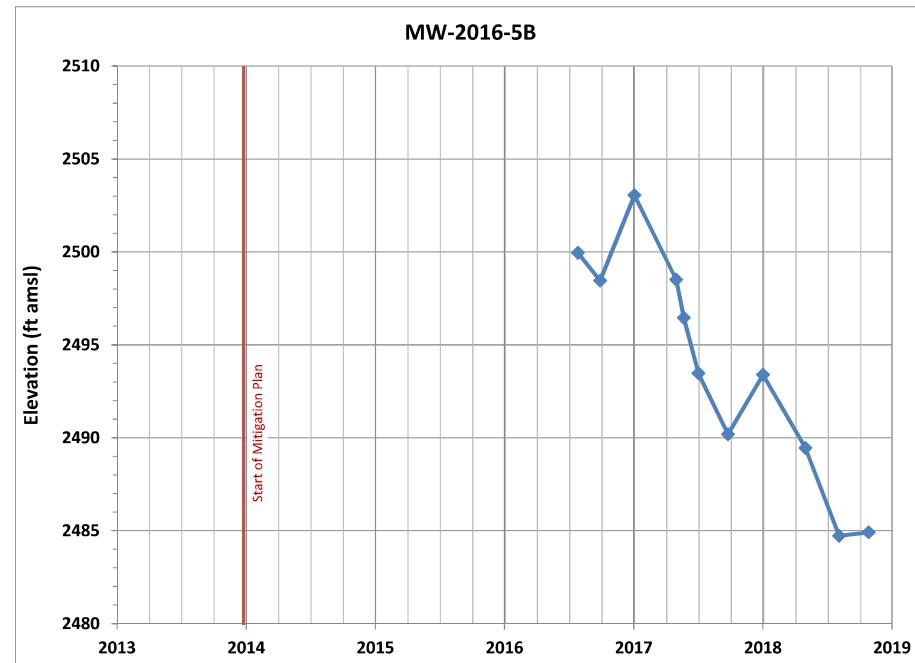
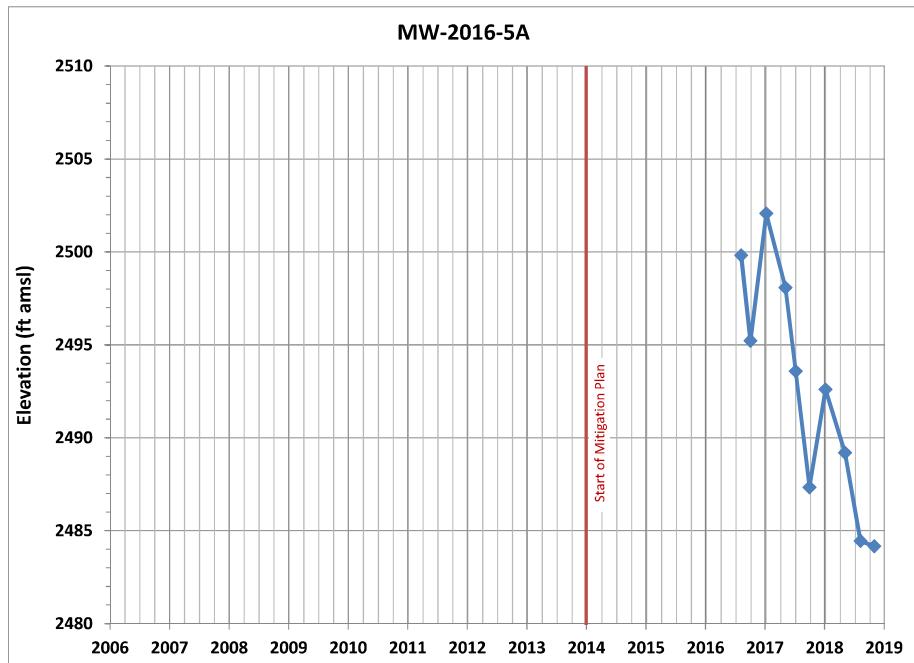












APPENDIX E

NUMERICAL MODEL UPDATE AND PREDICTIVE MODELING



TECHNICAL MEMORANDUM

To: William S. Hart, R.G., Freeport-McMoRan Sierrita, Inc.
From: Steven W. Corell, R.G., Clear Creek Associates
Subject: Performance Review for 2018, Numerical Model Update through 2018 and Predictive Simulation
Date: April 16, 2019



Expires 03 / 31 / 2021

1 Introduction

This report has been prepared for Freeport-McMoRan Sierrita Inc. (Sierrita), to document the 2018 Basin-Fill Model and 100-year predictive sulfate transport simulation. The Basin-Fill Model is used to simulate water levels and sulfate distribution under the groundwater pumping program conducted for the Mitigation Plan (Clear Creek Associates, 2013) and to predict future plume migration under various expected conditions.

Model construction, calibration, and updates are described in previous reports; Hydro Geo Chem, Inc. (2007), Hydro Geo Chem, Inc. and Clear Creek Associates (2010), Clear Creek Associates (2014), and Clear Creek Associates (2016). The model is constructed using the numerical code MODFLOW-SURFACT version 3.0 (HydroGeoLogic, Inc., 1996) for groundwater flow and transport simulations. MODFLOW-SURFACT is based on the U.S. Geological Survey modeling program MODFLOW (McDonald and Harbaugh, 1988). The Graphical User Interface (GUI) code "Groundwater Vistas" version 7.2 Build 9 (Environmental Simulations, Inc, 2018) was used to run simulations and evaluate model output. The Groundwater Vistas GUI allows for ease of model construction, execution, and processing of model output. The MODFLOW-SURFACT program is a 3D finite-difference flow and transport modeling code with significant improvements over public-domain versions of MODFLOW. MODFLOW-SURFACT addresses re-wetting of drained cells, handling of pumping wells, solute mass balance problems, numerical dispersion and oscillations, and impacts of transient flow storage effects on transport (HydroGeoLogic, Inc., 1996).

2 Numerical Model Update

The 2018 Basin-Fill Model is structured the same as reported in Clear Creek Associates (2016). Specific revisions for the 2018 Basin-Fill Model include:

1. Groundwater pumping specifications for wells operated by Sierrita were updated through year 2018 based on data provided by Sierrita.
2. Groundwater pumping specifications for the following Arizona Department of Water Resources (ADWR) groundwater right/permit holders were updated through year 2017 based on ADWR Annual Reports:
 - o Amado Water Company (ADWR Right/Permit No., 58-106984),
 - o Community Water Company of Green Valley (56-000046.0000),
 - o Country Club of Green Valley (58-101735.0001),
 - o FICO (58-101964, 56-000080.0000),
 - o Green Valley Domestic Water Improvement District (56-000302.0000),
 - o Green Valley Investors (58-104567.0000)
 - o Green Valley Municipal Property Corporation (56-000302.0000),
 - o Las Quintas Seranas Water Company (56-000128.0000),
 - o Pima County (58-109395.0003),
 - o Rancho Sahuarita (58-100316.0019),
 - o Rancho Sonado (58-111882.0001),
 - o Robson Ranch Quail Creek (56-000367, 58-105292),
 - o Sahuarita School District (58-160083.0000),
 - o Sahuarita Village Water Company (56-000191.0000),
 - o Sahuarita Water Company (56-000373.0000), and
 - o Town of Sahuarita (58-100316.0018)
3. Groundwater pumping specifications for the providers listed above are carried forward through year 2018. Sierrita Tailings Impoundment (STI) seepage was updated for years 2016 to 2018 based on a water balance model provided to Sierrita by Montgomery & Associates.
4. Groundwater recharge at the Project RENEWS (ADWR Permit No. 71-222410) facility is still being reported as zero through year 2018. The Green Valley Wastewater Reclamation Facility (WRF) delivers reclaimed water to the Robson Ranch/Quail Creek (ADWR Permit No. 71-581379) recharge facility for recharge. The treated effluent is recharged in a series of 5 percolation basins. Groundwater recharge at the Robson Ranch/Quail Creek permitted recharge facility has been updated through year 2017 based on ADWR Annual Reports. The facility has an ADWR USF permit for annual storage up to 2,240 acre-feet (AF). The 2017 reported recharge is carried forward to year 2018. Reported recharge for the previous 5 years at the facility is summarized below:
 - o 2013 1,279.85 AF
 - o 2014 1,426.20 AF
 - o 2015 1,615.45 AF
 - o 2016 1,621.44 AF
 - o 2017 1,620.69 AF
5. Groundwater level targets were updated through 4th Quarter 2018 using information from ADWRs Groundwater Site Inventory (GWSI) database, and Sierrita's Environmental Management database.

2.1 STI Seepage Update

The STI seepage estimates were updated for 2016 to 2018 for the current study. A water balance method was used by Sierrita to estimate the amount of seepage from the STI for 2016 to 2018. The water balance method calculates annual seepage from the STI to the basin-fill aquifer as the difference between the sum of all water inputs and the sum of outflows and water retained, as described by Clear Creek Associates (2014). Water inputs include water delivered to the STI in tailing slurry, precipitation, and surface water discharge to the STI. Water outflows include tailing water reclaimed from the STI, evaporation, water retained in the tailing material and seepage from the tailing. Using the water balance model Sierrita estimated the STI seepage estimates as:

- 2016: 5,682 AF
- 2017: 7,773 AF
- 2018: 8,580 AF

2.2 Groundwater Pumping 2017-2018

Groundwater pumping is the primary groundwater sink in the 2018 Basin-Fill Model domain. Groundwater pumping rates for all Sierrita mitigation extraction and water supply wells were updated through 2018 from data provided by Sierrita. The 2018 Basin-Fill Model update includes 2017 groundwater pumping rates for the Amado Water Co., Community Water Co. of Green Valley, Country Club of Green Valley, FICO, Green Valley DWID, Green Valley Investors, Green Valley Municipal Corp., Las Quintas Serenas Water Co., Pima County, Rancho Sahuarita, Rancho Sonado, Robson Ranch Quail Creek LLC, Sahuarita School District, Sahuarita Village Water Co., Sahuarita Water Co., and the Town of Sahuarita were obtained from ADWR Annual Reports. The 2017 pumping rates for these water providers were carried forward to year 2018. **Tables 1** and **2** list well locations and pumping rates used in the 1941-2018 transient model. **Table 1** lists well locations and pumping rates taken from the ADWRs Tucson Active Management Area (AMA) model (Mason and Bota, 2006). **Table 2** lists well locations and pumping rates for 1971 to 2018 taken from various sources. Pumping information from various sources is incorporated into the 2018 Basin-Fill Model as follows:

- For years 1940 to 1970 pumping estimates from the 2006 ADWR Tucson AMA model are applied exclusively.
- For years 1971 to 1983 pumping rates from Errol L. Montgomery and Associates (ELMA) (2007) were applied.
- For years 1984 to 2006 pumping rates are applied from ELMA (2007) or from the ADWR's Registry of Groundwater Rights (ROGR) database for wells (ADWR, 2018) and/or years not included in ELMA (2007).

Pumping rates from 2007 to 2018 are from Sierrita, ADWR's Registry of Wells in Arizona (Wells55 database), and ADWR Annual Reports.

2.3 Hydraulic Parameters and Boundary Conditions

The 2018 Basin-Fill Model hydraulic parameters and boundary conditions are the same as reported in Clear Creek Associates (2016).

3 TRANSIENT SIMULATION 1941-2018

The 2018 Basin-Fill Model simulated groundwater level contours for the fourth quarter of 2018 are shown on **Figure 1**. Also shown on **Figure 1** are model calculated residuals for the fourth quarter of 2018, negative residuals indicate model calculated heads are too high, positive residuals indicate model calculated heads are too low.

Groundwater level targets are sub-divided into two Groups¹ for statistical analysis: Group 1, Includes measured groundwater levels of “other wells” that are not part of the Mitigation Order water level data collection, and Group 2, Includes Mitigation Order water level monitor wells located within the Area of Emphasis² measured water levels of the IW, FFS, MC, and PS wells are not included in Group 2 as these are generally dynamic water levels. The current update of the basin-fill model shows a model bias of over simulating water levels model wide and within the Area of Emphasis (**Figure 1**). Over simulating observed water levels results in under-simulation of recent observed drawdowns due to mitigation plan pumping in the Area of Emphasis. Model calculated residuals range from -23.1 meters to +3.25 meters (-75.9 feet to +10.7 feet).

The scaled Root Mean Square (RMS) error for Groups 1 and 2 targets combined is 4.1 percent, and 7.0 percent for the Group 2 targets (Mitigation Order monitor wells). The following **Table** provides a summary of target statistics for the current 1941 through 2018 transient simulation.

