Annual Groundwater Monitoring Report for 2024

Mitigation Order on Consent Docket No. P-121-07
Cochise County, Arizona

Prepared for

Freeport Minerals Corporation
Copper Queen Branch
Bisbee, Arizona

Prepared by

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Certification

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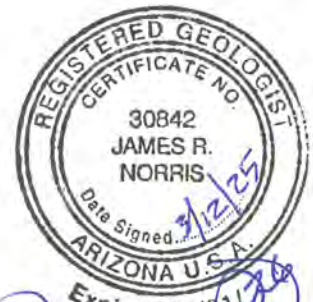

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1. Introduction

This annual report provides the results of groundwater monitoring activities conducted in calendar year 2024 for the Mitigation Plan (Clear Creek Associates, 2015a) submitted to Arizona Department of Environmental Quality (ADEQ) in March 2015. The Mitigation Plan was submitted pursuant to the Mitigation Order on Consent Docket No. P-121-07 (ADEQ, 2007) between ADEQ and Freeport Minerals Corporation Copper Queen Branch (CQB). ADEQ provided a conditional approval of the annual groundwater monitoring and groundwater monitoring report provisions of the Mitigation Plan (ADEQ, 2015).

1.1 Mitigation Plan

The Mitigation Plan describes the process being followed as the mitigation action[1] for a groundwater plume of sulfate in the vicinity of the Concentrator Tailing Storage Area near Naco, south of Bisbee, Arizona (Figure 1). The mitigation action addresses the potential for existing drinking water supplies to be affected[2] by sulfate. The mitigation action being implemented by CQB is Alternative 1C, which was identified as the recommended alternative by a Feasibility Study (Clear Creek Associates, 2014a) submitted to and approved by ADEQ (ADEQ, 2014). The mitigation action contains the following components:

- a water supply study to identify a potential alternate groundwater source for public water supply mitigation, if needed,
- expanded groundwater monitoring to track plume migration in the vicinity of public drinking water supplies in the Naco area and to document sulfate concentrations at the leading edge of the plume for the purposes of establishing sentinel wells with action levels that, if exceeded, would trigger a contingent mitigation action at a public supply, if needed,

[1] The term mitigation action encompasses all actions implemented under the Mitigation Plan. If a contingent mitigation measure is implemented or the implemented measures are changed due to adaptive management, then the term mitigation action encompasses the contingency or change.
[2] The terms "affect" and "affected", with reference to a drinking water supply, are defined for the purpose of the Mitigation Plan as indicating a water supply with an average sulfate concentration exceeding 250 milligrams per liter due to sulfate originating from the Concentrator Tailing Storage Area.

- long-term plume monitoring to monitor sulfate at public and private drinking water supplies, and to describe the groundwater flow system and large scale geometry of the plume over time, and
- annual review of Arizona Department of Water Resources (ADWR) well registry records to identify new drinking water supply wells within a mile of the plume.

The water supply study was completed and reported to ADEQ in 2016 (Clear Creek Associates, 2016). The expanded groundwater monitoring, long-term plume monitoring, and review of ADWR well registry records are ongoing programs.

1.2 Scope of Annual Groundwater Monitoring

The Mitigation Plan contains a Schedule for Long Term Plume Monitoring which identifies the wells and schedule for groundwater monitoring. The schedule is reviewed periodically and updated for the mitigation performance reviews prepared pursuant to the Mitigation Plan. The current schedule for monitoring is included in Table 1. First quarter monitoring was completed based on the schedule and updates since the 2018 performance review (Clear Creek, 2019a). Second, third, and fourth quarter monitoring were completed based on the schedule in the performance review for 2023 which was submitted in April, 2024 (Clear Creek Associates, 2024).

Table 2 summarizes the status of sampling in 2024. Figure 2 is a geologic map (Hayes and Landis, 1964) showing the monitoring area and identifying wells where the data reported herein have been collected. The well locations are identified by name on Figures 3 and 4.

Groundwater sampling and water level measurement for long-term plume monitoring were conducted by CQB and Clear Creek Associates personnel. The groundwater sampling and analysis methods for groundwater monitoring under the Mitigation Order are described in the Quality Assurance Project Plan contained in Appendix F of the Work Plan (Hydro Geo Chem [HGC], Inc., 2008a). Dissolved sulfate is the only constituent monitored. Appendices A and B contain field data forms and laboratory reports, respectively, for samples collected in 2024.

The Mitigation Plan describes the scope of the annual groundwater monitoring report as follows:

> "Groundwater monitoring reports will provide the water quality and water level data collected under the expanded groundwater monitoring … and long term plume monitoring … programs. The results of well drilling, installation, testing, and monitoring for expanded groundwater monitoring will be incorporated into the

> groundwater monitoring report as the wells are installed and data become available. The annual ADWR well records review … will also be provided in the groundwater monitoring report. The reporting period will be a calendar year (i.e., January 1 through December 31). The groundwater monitoring report will be submitted by March 31 of the year following the reporting period."

The primary objective of this annual groundwater monitoring report is to provide the water quality and water level data collected in 2024 for the long-term plume monitoring and expanded groundwater monitoring programs. As described by the Mitigation Plan, the annual groundwater monitoring reports transmit data to ADEQ with little interpretation. Analysis and evaluation of the monitoring data are provided in the mitigation performance review reports submitted to ADEQ under the Mitigation Plan (e.g. Clear Creek Associates, 2024).

1.3 Sources of Groundwater Monitoring Data in 2024

1.3.1 Long-Term Plume Monitoring

The long-term plume monitoring program monitors the sulfate concentration at public and private drinking water supplies, and monitors water levels and sulfate levels at a site-wide array of monitoring wells. The objectives of long-term plume monitoring are:

- determination of the sulfate concentration in drinking water supplies within one mile of the outer edge of the sulfate plume (i.e., the 250 mg/L sulfate concentration contour),
- identification of the plume margin for ongoing delineation of the plume extent and assessment of plume migration (plume edge monitoring),
- documentation of the sulfate concentrations in the plume and areas distal to the plume to monitor long-term concentration trends (regional monitoring), and
- measurement of water levels in the vicinity of the plume to document potentiometric conditions.

1.3.2 Expanded Groundwater Monitoring Program

The expanded groundwater monitoring program monitors the position of the plume in the immediate vicinity of the existing Arizona Water Company and Naco Water Company public

drinking water supplies near Naco. Well installation and testing for the expanded groundwater monitoring program were completed and reported to ADEQ in 2015 (Clear Creek Associates, 2015b).

Basin fill wells installed for the expanded groundwater monitoring program are BMO-2014-1BL, BMO-2014-1BU, BMO-2014-2BL, BMO-2014-2BU, BMO-2014-3BL, BMO-2014-3BU, BMO-2014-4B, BMO-2014-4BL, BMO-2015-1B, BMO-2015-1BL, BMO-2015-2B, and BMO 2015-2BL (Figure 4). These wells are sampled semi-annually. The results of sulfate and water level monitoring at the expanded groundwater monitoring program wells are included in this report.

1.4 ADWR Well Records Review

The ADWR well records review is conducted annually to identify new well registry records for wells within one mile of the edge of the plume. If a new drinking water supply well is identified within a mile of the plume, CQB offers to sample the well and adds it to the long-term plume monitoring schedule, if acceptable to the well owner. The review of ADWR well registry records is reported in the annual groundwater monitoring report to maintain a current list of drinking water supply wells in the vicinity of the plume for monitoring under the Mitigation Plan.

2. Groundwater Monitoring Results

2.1 Sulfate Data

Sulfate analytical results for 2024 are provided in Table 3. Historical analytical data collected for the Mitigation Order sampling are compiled in Appendix C. Sulfate concentration data collected prior to the Mitigation Order are summarized and evaluated in the Aquifer Characterization Report (Clear Creek Associates, 2010).

Water quality samples were collected from wells site-wide in the first and third quarters of 2024 (Table 1). Figures 5 and 6 are sulfate concentration contour maps for the first and third quarters of 2024. Figures 7 and 8 are sulfate concentration maps of the west edge of the plume in the first and third quarters of 2024. The sulfate concentration contouring on Figures 5 through 8 is based on the highest sulfate concentration measured at co-located wells and the most recent sample result at wells with multiple measurements during a quarter. The extent of the sulfate plume and the contours drawn on these figures are based on consideration of both historical and 2024 sulfate concentration data.