¹ Groundwater Vistas allows for each groundwater level target to have a unique Group number. Each Group can be summarized separately when computing calibration statistics in Groundwater Vistas.

² The Area of Emphasis (AOE) is the area in the vicinity of the STI, including areas surrounding the current extent of the sulfate plume. The AOE is bounded by UTM 3,519,700 on the south, UTM 3,531,900 on the north, the no-flow boundary on the west, and UTM 503,700 on the east (see **Figure 1**).

Summary of Target Statistics: 1941 to 2018

Parameter	<i>Simulation-1941-2018</i>	<i>Simulation-1941-2018</i>
	<i>Group 1 and 2 (meters)</i>	<i>Group 2 (meters)</i>
<i>Residual Mean</i>	-4.05	-6.71
<i>Residual Std. Deviation</i>	7.83	6.16
<i>Absolute Residual Mean</i>	6.99	7.66
<i>RMS Error</i>	8.81	9.11
<i>Minimum Residual</i>	-61.4	-29.82
<i>Maximum Residual</i>	37.23	17.44
<i>Range of Observations</i>	213.55	130.70
<i>Scaled Res. Std. Dev.</i>	0.037	0.047
<i>Scaled Abs. Mean</i>	0.033	0.059
<i>Scaled RMS</i>	4.1%	7.0%
<i>No. of Observations</i>	8366	4889

3.1 Numerical Model Prediction of 2018 Sulfate Distribution and Capture Zone

A numerical simulation of the hydraulic head field created by pumping was used for an assessment of the capture zone. The numerical model for groundwater flow and sulfate transport was updated to simulate the capture zone for mitigation action pumping through 2018.

Figure 2 shows the fourth quarter 2018 sulfate distribution simulated by the updated model. The simulated extent of the sulfate matches the observed extent well, however, the model underestimates the eastern extent of the plume at the MO-2007-5 wells and the north-northeast extent at MW-2016 5A and 5B. The capture zone indicated by the updated numerical model for groundwater pumping through 2018 is shown on **Figure 3**. The capture zone is interpreted from gradient vector plots created with the predicted groundwater elevations. Three capture zone outlines are shown on **Figure 3** because slightly different capture zones are indicated for model layers 1, 2, and 3.

4 PREDICTIVE SIMULATION UNDER 2018 PUMPING RATES

4.1 Numerical Model

The 2018 Basin-Fill Model was used to simulate future plume migration under 2018 pumping rates. The annual amount of sulfate impacted groundwater pumped from the mitigation wellfield during 2018 was below the performance goal pumping rate of 10,642 gpm. In 2018 the mitigation wellfield withdrew about 9,080 gpm. The reduced groundwater withdrawal rate was due to the re-alignment of delivery pipelines during construction of the buttress at the STI. The Interceptor and Mitigation Order wellfields were partially shut-down from November 26, 2018 to January 9, 2019, resulting in lower total pumping rates.

The performance goal pumping rate was established as a guideline that would accomplish plume stabilization and prevent sulfate migration to drinking water supply wells. The objective of the predictive modeling is to assess the adequacy of mitigation pumping at the 2018 average rate (9,080 gpm) in accomplishing plume stabilization and maintaining the mitigation action objective. The 2018 Basin-Fill Model includes the simulation of groundwater pumping at the Interceptor Wells (IW), Focused Feasibility Study wells (FFS), Plume Stabilization (PS), and Mass Capture (MC) wells under the Mitigation Order, and future pumping for water supply, agricultural, and mining uses in the area of the plume.

4.2 Predictive Simulation Pumping

Interceptor and Mitigation Order Wellfield Pumping

Table 3 summarizes the well pumping specifications for the FFS, IW, PS, and MC wells predictive simulation under the 2018 pumping assumptions. The predictive simulation was run 100-years into the future to year 2118.

Non-Sierrita Pumping

For the predictive simulation, future pumping for non-Sierrita wells was based on the Upper Santa Cruz Providers and Users Group (USCPUG) water usage report (USCPUG, 2012). The USCPUG report includes estimates of future pumping for FICO/Farmers Water Company, Green Valley Water District, Community Water Company, Sahuarita Water Company, Las Quintas Water Company, Quail Creek Water Company, State Trust Land Use, and Rosemont Mine. Groundwater pumping of other non-

Sierrita water users not included in the USCPUG report is held constant at reported 2017 rates to year 2118. 2017 non-Sierrita well pumping rates were obtained ADWR Annual Reports (ADWR Imaged Records Database, accessed February 2019).

Future STI Seepage

The STI seepage rate for the predictive model assumes 2018 STI seepage rates to year 2088. The predictive model assumes drain-down of the STI begins after year 2088 when the STI is closed and tailing delivery ends. The approach for modeling drain-down is described by Clear Creek Associates (2014). The drain-down simulation for a tailing thickness of 863 feet predicts that seepage will decrease to about 50 percent of its original rate 18 years after the start of drain-down, and to about 10 percent of its starting rate in 100 years. The predictive simulation assumes that drain-down begins in year 2089.

4.3 Predictive Model Results – Sulfate Plume Maps

A series of maps were prepared showing the extent of the maximum concentration sulfate plume over time. Model cells with a saturated thickness of less than 7.5 meters (25 feet) are not included in the analysis. Showing the extent of the sulfate plume using the maximum concentration of the three model layers provides a conservative estimate of the sulfate plume with respect to the plume extent estimated from regional water quality sampling.

The extent of the simulated sulfate plume from 2019 to 2118 for the predictive simulation under 2018 pumping rates is shown on **Figure 4**. Maps showing the predicted sulfate plume in 20-year increments are shown on **Figures 5 to 10**. The predictive simulation shows little change in the areal extent of the plume over time (**Figures 4 to 10**) with continuous pumping at 2018 average annual rates. The sulfate plume is not predicted to impact public or private drinking water supply wells.

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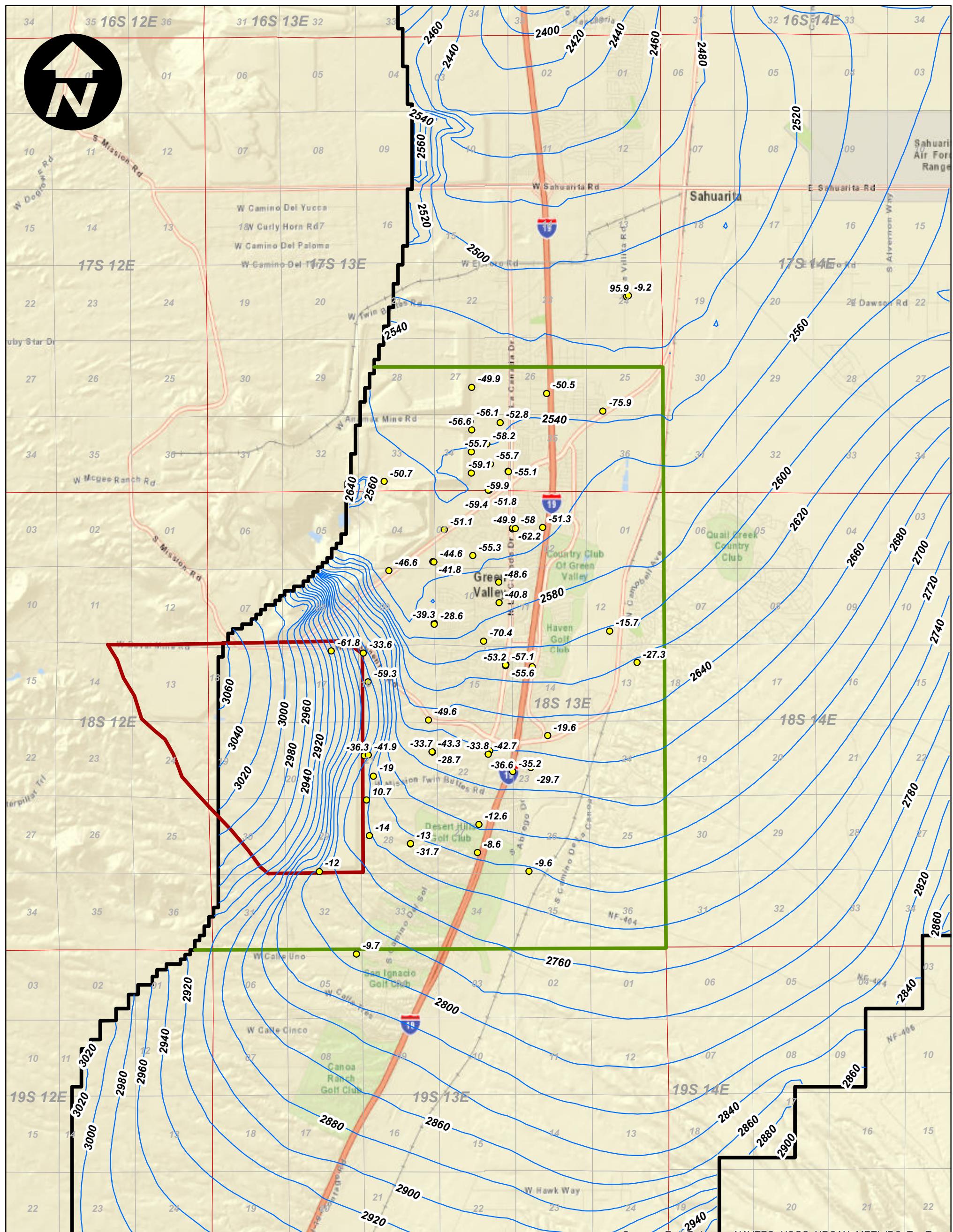
FIGURES

- 1 2018 Calculated Groundwater Table Contours and Residuals
- 2 Simulated Average Sulfate Concentration Contours For End of Year 2018 vs. Q4 2018 Measured
- 3 2018 Model Simulated Groundwater Levels and Capture Zone
- 4 Simulated Extent of Sulfate Plume From 2019-2118 for Predictive Simulation Under 2018 Pumping Rates
- 5 Simulated Sulfate Plume in 2019 (Year 1) for Predictive Simulation Under 2018 Pumping Rates
- 6 Simulated Sulfate Plume in 2038 (Year 20) for Predictive Simulation Under 2018 Pumping Rates
- 7 Simulated Sulfate Plume in 2058 (Year 40) for Predictive Simulation Under 2018 Pumping Rates
- 8 Simulated Sulfate Plume in 2078 (Year 60) for Predictive Simulation Under 2018 Pumping Rates
- 9 Simulated Sulfate Plume in 2098 (Year 80) for Predictive Simulation Under 2018 Pumping Rates
- 10 Simulated Sulfate Plume in 2118 (Year 100) for Predictive Simulation Under 2018 Pumping Rates

TABLES

- 1 1941–1983 Well Locations and Pumping Rates for Transient Simulation (GPM), Source ADWR Model
- 2 Well Locations and 1971 – 2018 Pumping Rates (GPM) for Transient Simulation, Taken From Various Sources
- 3 2018 Pumping Rates for Interceptor and Mitigation Order Wellfield