Figure 9 shows sulfate concentrations through time at public drinking water supply wells. The sulfate concentrations at the AWC wells were all less than 70 mg/L in 2024, and less than the 150 mg/L temporary sulfate action level set in the Mitigation Plan for the AWC wellfield. Wells NWC-02 and NWC-06 had sulfate concentrations less than 10 mg/L in 2024. Sulfate concentrations at NWC-04 near Bisbee Junction, which is believed to be at the receding edge of the plume, ranged between 171 and 188 mg/L in 2024.

Figure 10 is a graph of sulfate concentrations over time in monitoring wells installed for the expanded groundwater monitoring program. Sulfate concentrations measured in the fourth quarter 2014 are not shown on Figure 10 because the data are anomalous compared to the next eight quarters of sampling, possibly due to incomplete well development prior to sampling. Sulfate concentrations in the expanded groundwater monitoring wells were relatively steady between 2015 and the third quarter 2024 in that concentrations at each well appear to vary within a range specific to the well and there are no abrupt increases in the trends of concentration.

2.2 Water Elevation Data

Groundwater level data collected in 2024 are provided in Table 4. Historical water level data collected for the Mitigation Order sampling are compiled in Appendix C. Groundwater elevations

were calculated using depth to water measurements made under static (non-pumping) conditions whenever possible.

Site-wide water level measurements are made in the first and third quarters of the year (Table 1). Figures 11 and 12 are site-wide groundwater elevation contour maps for the first and third quarters of 2024. Figures 13 and 14 are groundwater elevation contour maps for basin fill at the west edge of the plume in the first and third quarters of 2024. In Figures 11 through 14, the most recent depth to water measurement is used for contouring at wells with multiple measurements during a quarter. The contours drawn on these figures are based on consideration of 2024 data and historical water level trends.

The first quarter 2024 water level in well AWC-04 was higher than previous measurements and higher than surrounding wells. Water levels at AWC-04 and other the AWC wells are generally lower than the surrounding area due to long term pumping in the wellfield and/or residual drawdown from pumping in the measured well. AWC field staff indicated that AWC-04 had not been used for several weeks when the water level was measured in the first quarter 2024. The abnormally high first quarter water level is consistent with an extended period of recovery at the well. The groundwater contours shown on Figure 13 are not consistent with previous quarter but were drawn to represent measured water levels for first quarter 2024. The AWC-04 water level for the third quarter 2024 (Table 4) was more consistent with historic water levels and nearby wells (Figure 14).

Groundwater elevations over time for BMO monitor wells with screened intervals in basin fill are shown on Figure 15 for selected plume edge and regional monitoring wells (see Table 1 for well use), and by Figure 16 for expanded groundwater monitoring program wells. Groundwater elevations in plume edge and regional BMO monitor wells in basin fill decreased from 2008 through 2013, were relatively steady from 2013 to 2016, and declined from 2016 through 2024. Water elevations in expanded groundwater monitoring program wells show similar patterns of increase and decrease over time as do the plume edge and regional BMO monitor wells, including an annual pattern of low summer and high winter water elevations.

Figure 17 shows hydrographs for BMO monitor wells in bedrock. Groundwater elevations in BMO monitoring wells screened in bedrock show various patterns depending on the location and depth of the well. Water levels in bedrock wells beneath the basin fill tend to decline until 2013, stabilize from 2013 to 2016, and decline after 2016, similar to the basin fill wells. Water levels in shallow bedrock wells, such as BMO 2010-1M and BMO-2012-1M, near Bisbee Junction, increased in

elevation from 2013 to 2016 and have been steady or declining since 2016. Section 4.2.3.2 of the Aquifer Characterization Report (Clear Creek Associates, 2010) has a detailed explanation of the different potentiometric systems in bedrock.

2.3 Quality Assurance/Quality Control

A data verification report is prepared for quality assurance and quality control purposes. The data verification report evaluates field and laboratory quality assurance data for acceptability in the context of data quality objectives for groundwater monitoring identified in the Quality Assurance Project Plan. The data verification report for 2024 is in Appendix D. Based on the data verification review, the field measurements and analytical results collected in 2024 are of acceptable quality for use in monitoring activities conducted pursuant to the Mitigation Order.

2.4 Results of ADWR Well Records Review

Groundwater wells installed in Arizona are required to be registered with ADWR. Appendix E contains the ADWR well records review for 2024. The ADWR well records review was conducted using a version of the well records database current through January 13, 2025. The review identified one new well registration within one mile of the sulfate plume. The well registry number for the new record is 55-627682

The new well record was a request to change well information that included an updated location for an existing municipal water production well and was approved by ADWR on June 9, 2023. The well was identified as NWC-01 in the 2008 Well Inventory Report (HGC, 2008b) and in the 2014 well inventory update (Clear Creek, 2014b). The well inventories categorized the well as an inactive production well but no location was associated with it. Clear Creek will attempt to contact the new well owner to confirm that the well remains inactive.

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Tables

CLEAR CREEK ASSOCIATES

TABLE 1
Groundwater Monitoring Schedule in 2024

Well Name	ADWR 55 Registry Number	Well Use	Monitoring Purpose	Semiannual Sampling First Quarter	Annual Sampling Third Quarter	Biennial Sampling Third Quarter of Odd Numbered Years
ANDERSON 396	613396	PNDW	RM	WLO	WLO	✓
ANDERSON 458	221458	PDWS	DWS (Mit)		✓	
ASLD 435	616435	STOCK	RM	WLO	WLO	
AWC-02	616586	PWS	DWS (>2000)	✓	✓	
AWC-03	616585	PWS	DWS (>2000)	✓	✓	
AWC-04	616584	PWS	DWS (>2000)	✓	✓	
AWC-05	590620	PWS	DWS (>2000)	✓	✓	
BANKS 986	647986	PDWS	DWS (>2000)		✓	
BANKS 987	647987	PNDW	RM	WLO	WLO	
BARTON 919	**644919**	**PNDW**	**RM**	**WLO**	**WLO**	
BIMA	577927	PNDW	RM			✓
BMO-2008-1G	909474	MW	PE (Lateral)	✓	✓	
BMO-2008-3B	909147	MW	PE (Lateral)	✓	✓	
BMO-2008-4B	910096	IRR	PE (Below)	WLO	✓	
BMO-2008-5B[1]	909653	PNDW	PE (Lateral)	✓	✓	
BMO-2008-5M	909552	MW	PE (Lateral)	✓	✓	
BMO-2008-6B	909146	MW	PE (Lateral)	✓	✓	
BMO-2008-6M	909019	MW	PE (Lateral)	✓	✓	
BMO-2008-7M	908794	MW	PE (Below)	WLO	✓	
BMO-2008-8B	910097	MW	RM	WLO	WLO	✓
BMO-2008-8M	909711	MW	PE (Below)	WLO	✓	
BMO-2008-9M	909255	MW	PE (Below)	WLO	✓	
BMO-2008-10GL	909435	MW	RM	WLO	WLO	✓
BMO-2008-10GU	909272	MW	RM	WLO	WLO	✓
BMO-2008-11G	909434	MW	PE (Lateral)	✓	✓	
BMO-2008-13B	909551	MW	RM	WLO	WLO	✓
BMO-2008-13M	909760	MW	RM	WLO	WLO	✓
BMO-2010-1M	219957	MW	PE (Below)	WLO	✓	
BMO-2010-2M	219958	MW	RM	WLO	WLO	✓
BMO-2010-3B	219970	MW	PE (Lateral)	✓	✓	
BMO-2010-3M	219969	MW	PE (Lateral)	✓	✓	
BMO-2012-1M	221388	MW	PE (Lateral)	✓	✓	
BMO-2014-1BL	917393	MW	PE (Lateral)	✓	✓	
BMO-2014-1BU	917394	MW	PE (Lateral)	✓	✓	
BMO-2014-2BL	917452	MW	PE (Lateral)	✓	✓	
BMO-2014-2BU	917453	MW	PE (Lateral)	✓	✓	
BMO-2014-3BL	917527	MW	PE (Lateral)	✓	✓	
BMO-2014-3BU	917494	MW	PE (Lateral)	✓	✓	
BMO-2014-4B	917620	MW	PE (Lateral)	✓	✓	
BMO-2014-4BL	917619	MW	PE (Lateral)	✓	✓	
BMO-2015-1B	917622	MW	PE (Lateral)	✓	✓	
BMO-2015-1BL	917621	MW	PE (Lateral)	✓	✓	
BMO-2015-2B	917827	MW	PE (Lateral)	✓	✓	
BMO-2015-2BL	917828	MW	PE (Lateral)	✓	✓	
BOOTH	914931	PDWS	DWS (<2000)	✓	✓	
BURKE	212268	PDWS	DWS (>2000)		✓	
CHAMBERS	629807	PDWS	DWS (>2000)		✓	
COB MW-1B	225906	MW	RM	WLO	WLO	✓
COB MW-2	903984	MW	PE (Lateral)	✓	✓	
COB MW-3	906823	MW	RM	WLO	✓	
COB WL	593116	MW	PE (Lateral)	✓	✓	