FIGURES



Legend

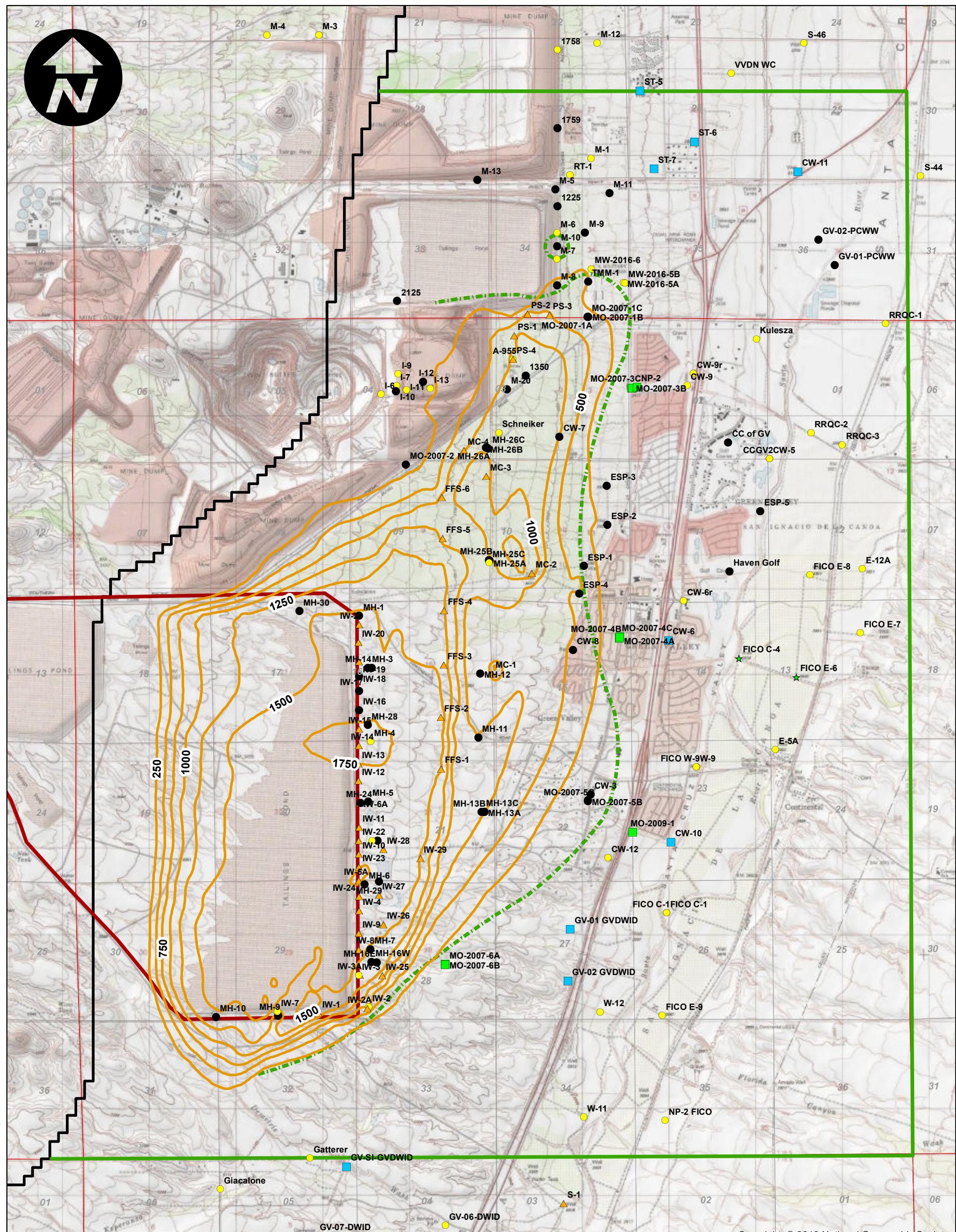
- 2018 Model Calculated Residuals (feet)
- 2018 Model Calculated Groundwater Table (ft. amsl)
- Area of Emphasis
- Sierrita Tailings Impoundment
- Model Extents
- World Street Map

0 0.25 0.5 1 1.5 2 2.5 Miles

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FIGURE 1
2018 CALCULATED GROUNDWATER TABLE CONTOURS AND RESIDUALS

March 2019 swc



Legend

Sierrita Sampled Wells

- ★ AGRICULTURE
- DWS
- ▲ EXTRACTION
- MONITOR
- SENTINEL
- OTHER WELLS (NOT SAMPLED)

— 2018 Simulated Average Sulfate Concentration (mg/L)

— 2018 Measured 250 mg/L

— Area of Emphasis

— PDSTI_shp

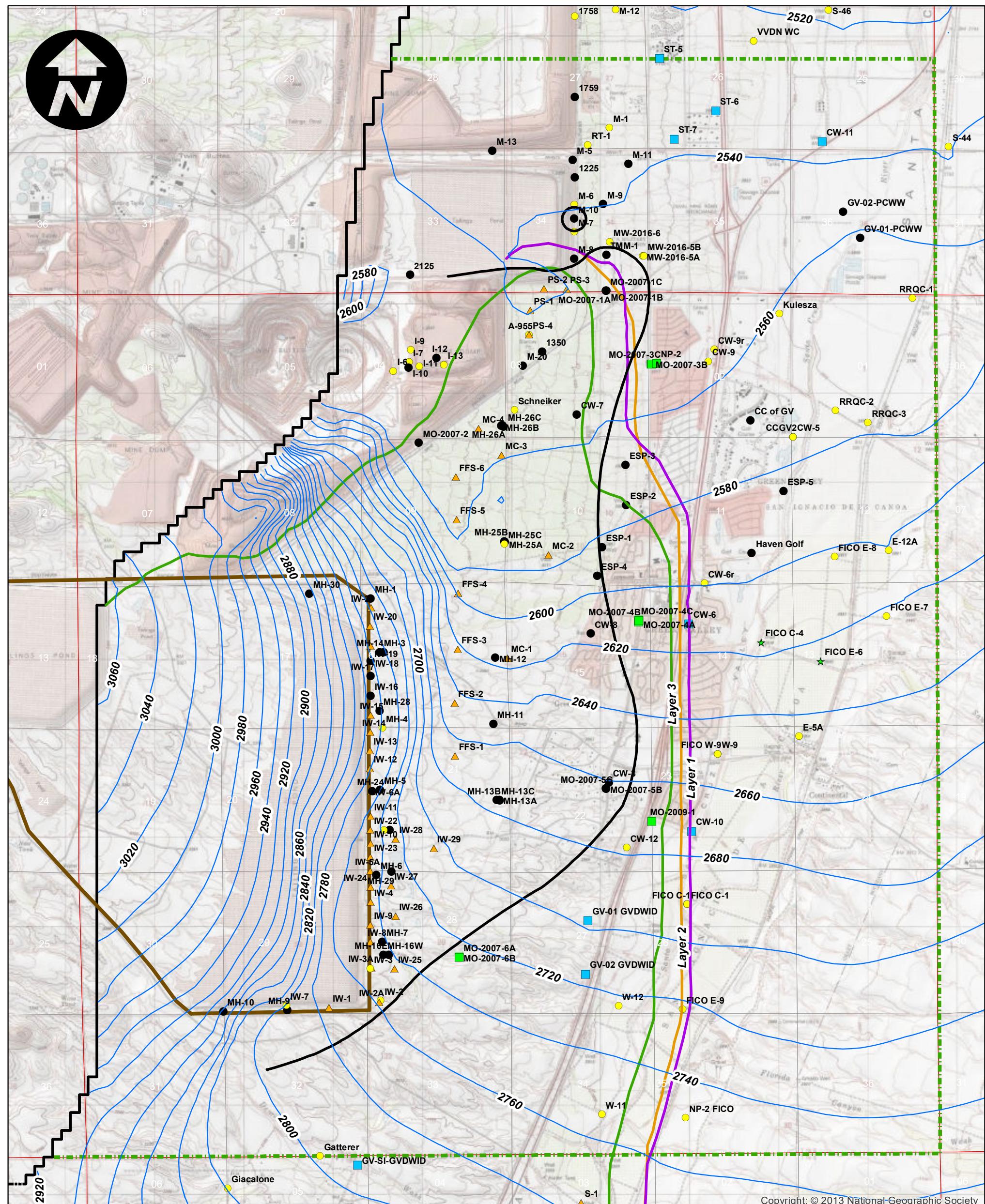
— Model Extents

0 0.25 0.5 1 Miles

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FIGURE 2
**SIMULATED AVERAGE SULFATE CONCENTRATION
CONTOURS FOR END OF YEAR 2018 VS Q4 2018 MEASURED**

March 2019 swc



Legend

- 2018 Simulated Water Table Elevation (ft. amsl)
- Target Capture Zone, 250 mg/L Sulfate Concentration Contour Q4 2018

0 0.25 0.5 1 1.5 2 Miles

2018 Model Simulated Capture Zone

- Layer 1
- Layer 2
- Layer 3

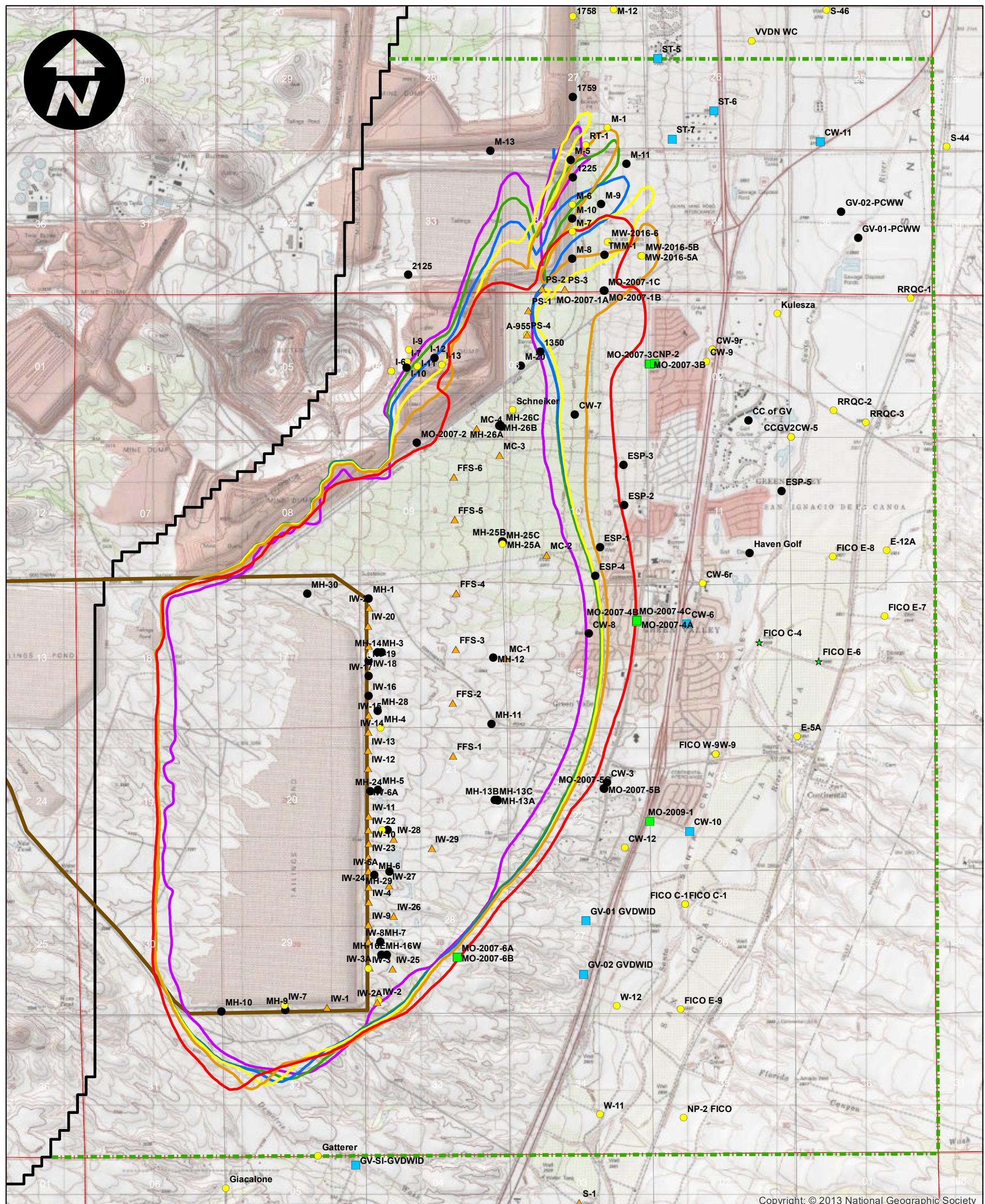
Sierrita Sampled Wells

- ★ AGRICULTURE
- DWS
- ▲ EXTRACTION
- MONITOR
- SENTINEL
- OTHER WELLS (NOT SAMPLED)
- Area of Emphasis
- PDSTI_shp
- Model Extents

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FIGURE 3
**2018 MODEL SIMULATED GROUNDWATER LEVELS
AND CAPTURE ZONE**