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Well Name	ADWR 55 Registry Number	Well Use	Monitoring Purpose	Semiannual Sampling First Quarter	Annual Sampling Third Quarter	Biennial Sampling Third Quarter of Odd Numbered Years
COOPER	**623564**	**PDWS**	**DWS (<2000)**	✓	✓	
COOPER 988	232988	PDWS	DWS (<2000)	✓	✓	
COOPER C	637069	MW	RM		✓	
DODSON	644927	PDWS	DWS (<2000)	✓	✓	
DOUGLASS 791	592791	PNDW	RM		WLO	
DOUGLASS 792	592792	PNDW	RM		WLO	
EAST	599796	PDWS	DWS (>2000)		✓	
ECHAVE	219449	PDWS	DWS (>2000)	WLO	✓	
EPPELE 641	805641	PDWS	DWS (>2000)		✓	
FRANCO 383	221383	PNDW	DWS (Mit)		✓	
FULTZ	212447	PDWS	RM		✓	
GARNER 557	558557	PNDW	RM	WLO	WLO	
GARNER 635	587635	PDWS	DWS (Mit)		✓	
GOAR RANCH	610695	PNDW	RM	WLO	WLO	
HOBAN	805290	MW	RM	WLO	✓	
HOWARD NR	NR	PNDW	RM	WLO	WLO	✓
HOWARD 312	221312	PDWS	DWS (Mit)		✓	
KEEFER	209744	PDWS	DWS (<2000)	✓	✓	
LADD 251	520251	PNDW	RM	WLO	WLO	
LADD 538	505538	PNDW	RM	WLO	WLO	
LADD 635	224635	STOCK	RM	WLO	WLO	
LADD 837	519837	PNDW	RM	WLO	WLO	
LADD 977	642977	STOCK	RM	WLO	WLO	
LAIR	236750	PDWS	DWS (>2000)		✓	
MARCELL	NR	PNDW	RM			✓
MCCONNELL 265	539265	PNDW	RM	WLO	WLO	✓
MCCONNELL 459	221459	PDWS	DWS (Mit)		✓	
METZLER	35-71891	PNDW	RM	WLO	WLO	
MOORE	538847	PDWS	DWS (>2000)		✓	
NESS	509127	PDWS	DWS (>2000)		✓	
NOTEMAN	212483	PNDW	RM			✓
NSD-02	527587	MW	RM	WLO	WLO	
NSD-03	527586	MW	RM	WLO	WLO	
NWC-02	562944	PWS	DWS (>2000)	✓	✓	
NWC-03 CAP	627684	PNDW	RM	WLO	WLO	
NWC-04	551849	PWS	DWS (<2000)	Quarterly		
NWC-06	575700	PWS	DWS (>2000)	✓	✓	
OSBORN	**643436**	**PNDWS**	**DWS (>2000)**		✓	
OLMOS	224745	PDWS	DWS	WLO	✓	
PALMER	578819	PDWS	DWS (>2000)		✓	
PANAGAKOS	35-76413	PDWS	PE (Lateral)	✓	✓	
PARRA	576415	PNDW	RM			✓
PIONKE 395	613395	PNDW	RM	WLO	WLO	✓
PIONKE 517	221517	PDWS	DWS (Mit)		✓	
POOL	509518	PDWS	DWS (>2000)		✓	
POWER 639	222639	PDWS	DWS (<2000)	✓	✓	
RAMIREZ	216425	PDWS	DWS (>2000)	WLO	✓	
RAY	803772	PDWS	DWS (>2000)		✓	
ROGERS 596	573596	PNDW	RM	✓	✓	
ROGERS 803	641803	PDWS	RM	✓	✓	
ROGERS E	216018	PDWS	DWS (<2000)	✓	✓	