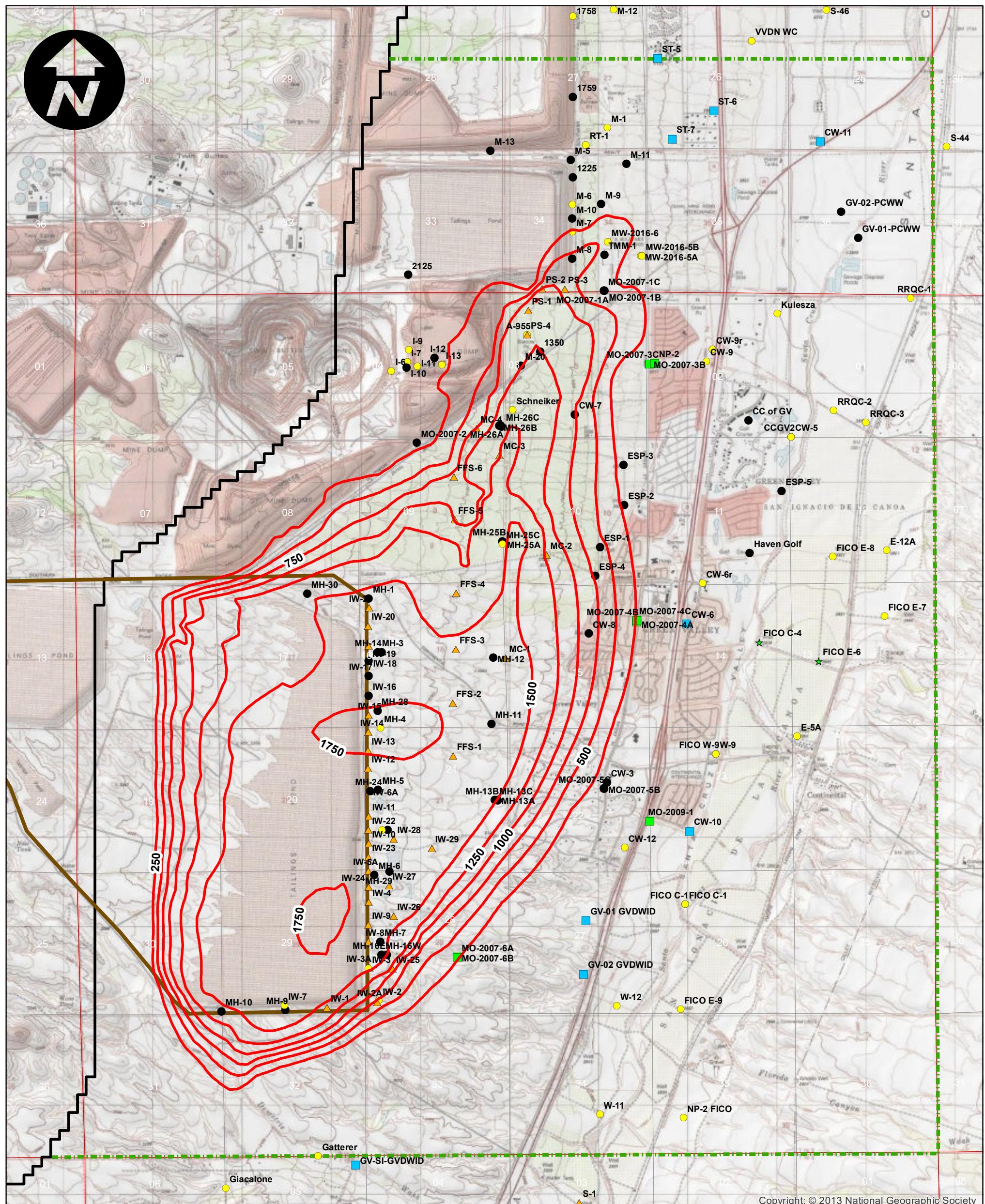
March 2019 swc



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FIGURE 4
SIMULATED EXTENT OF SULFATE PLUME FROM 2019 - 2118 FOR PREDICTIVE SIMULATION UNDER 2018 PUMPING RATES

March 2019 swc



Legend

— 2019 (Year 1) Sulfate Contours (mg/L) at 2018 Pumping Rates

0 0.25 0.5 1 1.5 2 Miles

Sierrita Sampled Wells

- ★ AGRICULTURE
- DWS
- ▲ EXTRACTION
- MONITOR
- SENTINEL
- OTHER WELLS (NOT SAMPLED)

— Area of Emphasis

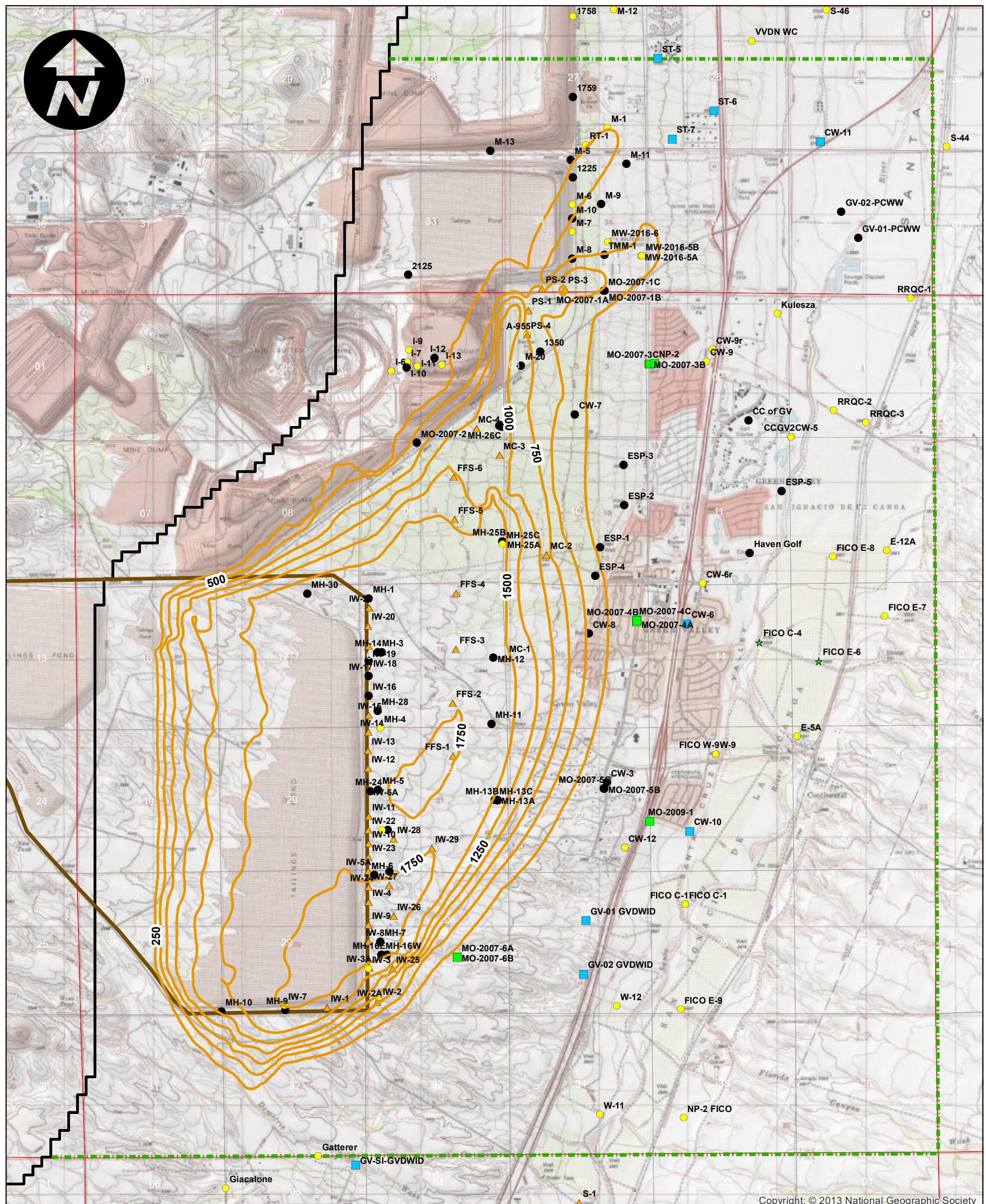
— PDSTI_shp

□ Model Extents

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FIGURE 5
SIMULATED SULFATE PLUME IN 2019 (YEAR 1)
FOR PREDICTIVE SIMULATION UNDER
2018 PUMPING RATES

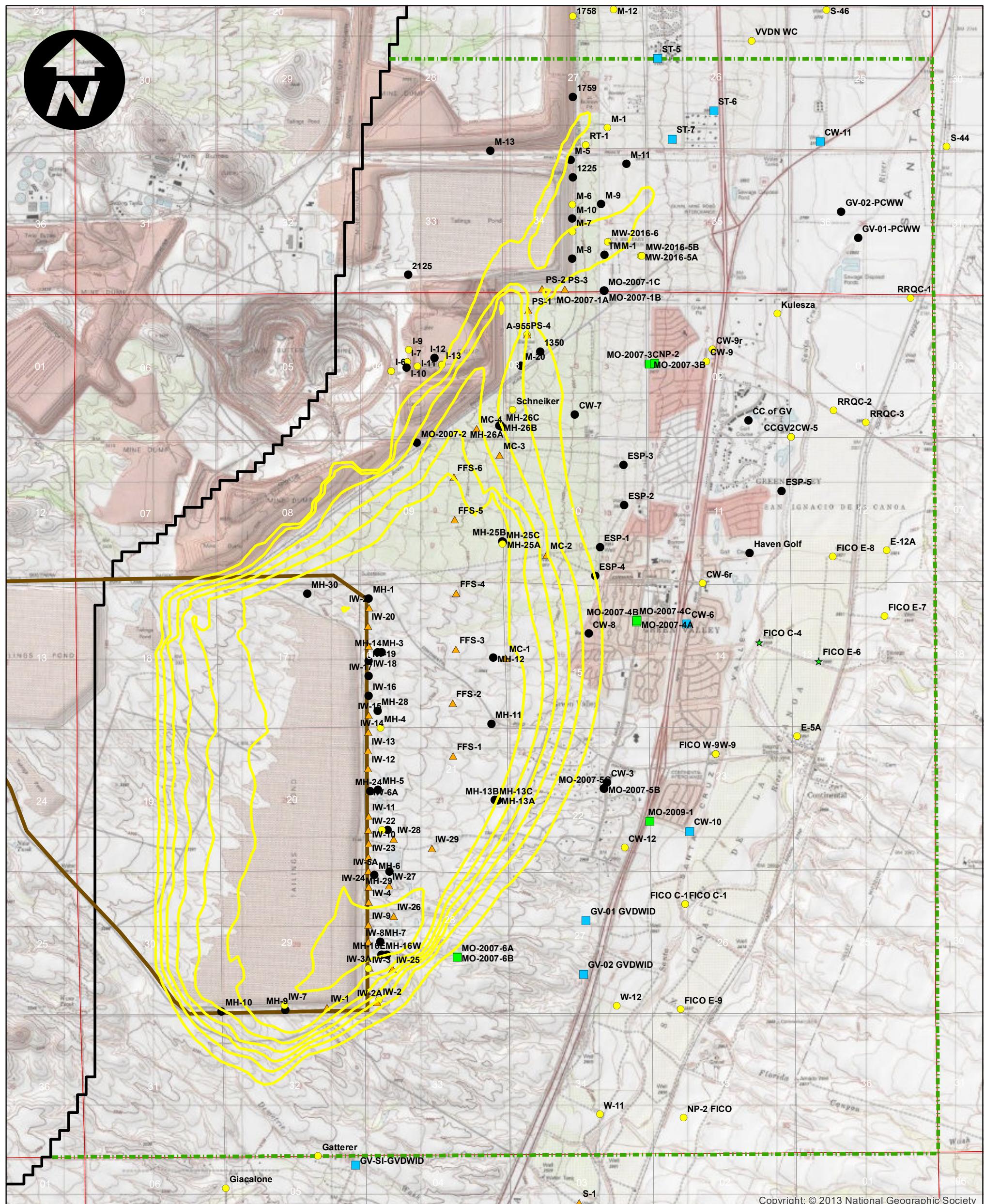
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FIGURE 6
**SIMULATED SULFATE PLUME IN 2038 (YEAR 20)
FOR PREDICTIVE SIMULATION UNDER
2018 PUMPING RATES**