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Well Name	ADWR 55 Registry Number	Well Use	Monitoring Purpose	Semiannual Sampling First Quarter	Annual Sampling Third Quarter	Biennial Sampling Third Quarter of Odd Numbered Years
RUIZ	**531770**	**PDWS**	**DWS (<2000)**	✓	✓	
RUIZ 146	232146	PDWS	DWS (<2000)	✓	✓	
SCHWARTZ	210865	PDWS	DWS (<2000)	✓	✓	
STEPHENS	808560	PNDW	RM	WLO	WLO	
SWAN	810034	PDWS	DWS (>2000)		✓	
TERRY	NR	PNDW	RM		✓	
TERRY 101	234101	PDWS	DWS (>2000)		✓	
THOMPSON 151	612151	PNDW	RM	WLO	WLO	
THOMPSON 341	218341	PDWS	DWS (>2000)		✓	
TM-02A	522574	MW	RM	WLO	WLO	✓
TM-06 MILLER	522695	MW	RM	WLO	WLO	✓
TM-07	522576	MW	PE (Lateral)	✓	✓	
TM-10 USBP	522696	MW	RM	✓	✓	
TM-15 MILLER	522699	MW	RM		✓	
TM-16	522578	MW	RM	WLO	WLO	✓
TM-19A	522580	MW	RM		✓	
TM-42	562554	MW	RM	WLO	WLO	✓
TVI 236	802236	IRR	PE (Lateral)	✓	✓	
TVI 713	567713	PNDW	RM	WLO	WLO	
TVI 875	568875	IRR	RM		✓	
WEED	544535	PDWS	DWS (<2000)	✓	✓	
WEISKOPF 802	641802	PNDW	RM	WLO	WLO	✓
WEISKOPF 897	220897	PDWS	DWS (Mit)		✓	
ZANDER	205126	PDWS	DWS (>2000)	WLO	✓	

Notes:

BOLDED wells removed from monitoring schedule in second quarter 2024

1	In September 2018 BMO-2008-5B was verified as not being used for drinking water supply based on discussion with the property owner.
35-71891	ADWR 35 Database
ADWR	Arizona Department of Water Resources
NR	No Record

Well Use

PWS	Public Water Supply
PDWS	Private Drinking Water Supply
PNDW	Private Non-Drinking Water
IRR	Irrigation
MW	Monitoring Well
STOCK	Stock-Wildlife Watering

Monitoring Purpose

DWS (<2000)	Drinking Water Supply, Greater than 2000 feet from the plume
DWS (>2000)	Drinking Water Supply, Less than 2000 feet from the plume
DWS (Mit)	Drinking Water Supply, Mitigation well installed below plume
PE (Lateral)	Plume Edge Monitoring, Lateral to plume
PE (Below)	Plume Edge Monitoring, Below plume
RM	Regional Monitoring
WLO	Water Level Only