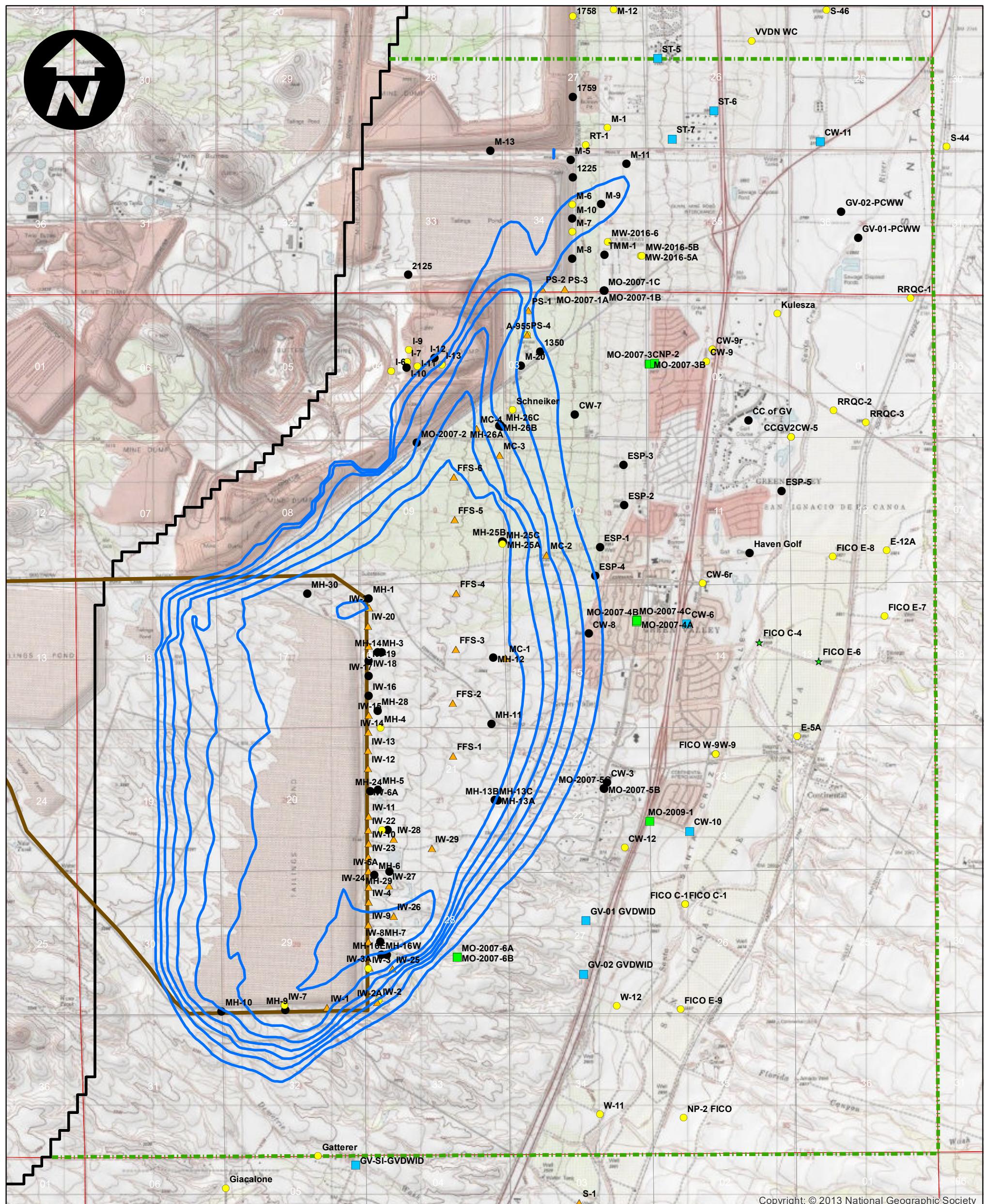
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FIGURE 7
**SIMULATED SULFATE PLUME IN 2058 (YEAR 40)
FOR PREDICTIVE SIMULATION UNDER
2018 PUMPING RATES**

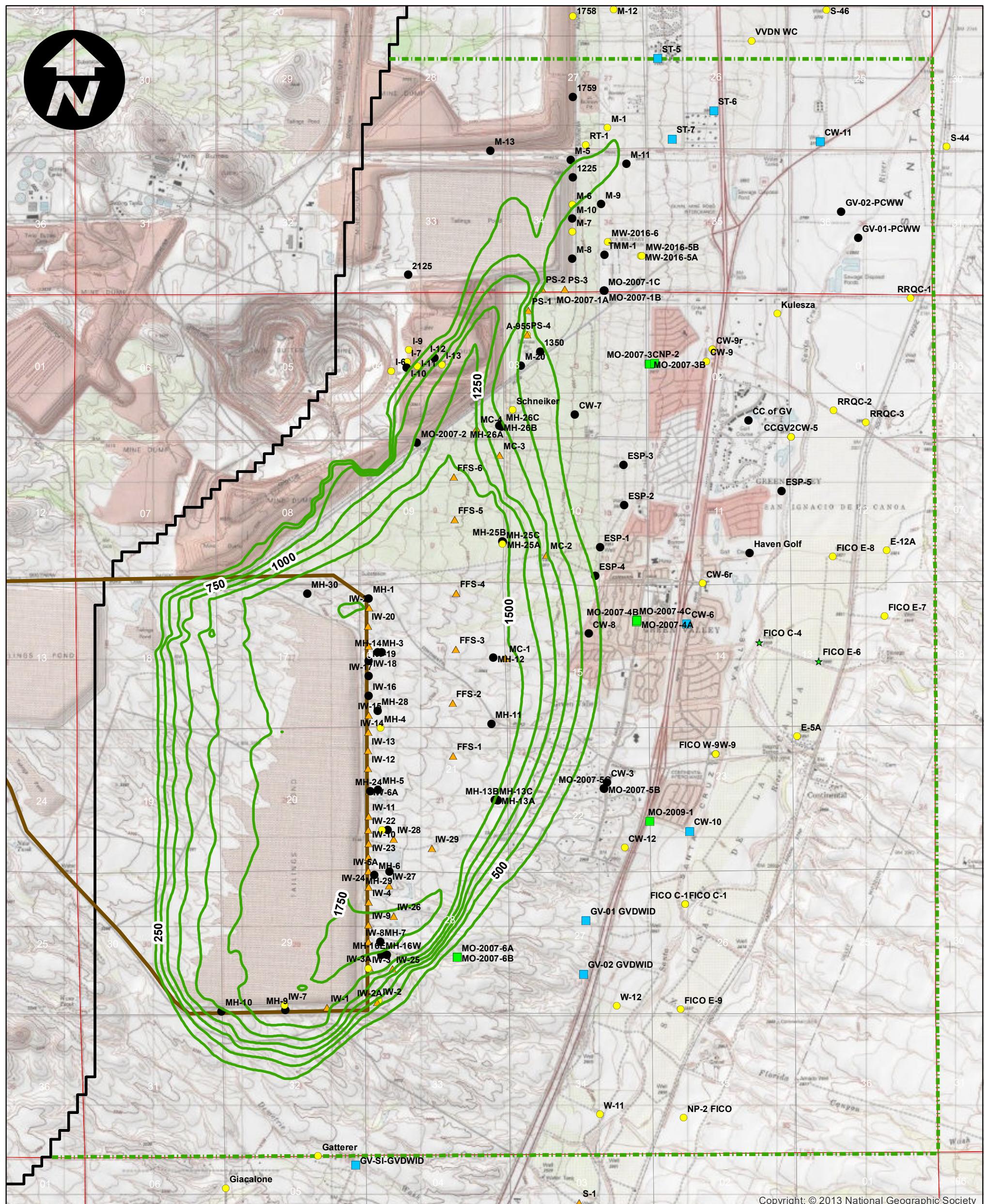
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FIGURE 8
**SIMULATED SULFATE PLUME IN 2078 (YEAR 60)
FOR PREDICTIVE SIMULATION UNDER
2018 PUMPING RATES**

March 2019 swc



Legend

— 2098 (Year 80) Sulfate Contour (mg/L) at 2018 Pumping Rates

0 0.25 0.5 1 1.5 2 Miles

Sierrita Sampled Wells

- ★ AGRICULTURE
- DWS
- ▲ EXTRACTION
- MONITOR
- SENTINEL
- OTHER WELLS (NOT SAMPLED)

— Area of Emphasis

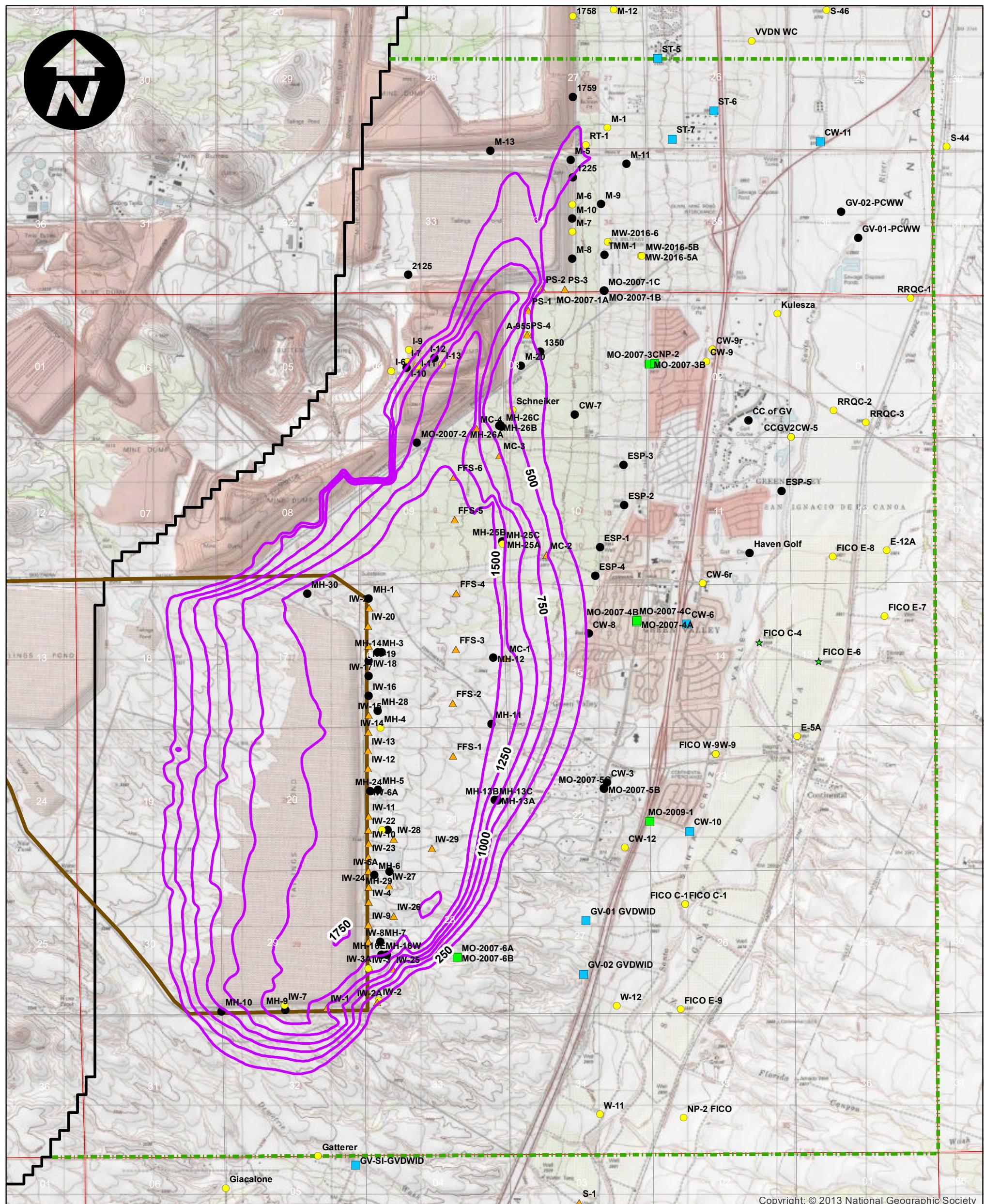
— PDSTI_shp

□ Model Extents

CLEAR CREEK ASSOCIATES

FIGURE 9
**SIMULATED SULFATE PLUME IN 2098 (YEAR 80)
FOR PREDICTIVE SIMULATION UNDER
2018 PUMPING RATES**

March 2019 swc



Legend

— 2118 (Year 100) Sulfate Contour (mg/L) at 2018 Pumping Rates

0 0.25 0.5 1 1.5 2 Miles

Sierrita Sampled Wells

- ★ AGRICULTURE
- DWS
- ▲ EXTRACTION
- MONITOR
- SENTINEL
- OTHER WELLS (NOT SAMPLED)

— Area of Emphasis

— PDSTI_shp

— Model Extents

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FIGURE 10
SIMULATED SULFATE PLUME IN 2118 (YEAR 100)
FOR PREDICTIVE SIMULATION UNDER
2018 PUMPING RATES

March 2019 swc

TABLES

**TABLE 1. 1941-1983 Well Location and Pumping Rates
For Transient Simulation (gpm),
Source ADWR Model (Mason and Bota, 2006)**

WellName	UTM83E	UTM83N	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
ANAMAX?	502246	3531582	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
ANAMAX?	502246	3534801	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
ANAMAX?	502327	3533996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
ANAMAX?	502448	3527559	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
ANAMAX?	502568	3527559	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
ANAMAX?	503051	3530778	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
ANAMAX?	503051	3532387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
B01	500128	3518708	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
B01	503896	3533996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
C02	499832	3528364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
COT	507074	3538020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
COT	507919	3538020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	499780	3535697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	499819	3536395	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	500424	3536410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	500435	3537050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	500597	3538020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	501442	3538824	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	501482	3538020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	503252	3538020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
CYPRUS-PIMA	503413	3539629	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1513	499792	3533996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1613	499792	3536929	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1613	502287	3538824	0	50	50	50	50	50	0	0	0	80	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
D1613	503091	3538824	0	50	50	50	50	50	0	0	0	80	80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
D1614	503976	3529973	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1614	505505	3538824	0	20	20	20	20	20	40	40	40	100	120	140	0	80	80	80	80	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0							
D1614	506310	3538824	0	20	20	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
D1713	498987	3532387	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1713	498987	3533192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1713	498987	3536410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1713	499792	3533192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
D1713	500637	3529168	30	30	30	30	30	30	80																																				

**TABLE 1. 1941-1983 Well Location and Pumping Rates
For Transient Simulation (gpm),
Source ADWR Model (Mason and Bota, 2006)**

**TABLE 1. 1941-1983 Well Location and Pumping Rates
For Transient Simulation (gpm),
Source ADWR Model (Mason and Bota, 2006)**

Notes

No pumping specified after 1983.

All pumping units in gallons per minute (qpm)

All pumping units
Ac-Ft = acre feet

GPM = gallons per minute

**TABLE 2. Well Locations and Pumping Rates (gpm)
for Transient Simulation from Various Sources**

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
S-01	623111	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	499930.8	3518792.7	0	0	0	0	0	0	0	0	0	0	0	0	0	1232	946	1682	1565	1331	1445	862	1662	1037	786	1703
S-02	623112	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	499133.3	3517458.8	0	0	0	0	0	0	0	0	0	0	0	0	0	2144	2024	1071	271	2027	1673	1850	2328	1266	2423	1913
S-03	623113	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	498136.2	3516036.9	0	0	0	0	0	0	0	0	0	0	0	0	0	2317	1637	1734	1584	1670	1553	1592	1927	1122	1341	1294
S-04	623114	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	497344.1	3514807.4	0	0	0	0	0	0	0	0	0	0	0	0	0	1820	1433	822	1796	1419	1566	1652	2038	1523	1224	1373
S-05	623115	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	496560.8	3513400.5	0	0	0	0	0	0	0	0	0	0	0	0	0	753	2575	1424	538	151	1403	1830	1834	1106	1308	2718
S-06	623116	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	496371.3	3511991.7	0	0	0	0	0	0	0	0	0	0	0	0	0	2355	791	1458	879	1211	1191	1883	934	1652	2542	
ESP1	623102	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	499969.7	3526448.7	827	827	827	827	659	543	102	277	431	266	33	0	0	0	0	0	0	0	0	0	4	8	12	151
ESP2	623103	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	500241.6	3526924.7	413	413	413	413	330	271	51	138	216	133	17	0	0	0	0	3	38	8	71	173	7	92	172	
ESP3	623104	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	500234.1	3527377.2	827	827	827	827	659	543	102	277	431	266	33	0	0	0	43	1	10	9	56	47	0	0	0	
ESP4	623105	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	499916.8	3526132.8	827	827	827	827	659	543	102	277	431	266	33	0	0	0	1	6	305	71	80	435	782	210	380	
IW-22	200554	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497370.0	3523270.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-23	200555	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497369.2	3522970.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-24	200556	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497371.7	3522633.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-03A	201732	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497366.2	3521722.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-02A	216464	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497469.2	3521338.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-05A	219131	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497526.0	3522758.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-27	219136	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497603.0	3522658.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-28	219137	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497651.0	3523179.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-26	219143	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497652.0	3522307.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-25	219596	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497631.0	3521725.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-29	222865	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	498071.0	3523080.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-11	508235	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497371.0	3523430.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	699	806	441	718	499	471	579	466	458
IW-08	508236	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497369.8	3522207.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	275	347	340	327	431	457	470	297	
IW-10	508237	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497370.4	3523122.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	363	259	331	442	302	570	296	594	780
IW-09	508238	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497368.3	3522020.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	652	430	711	768	421	834	783	524	705
IW-12	545555	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497364.9	3523969.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-13	545556	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497363.8	3524166.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-14	545557	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497367.1	3524373.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-15	545558	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497372.9	3524567.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-16	545559	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497370.7	3524782.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IW-17	545560	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497373.7	3525002.9	0	0	0																					

TABLE 2. Well Locations and Pumping Rates (gpm) for Transient Simulation from Various Sources

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
SC24A	619898	CITY OF TUCSON	Other Wells	507953.1	3538485.6	0	0	0	0	0	0	0	0	0	0	0	0	544	329	335	527	416	444	437	433	271	0	289	
CW10	207982	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500975.1	3523255.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW07	502546	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	499659.8	3528094.1	0	0	0	0	0	0	0	0	0	0	0	511	456	422	284	408	0	0	0	0	0	0	0	0
CW08	543600	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	499798.5	3525661.2	300	300	300	300	300	300	300	300	300	300	300	300	0	0	0	0	0	0	0	0	0	0	0	
CW09	588121	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501072.0	3528740.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NP2	605898	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500909.0	3520050.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	27	25	20	22	21	0	0	0	
NP1	605899	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501003.7	3529211.5	81	81	81	81	81	81	81	81	81	76	63	56	52	32	32	35	41	39	24	0	0	0	0	
CW11	608518	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	502442.4	3530983.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW03	627483	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500063.8	3523810.0	137	137	137	137	137	137	137	137	137	212	175	157	145	142	5	0	1	0	0	1	1	0	0	
CW06	627485	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500891.1	3525794.2	420	420	420	420	420	420	420	420	420	393	326	291	269	276	403	352	348	319	366	311	352	336	388	
11caa	801179	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501185.8	3526788.3	0	0	0	0	0	0	0	0	0	0	0	0	1	55	36	69	38	46	54	53	46	42	58	
CW12_future	999001	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500249.2	3523079.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW06r_future	999002	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501122.7	3526046.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW09r_future	999003	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501233.3	3528673.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ContSD39	601769	CONTINENTAL SCHOOL	Other Wells	504049.2	3522941.5	0	0	0	0	0	0	0	0	0	0	0	0	0	22	10	0	0	11	9	7	7	0	0	
CSD39	638581	CONTINENTAL SCHOOL	Other Wells	504049.2	3522941.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9	0	0	0	0	0	8	7	
CCofGV	501760	COUNTRY CLUB OF GREEN VALLEY	Other Wells	501635.4	3527876.2	484	484	484	484	484	484	484	484	484	453	375	335	310	280	375	336	339	389	324	396	379	364	388	
CW05	627484	COUNTRY CLUB OF GREEN VALLEY	Other Wells	501234.3	3522496.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stoeckel	801401	DORIS L & GEORGE M STOECKEL	Other Wells	496059.1	3518416.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0		
Olivas	801154	E OLIVAS	Other Wells	503396.2	3531212.6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	10	6	3	6	4	3	2	
E10A	86931	FICO	Other Wells	502452.3	3523995.4	43	43	43	43	43	43	43	43	43	40	33	30	27	27	38	28	0	0	0	0	0	0	0	0
201058	201058	FICO	Other Wells	506979.7	3532009.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S-19	221271	FICO	Other Wells	504841.1	3532023.4	0	0	0	0	0	0	0	0	0	0	0	0	0	641	1076	1113	796	656	876	846	886	867	757	854
S-44	225635	FICO	Other Wells	503858.6	3530810.6	0	0	0	0	351	329	197	249	288	0	0	0	0	830	1062	1134	892	747	818	936	976	882	796	867
S-52A	534922	FICO	Other Wells	504806.1	3534852.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	55	
FICO643409	543409	FICO	Other Wells	500252.3	3521313.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
S-12	623981	FICO	Other Wells	505183.0	3535659.7	0	0	0	0	0	0	0	0	0	0	0	0	0	660	805	890	706	636	721	711	661	686	579	619
S-22	623983	FICO	Other Wells	503659.8	3531620.7	0	0	0	0	0	0	0	0	0	0	0	0	0	432	433	458	308	276	273	270	351	322	501	403
S-25	623985	FICO	Other Wells	503037.2	3533247.8	0	0	0	0	0	0	0	0	0	0	0	0	0	518	815	906	809	880	872	633	784	880	204	817
S-29	623986	FICO	Other Wells	503806.1	3535670.6	0	0	0	0	0	0	0	0	0	0	0	0	0	308	376	361	299	296	235	255	347	310	274	222
S-33	623988	FICO	Other Wells	503859.4	3532226.2	583	583	583	583	583	583	583	583	583	630	522	466	431	433	458	308	276	270	350	322	500	403	403	403
FICO623990	623990	FICO	Other Wells	505931.2	3536660.8	0	0	0	0	0</																			

**TABLE 2. Well Locations and Pumping Rates (gpm)
for Transient Simulation from Various Sources**

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
E16	624023	FICO	Other Wells	503328.0	3525726.6	701	701	701	701	701	701	701	701	701	656	544	485	449	573	624	404	394	436	464	471	456	404	411	
W9	624024	FICO	Other Wells	501271.2	3524132.2	856	856	856	856	856	856	856	856	856	801	664	593	549	616	612	558	411	607	614	659	604	468	684	
W11	624025	FICO	Other Wells	499969.2	3520085.4	13	13	13	13	13	13	13	13	13	12	10	9	8	186	690	744	501	548	494	524	486	549	767	
W12	624026	FICO	Other Wells	500156.1	3521299.5	920	920	920	920	920	920	920	920	862	714	637	590	600	744	627	545	611	643	758	736	746	0		
NP2	624028	FICO	Other Wells	500929.4	3519540.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FICO624042	624042	FICO	Other Wells	502790.3	3531624.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
608517	608517	FREEPORT-MCMORAN SIERRITA INC	Other Wells	497370.0	3529040.0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	29	0	0	0	0	0	0	0	179	103
GVINV_625711	625711	GREEN VALLEY INVESTORS	Other Wells	501567.9	3526181.4	689	689	689	689	689	689	689	689	689	646	535	477	442	445	445	448	240	266	235	192	205	241	276	
GVINV_625712	625712	GREEN VALLEY INVESTORS	Other Wells	501600.3	3526400.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	199	176	244	229	195	146
GVDWID-Canoa	586729	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	497324.8	3516610.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GV1	603428	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	499812.9	3522254.2	663	663	663	663	663	663	663	663	663	621	514	459	425	352	442	471	454	663	498	693	666	694	570	
GV2	603429	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	499786.0	3521650.0	355	355	355	355	355	355	355	355	355	332	275	246	228	406	478	434	458	738	689	556	571	559	0	
603430	603430	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	497134.1	3519902.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	781
603504	603504	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	496754.3	3518699.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	1	1	0	
GVDWID-SI	208825	GREEN VALLEY WATER COMPANY	Other Wells	497227.2	3519509.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HavenGC	515867	HAVEN GOLF ASSOC	Other Wells	501609.0	3526344.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Spafford_Jack	602952	J C SPAFFORD	Other Wells	495919.8	3518582.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	0
LosArboles	610277	JERO INVESTORS	Other Wells	502467.3	3533753.1	0	0	0	0	0	0	0	0	0	0	0	0	0	19	164	18	23	25	28	0	0	0	0	
Duckett	800365	KEITH DUCKETT	Other Wells	508809.0	3533012.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ST7	566940	LAS QUINTAS SERENAS WATER CO	Other Wells	500778.4	3531035.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ST6	608530	LAS QUINTAS SERENAS WATER CO	Other Wells	501247.7	3531352.5	0	0	0	0	73	73	73	73	73	68	56	50	47	60	0	50	61	92	78	81	92	36		
ST5	608531	LAS QUINTAS SERENAS WATER CO	Other Wells	500619.0	3531941.2	0	0	0	0	0	0	87	87	87	81	67	60	56	58	0	67	60	47	46	55	43	56	142	
Jurs	801442	Laurie Jurs	Other Wells	496055.2	3519511.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	5	5	5	20	3	0	
LosArboles	524178	LOS ARBOLES COMMUNITY 2 LLC	Other Wells	502572.8	3533448.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	32	36	42	496	
Poole	801975	M POOLE	Other Wells	495659.4	3519507.7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	2	2	1	1	2	2	
Madera_Highlands	624019	MADERA HIGHLANDS OWNERS ASSOC	Other Wells	503284.5	3526162.3	0	0	0	0	0	0	0	0	0	0	0	0	0	93	101	132	96	60	59	184	190	232	221	
OcotilloCommunity	801309	OCTILLO COMMUNITY	Other Wells	498963.3	3511411.9	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	1	2	6	5	4	8	5	
PimaCoCanoaRanch	623128	PIMA CO	Other Wells	498467.3	3517655.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
801075	801075	PIMA CO	Other Wells	503396.2	3531617.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Sahuarita2	534039	PIMA CO PARKS & RECREATION DEPT	Other Wells	502952.7	3538271.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10
203265	203265	PIMA CO SOLID WASTE MANAGEMENT	Other Wells	500739.2	3534868.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAH-2B	211809	PIMA CO SOLID WASTE MANAGEMENT	Other Wells	500959.0	3534907.0	0	0																						

**TABLE 2. Well Locations and Pumping Rates (gpm)
for Transient Simulation from Various Sources**

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
SWC5_future	999009	SAHUARITA WATER COMPANY	Other Wells	501133.8	3534400.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SWC6_future	999010	SAHUARITA WATER COMPANY	Other Wells	501558.4	3537343.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rosemont1	214277	SANRITA PROPERTIES LLC	Other Wells	505997.2	3535073.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
StateLand	999006	STATE LAND	Other Wells	506015.0	3533579.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Saville_T	601910	THOMAS SAVILLE	Other Wells	509870.7	3532610.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TorresBlancas	543409	TORRES BLANCAS HOLDINGS LLC	Other Wells	502409.0	3521313.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sahuarita	611142	TOWN OF SAHUARITA	Other Wells	506745.1	3536661.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lamb	628534	V G LAMB	Other Wells	505339.8	3535044.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	1	1	1	
ValVerde	803064	VAL VERDE INC	Other Wells	502385.6	3531829.9	0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	0	4	3	4	5	4	4	0	
VVDN_WC	602019	VALLE VERDE DEL NORTE WATER COMPANY	Other Wells	501673.9	3532142.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	28	0	21	32	25	35	32	37	47
Cox	604432	W R COX	Other Wells	508795.2	3534015.3	0	0	0	0	0	0	0	0	0	0	0	0	4	3	2	3	2	2	0	2	2	7	3	
Cox	627079	W R COX	Other Wells	508795.2	3534015.3	0	0	0	0	0	0	0	0	0	0	0	0	3	4	2	5	5	3	0	3	6	0	0	
TwinButtes	999017		Other Wells	500455.0	3530824.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I-13	87309	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	498195.5	3528504.6	0	0	0	1068	1068	1068	1068	1130	1130	1130	1130	1297	972	153	1	95	885	816	1156	1061	877	624		
RT1	504946	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	499810.8	3530971.1	0	0	0	0	0	0	0	0	0	0	538	1686	2230	2293	58	0	0	0	0	0	0	0	0	
I-12	608523	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	498110.0	3528580.0	0	0	0	0	1068	1068	1068	1068	1130	1130	1130	1130	925	865	10	36	127	597	1005	976	960	946	866	
I-11	608524	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497919.4	3528485.3	0	0	0	0	1068	1068	1068	1068	1130	1130	1130	1130	7	0	0	0	0	0	0	0	0	0		
I-10	608525	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497797.9	3528468.7	0	0	0	0	1068	1068	1068	1068	1130	1130	1130	1130	428	336	2	0	0	28	685	869	750	1080	815	
I-09	608526	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497823.0	3528672.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	109	0	0	0	50	
I-07	608528	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497807.0	3528530.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	621	4	0	0	589	846	666	740	338	188
			TOTAL GPM	20,688	20,688	20,688	20,968	29,371	26,855	25,648	24,147	27,559	29,378	28,469	24,443	21,504	37,657	43,217	37,899	34,548	32,747	38,032	37,119	43,665	39,718	38,617	44,019		
Source:			TOTAL Ac-Ft	33,393	33,393	33,393	33,845	47,408	43,347	41,400	38,976	44,483	47,419	45,952	39,453	34,710	60,782	69,757	61,173	55,765	52,857	61,388	59,915	70,481	64,110	62,333	71,051		

ADWR Wells55 Registry Database Ac-Ft = Acre Feet
ELMA 2007 GPM = gallons per minute
Basin Wells Reports, 2011-2013
FMI Sierrita ADWR Annual Reports
ADWR Annual Reports
Notes:
No pumping specified from 1941 to 1970.
All pumping units in gallons per minute (gpm)

**TABLE 2. Well Locations and Pumping Rates (gpm)
for Transient Simulation from Various Sources**

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
S-01	623111	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	499930.8	3518792.7	1001	1407	1775	668	748	1582	1349	963	1739	1164	1882	1443	1431	1867	1414	928	1355	1396	1875	751	485	329	390	761	
S-02	623112	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	499133.3	3517458.8	2156	2568	1971	892	607	1287	1209	600	1671	1326	1408	981	1515	1609	1781	1510	2004	1748	2192	856	553	280	361	724	
S-03	623113	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	498136.2	3516036.9	1250	1808	1069	1191	1308	2146	1796	83	657	1992	1494	1640	1803	1853	1453	2269	2325	2355	2461	1211	634	346	486	838	
S-04	623114	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	497344.1	3514807.4	1031	975	1533	1582	1946	2404	2199	883	2762	2442	2398	2232	2067	2451	2222	2745	2711	2320	2027	872	386	319	43	2	
S-05	623115	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	496560.8	3513400.5	2566	2475	2136	2266	2646	1866	2117	1151	4	2641	2791	2840	2632	2482	2258	2385	2377	2234	2110	1074	624	349	401	638	
S-06	623116	FREEPORT-MCMORAN SIERRITA INC	Canoa Wells	496371.3	3511991.7	3276	2953	2479	3144	3036	1896	2584	3126	1167	1457	2268	2593	2370	2133	1916	2403	2050	1884	1944	963	751	298	323	255	
ESP1	623102	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	499969.7	3526448.7	13	20	0	0	0	0	0	0	0	21	272	173	9	0	14	1	0	0	0	0	0	0	0	0	
ESP2	623103	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	500241.6	3526924.7	22	1	0	0	0	0	1	0	8	143	308	367	43	0	2	1	0	0	0	0	0	0	0	0	
ESP3	623104	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	500234.1	3527377.2	0	0	0	0	0	0	0	1	0	44	259	598	96	0	17	0	0	0	0	0	0	0	0	0	
ESP4	623105	FREEPORT-MCMORAN SIERRITA INC	Esperanza Wells	499916.8	3526132.8	1	14	1	5	0	0	1	0	12	45	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
IW-22	200554	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497370.0	3523270.0	0	0	0	0	0	0	0	0	0	0	262	479	337	351	366	353	324	306	329	280	171	219	140	4	
IW-23	200555	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497369.2	3522970.8	0	0	0	0	0	0	0	0	0	0	136	203	193	164	167	135	159	133	128	137	79	0	0	0	0
IW-24	200556	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497371.7	3522633.6	0	0	0	0	0	0	0	0	0	0	241	404	77	142	100	88	105	69	61	56	73	90	42	0	0
IW-03A	201732	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497366.2	3521722.6	0	0	0	0	0	0	0	0	0	344	704	397	722	650	512	603	559	481	579	436	399	30	178	221	
IW-02A	216464	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497469.2	3521338.0	0	0	0	0	0	0	0	0	0	0	0	0	0	409	450	348	358	335	239	226	184	148	0	106	
IW-05A	219131	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497526.0	3522758.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	63	66	40	18	0	0	0	0	
IW-27	219136	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497603.0	3522658.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IW-28	219137	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497651.0	3523179.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IW-26	219143	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497652.0	3522307.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IW-25	219596	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497631.0	3521725.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IW-29	222865	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	498071.0	3523080.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IW-11	508235	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497371.0	3523430.0	632	65	365	58	165	494	5	839	495	590	538	278	377	363	326	292	270	386	343	119	142	127	139		
IW-08	508236	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497369.8	3522207.6	210	108	0	0	0	2	1	5	584	971	709	349	440	423	430	425	413	257	383	225	266	192	196	156	
IW-10	508237	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497370.4	3523122.2	728	205	295	563	672	252	0	479	178	115	352	291	353	350	346	343	330	304	276	236	194	59	90	14	
IW-09	508238	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497368.3	3522020.5	580	497	276	216	125	318	231	758	116	251	74	261	214	266	252	234	200	232	183	104	0	0	12	136	
IW-12	545555	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497364.9	3523969.9	0	45	200	305	298	338	126	64	214	138	79	135	166	154	157	151	123	123	131	79	86	100	111		
IW-13	545556	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497363.8	3524166.7	0	17	58	23	64	0	0	13	72	67	22	33	26	25	25	23	23	22	6	0	0	0	0		
IW-14	545557	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497367.1	3524373.1	0	30	188	178	137	156	89	129	0	84	94	88	89	78	161	64	52	69	38	45	32	14	0		
IW-15	545558	FREEPORT-MCMORAN SIERRITA INC	Interceptor Wells	497372.9	3524567.3	0	15	112	92</																					

**TABLE 2. Well Locations and Pumping Rates (gpm)
for Transient Simulation from Various Sources**

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
SC24A	619898	CITY OF TUCSON	Other Wells	507953.1	3538485.6	402	386	399	402	198	432	464	396	466	430	415	0	439	267	0	0	0	0	0	0	0	0	0		
CW10	207982	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500975.1	3523255.4	0	0	0	0	0	0	0	0	0	0	0	0	769	566	630	615	596	412	655	522	525	504	497	497	
CW07	502546	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	499659.8	3528094.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW08	543600	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	499798.5	3525661.2	9	427	453	516	623	676	527	722	713	426	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
CW09	588121	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501072.0	3528740.8	0	0	0	0	0	0	0	0	202	396	551	304	353	227	328	389	463	388	203	415	321	495	617	617	
NP2	605898	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500909.0	3520050.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NP1	605899	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501003.7	3529211.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW11	608518	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	502442.4	3530983.7	0	0	0	0	0	0	0	0	0	0	0	0	380	671	656	494	475	711	654	526	556	444	370	370	
CW03	627483	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500063.8	3523810.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW06	627485	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500891.1	3525794.2	439	248	371	341	102	326	401	418	221	295	252	183	156	205	115	93	23	10	2	2	0	1	1	1	
11caa	801179	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501185.8	3526788.3	46	41	35	42	31	28	37	48	36	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CW12_future	999001	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	500249.2	3523079.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW06r_future	999002	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501122.7	3526046.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CW09r_future	999003	COMMUNITY WATER CO OF GREEN VALLEY	Other Wells	501233.3	3528673.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ContSD39	601769	CONTINENTAL SCHOOL	Other Wells	504049.2	3522941.5	0	0	0	6	17	1	2	2	2	2	3	0	0	2	2	2	3	3	0	1	0	0	0	0	
CSD39	638581	CONTINENTAL SCHOOL	Other Wells	504049.2	3522941.5	7	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
CCofGV	501760	COUNTRY CLUB OF GREEN VALLEY	Other Wells	501635.4	3527876.2	440	453	407	378	376	353	340	393	371	289	117	54	121	82	159	211	167	159	261	140	105	73	44	44	
CW05	627484	COUNTRY CLUB OF GREEN VALLEY	Other Wells	501234.3	3522496.6	0	0	0	0	0	0	0	0	0	0	0	0	0	302	341	279	238	251	232	130	130	382	279	361	
Stoeckel	801401	DORIS L & GEORGE M STOECKEL	Other Wells	496059.1	3518416.3	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	
Olivas	801154	E OLIVAS	Other Wells	503396.2	3531212.6	0	0	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	
E10A	86931	FICO	Other Wells	502452.3	3523995.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	
201058	201058	FICO	Other Wells	506979.7	3532009.0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	5	6	6	9	14	19	21	24	27	
S-19	221271	FICO	Other Wells	504841.1	3532023.4	658	866	841	659	785	771	736	795	831	914	846	937	879	849	805	484	527	979	857	786	724	738	858	858	
S-44	225635	FICO	Other Wells	503858.6	3530810.6	894	938	980	889	895	1179	985	1032	1028	1174	1024	1162	1048	1044	1100	931	1005	889	863	712	555	0	773	773	
S-52A	534922	FICO	Other Wells	504806.1	3534852.5	45	45	51	65	67	74	66	70	65	66	31	35	36	33	28	27	0	3	16	2	0	0	0	0	0
FICO6239409	543409	FICO	Other Wells	500252.3	3521313.0	258	492	350	322	308	306	281	284	251	255	330	330	0	0	0	0	0	0	0	0	0	0	0	0	0
S-12	623981	FICO	Other Wells	505183.0	3535659.7	590	677	591	535	642	663	639	624	580	603	779	870	930	838	819	764	799	809	854	732	564	631	691	691	
S-22	623983	FICO	Other Wells	503659.8	3531620.7	351	301	288	221	76	305	319	262	373	448	388	466	425	327	425	393	386	278	349	306	292	185	197	197	
S-25	623985	FICO	Other Wells	503037.2	3533247.8	807	754	778	704	683	874	749	795	776	700	828	943	1007	883	801	748	581	742	694	640	550	756	833	833	
S-29	623986	FICO	Other Wells	503806.1	3535670.6	233	200	242	204	207	391	305	317	377	363	407	456	435	470	358	382	395	413	394	346	376	409	409		

**TABLE 2. Well Locations and Pumping Rates (gpm)
for Transient Simulation from Various Sources**

Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
E16	624023	FICO	Other Wells	503328.0	3525726.6	436	353	430	388	423	387	399	395	466	469	427	429	541	568	462	349	494	354	366	327	312	328	329	329
W9	624024	FICO	Other Wells	501271.2	3524132.2	692	555	718	569	681	506	544	452	538	530	587	520	568	574	593	410	370	366	253	305	416	276	462	462
W11	624025	FICO	Other Wells	499969.2	3520085.4	541	400	487	407	462	568	500	494	177	198	186	181	170	177	181	165	171	159	174	160	159	175	147	147
W12	624026	FICO	Other Wells	500156.1	3521299.5	599	561	690	461	568	557	609	602	717	669	698	575	734	713	778	651	696	723	665	524	532	572	634	634
NP2	624028	FICO	Other Wells	500929.4	3519540.5	1	1	1	1	1	2	4	0	6	0	4	6	6	7	0	0	9	9	10	9	9	10	0	0
FICO624042	624042	FICO	Other Wells	502790.3	3531624.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	608517	FREEPORT-MCMORAN SIERRITA INC	Other Wells	497370.0	3529040.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GVINV_625711	625711	GREEN VALLEY INVESTORS	Other Wells	501567.9	3526181.4	220	255	232	223	274	260	237	225	220	193	204	198	364	341	476	434	444	408	400	401	385	397	380	380
GVINV_625712	625712	GREEN VALLEY INVESTORS	Other Wells	501600.3	3526400.2	192	198	184	163	183	181	160	198	191	182	192	152	140	161	27	68	58	66	80	100	116	102	119	119
GVDWID-Canoa	586729	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	497324.8	3516610.4	0	0	0	0	0	0	0	0	0	0	0	0	0	304	321	305	252	282	227	176	377	221	221	221
GV1	603428	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	499812.9	3522254.2	753	660	840	504	805	610	612	614	793	793	729	729	690	643	621	610	612	577	565	536	525	525	525	525
GV2	603429	GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	499786.0	3521650.0	671	798	595	879	658	767	799	938	753	753	780	780	313	302	308	281	294	274	289	237	139	139	139	
	603430	603430 GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	497134.1	3519902.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	603504	603504 GREEN VALLEY MUNICIPAL PROPERTY CORP	Other Wells	496754.3	3518699.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GVDWID-SI	208825	GREEN VALLEY WATER COMPANY	Other Wells	497227.2	3519509.9	0	0	0	0	0	0	0	0	0	0	0	0	0	555	558	520	463	515	310	289	137	424	424	424
HavenGC	515867	HAVEN GOLF ASSOC	Other Wells	501609.0	3526344.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spafford_Jack	602952	J C SPAFFORD	Other Wells	495919.8	3518582.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LosArboles	610277	JERO INVESTORS	Other Wells	502467.3	3533753.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Duckett	800365	KEITH DUCKETT	Other Wells	508809.0	3533012.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	
ST7	566940	LAS QUINTAS SERENAS WATER CO	Other Wells	500778.4	3531035.6	0	0	0	10	78	107	150	86	240	196	243	329	316	260	310	292	315	289	284	274	255	268	268	
ST6	608530	LAS QUINTAS SERENAS WATER CO	Other Wells	501247.7	3531352.5	31	52	120	100	43	64	26	56	24	23	19	19	12	19	13	1	0	0	1	1	1	1	5	5
ST5	608531	LAS QUINTAS SERENAS WATER CO	Other Wells	500619.0	3531941.2	157	156	93	113	147	103	93	165	36	80	54	17	8	43	15	15	3	5	30	2	4	0	3	3
Jurs	801442	LAURIE JURS	Other Wells	496055.2	3519511.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LosArboles	524178	LOS ARBOLES COMMUNITY 2 LLC	Other Wells	502572.8	3533448.4	45	44	38	32	31	32	30	32	33	32	28	29	37	7	33	10	21	20	22	24	29	29	18	18
Poole	801975	M POOLE	Other Wells	495659.4	3519507.7	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Madera_Highlands	624019	MADERA HIGHLANDS OWNERS ASSOC	Other Wells	503284.5	3526162.3	243	229	249	176	171	164	183	144	0	0	0	0	38	0	42	39	38	39	18	0	0	0	0	
OcotilloCommunity	801309	OCTILLO COMMUNITY	Other Wells	498963.3	3511411.9	12	12	20	22	8	8	11	14	10	11	11	13	12	13	11	11	14	12	10	9	12	12	12	
PimaCoCanoaRanch	623128	PIMA CO	Other Wells	498467.3	3517655.0	0	0	0	0	0	0	12	9	0	0	0	0	0	0	0	0	0	0	19	4	0	0	4	5
	801075	801075 PIMA CO	Other Wells	503396.2	3531617.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sahuarita2	534039	PIMA CO PARKS & RECREATION DEPT	Other Wells	502952.7	3538271.6	10	9	10	7	8	8	19	20	15	17	17	21	236	248	286	186	15	17	0	32	32	30	30	

**TABLE 2. Well Locations and Pumping Rates (gpm)
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Well Name	Reg_ID	OWNER	Well Category	UTM East	UTM North	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
SWC5_future	999009	SAHuarita Water Company	Other Wells	501133.8	3534400.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SWC6_future	999010	SAHuarita Water Company	Other Wells	501558.4	3537343.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rosemont1	214277	SANRITA PROPERTIES LLC	Other Wells	505997.2	3535073.4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
StateLand	999006	STATE LAND	Other Wells	506015.0	3533579.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Saville_T	601910	THOMAS SAVILLE	Other Wells	509870.7	3532610.1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	
TorresBlancas	543409	TORRES BLANCAS HOLDINGS LLC	Other Wells	502409.0	3521313.0	0	0	0	0	0	0	0	0	0	0	0	0	0	332	373	349	361	309	328	339	344	359	335	
Sahuarita	611142	TOWN OF SAHuarita	Other Wells	506745.1	3536661.6	0	0	0	0	0	0	85	183	353	211	311	181	235	247	285	186	171	166	82	104	76	84	94	
Lamb	628534	V G LAMB	Other Wells	505339.8	3535044.3	5	5	5	1	2	1	1	2	1	1	1	1	0	4	4	4	4	4	4	4	4	4		
ValVerde	803064	VAL VERDE INC	Other Wells	502385.6	3531829.9	3	6	0	6	5	6	6	5	5	4	5	3	19	4	1	2	1	1	1	1	1	1		
VVDN_WC	602019	VALLE VERDE DEL NORTE WATER COMPANY	Other Wells	501673.9	3532142.3	43	47	53	50	42	45	43	51	48	47	44	41	38	41	42	41	41	43	41	41	38	38	39	
Cox	604432	W R COX	Other Wells	508795.2	3534015.3	3	2	3	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Cox	627079	W R COX	Other Wells	508795.2	3534015.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TwinButtes	999017		Other Wells	500455.0	3530824.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I-13	87309	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	498195.5	3528504.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
RT1	504946	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	499810.8	3530971.1	796	1608	1747	1715	1609	1092	1494	1090	1069	0	0	0	43	75	36	93	54	134	47	64	90	19	24	
I-12	608523	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	498110.0	3528580.0	844	0	758	338	469	138	5	54	210	0	0	0	0	0	0	0	0	0	0	0	0	0		
I-11	608524	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497919.4	3528485.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I-10	608525	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497797.9	3528468.7	802	919	173	1502	389	690	816	674	552	0	0	0	30	10	6	0	0	0	0	0	0	0		
I-09	608526	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497823.0	3528672.2	145	73	11	1	23	28	63	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I-07	608528	FREEPORT-MCMORAN SIERRITA INC	Twin Buttes Wells	497807.0	3528530.0	671	667	517	347	171	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			TOTAL GPM			42,824	41,702	41,282	39,018	39,819	41,459	39,296	35,480	38,143	42,114	42,003	41,371	45,557	45,224	43,368	40,117	40,736	40,592	40,854	39,620	35,469	32,806	35,169	34,877
			TOTAL Ac-Ft			69,122	67,311	66,633	62,980	64,272	66,920	63,428	57,269	61,568	67,976	67,797	66,777	73,534	72,997	70,001	64,754	65,753	65,520	65,942	63,952	57,251	52,953	56,767	56,296

Source:
ADWR Wells55 Registry Database Ac-Ft = Acre Feet
ELMA 2007 GPM = gallons per minute

Basin Wells Reports, 2011-2013

FMI Sierrita ADWR Annual Reports

ADWR Annual Reports

Notes:

No pumping specified from 1941 to 1970.

All pumping units in gallons per minute (gpm)

TABLE 3
2018 PUMPING RATES FOR PREDICTIVE SIMULATION

WELL NAME	ADWR REGISTRY NUMBER	2018 TOTAL GALLONS PUMPED	2018 TOTAL ACRE-FEET	2018 AVERAGE GPM
FFS-1	221662	293,635,500.00	901.1	559
FFS-2	221663	281,944,000.00	865.3	536
FFS-3	221664	75,529,500.00	231.8	144
FFS-4	221665	29,804,000.00	91.5	57
FFS-5	221666	220,736,125.00	677.4	420
FFS-6	221667	169,916,750.00	521.5	323
FFS WELL TOTAL			3289	2039
IW-01	623129	55,427,625.00	170.10	105
IW-02A	216464	55,793,437.50	171.22	106
IW-03A	201732	116,281,875.00	356.86	221
IW-04	623132	20,868,000.00	64.04	40
IW-05A	623133	-	0.00	0
IW-06A	545565	-	0.00	0
IW-08	508238	81,907,937.50	251.37	156
IW-09	508236	71,202,031.25	218.51	135
IW-10	508237	7,181,000.00	22.04	14
IW-11	508235	72,949,000.00	223.87	139
IW-12	545555	15,176,563.00	46.58	28.87
IW-13	545556	-	0.00	0
IW-14	545557	-	0.00	0
IW-15	545558	2,935,000.00	9.01	6
IW-16	545559	-	0.00	0
IW-17	545560	-	0.00	0
IW-18	545561	-	0.00	0
IW-19	545562	41,524,000.00	127.43	79
IW-20	545563	-	0.00	0
IW-21	545564	-	0.00	0
IW-22	200554	2,266,000.00	6.95	4
IW-23	200555	-	0.00	0
IW-24	200556	-	0.00	0
IW-25	219596	158,811,125.00	487.37	302
IW-26	219143	84,513,312.50	259.36	161
IW-27	219136	89,737,781.25	275.40	171
IW-28	219137	76,374,125.00	234.38	145
IW-29	999019	221,275,687.50	679.07	421
IW WELL TOTAL			3604	2234
PS-1	220861	292,476,000.00	898	556
PS-2	220862	291,855,125.00	896	555
PS-3	220863	376,228,375.00	1155	716
PS-4	220864	517,945,500.00	1590	985
PS WELL TOTAL			4537	2813
MC-1	221660	367,216,000.00	1127	699
MC-2	221761	273,822,562.50	840	521
MC-3	221661	202,172,687.50	620	385
MC-4	220842	204,825,375.00	629	390
MC WELL TOTAL			3216	1994
TOTAL PUMPING			14646	9080

Notes:

ADWR = Arizona Department of Water Resources

IW = Interceptor Wells

FFS = Focused Feasibility Study

PS = Plume Stabilization

MC = Mass Capture

GPM = gallons per minute