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
ANDERSON 396	613396	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
ANDERSON 458	221458	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in August 2024.
ASLD 435	616435	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
AWC-02	616586	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
AWC-03	616585	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
AWC-04	616584	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
AWC-05	590620	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BANKS 986	647986	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in August 2024. Water level not measured due to obstruction in well.
BANKS 987	647987	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
BARTON-919	644919	WLO	N	N	Well identified for water level measurements only. Water level not measured due to obstruction in well.	NS	N	N	Well is not scheduled for third quarter monitoring.
BIMA	577927	NS	N	N	Well is not scheduled for first quarter monitoring.	NS	N	N	Well is not scheduled for third quarter monitoring.
BMO-2008-1G	909474	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2008-3B	909147	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2008-4B	910096	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	✓	Y	N	Unable to sample because power is off at well. Water level measured in August 2024.
BMO-2008-5B	909653	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2008-5M	909552	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2008-6B	909146	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2008-6M	909019	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2008-7M	908794	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2008-8B	910097	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
BMO-2008-8M	909711	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	✓	Y	Y	Water quality sample collected in September 2024.
BMO-2008-9M	909255	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	✓	Y	Y	Water quality sample collected in September 2024.
BMO-2008-10GL	909435	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
BMO-2008-10GU	909272	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
BMO-2008-11G	909434	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2008-13B	909551	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
BMO-2008-13M	909760	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
BMO-2010-1M	219957	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2010-2M	219958	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
BMO-2010-3B	219970	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2010-3M	219969	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2012-1M	221388	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in July 2024.
BMO-2014-1BL	917394	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-1BU	917393	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-2BL	917452	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-2BU	917453	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-3BL	917527	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-3BU	917494	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-4B	917620	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2014-4BL	917619	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
BMO-2015-1B	917622	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2015-1BL	917621	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2015-2B	917827	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BMO-2015-2BL	917828	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
BOOTH	914931	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	N	Unable to sample due to inoperable pump. Water level measured in September 2024.
BURKE	212268	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in July 2024. Water level not measured due to obstruction.
CHAMBERS	629807	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	Unable to sample due to inoperable pump. Water level not measured due to no access to wellhead.
COB MW-1B	225906	WLO	N	N	Well identified for water level measurements only. Water level not measured at well owner request.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
COB MW-2	903984	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.
COB MW-3	906823	WLO	Y	N	Well identified for water level measurements only. Water level measured in February 2023.	✓	Y	Y	Water quality sample collected in August 2024.
COB WL	593116	✓	Y	Y	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.
COOPER	623564	✓	N	N	Unable to sample due to inoperable pump. Water level not measured due to no port in wellhead.	NS	N	N	Well is not scheduled for third quarter monitoring.
COOPER 988	232988	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
COOPER C	637069	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	Well was dry.
DODSON	644927	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in July 2024.
DOUGLASS 791	592791	NS	N	N	Well is not scheduled for first quarter monitoring.	WLO	N	N	No property access.
DOUGLASS 792	592792	NS	N	N	Well is not scheduled for first quarter monitoring.	WLO	N	N	No property access.
EAST	599796	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
ECHAVE	219449	WLO	N	Y	Well identified for water level measurements only. Water level measured in January 2024.	✓	Y	Y	Water quality sample collected in July 2024.
EPPELE 641	805641	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	Unable to sample or measure water level due to no property access.

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
FRANCO 383	221383	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in August 2024. Unable to measure water level due to wellhead being locked.
FULTZ	212447	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in September 2024.
GARNER 557	558557	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
GARNER 635	587635	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
GOAR RANCH	610695	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
HOBAN	805290	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	✓	Y	Y	Water quality sample collected in August 2024.
HOWARD NR	NR	WLO	N	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	N	N	Well identified for water level measurements only. Water level not measured due to obstruction in well.
HOWARD 312	221312	NS	Y	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in August 2024.
KEEFER	209744	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in July 2024.
LADD 251	520251	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
LADD 538	503538	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
LADD 635	224635	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
LADD 837	519837	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
LADD 977	642977	WLO	N	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
LAIR	236750	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in September 2024. Water level not measured due to obstruction in well.
MARCELL	NR	NS	N	N	Well is not scheduled for first quarter monitoring.		N	N	Well is not scheduled for third quarter monitoring.
MCCONNELL 265	539265	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
MCCONNELL 459	221459	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in August 2024.
METZLER	35-71891	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
MOORE	538847	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in August 2024.

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
NESS	509127	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
NOTEMAN	212483	NS	N	N	Well is not scheduled for first quarter monitoring.		N	N	Well is not scheduled for third quarter monitoring.
NSD-02	527587	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
NSD-03	527586	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
NWC-02	562944	✓	N	Y	Water quality sample collected in January 2024. Water level not measured due to obstruction.	✓	Y	Y	Water quality sample collected in August 2024.
NWC-03 CAP	627684	WLO	N	N	Well was dry.	WLO	N	N	Well was dry.
NWC-04	551849	✓	N	Y	Water quality sample collected in Janary 2024. Water level not measured due to no port in wellhead.	✓	N	Y	Water quality sample collected in August 2024. Water level not measured due to well pumping.
NWC-06	575700	✓	N	Y	Water quality sample collected in January 2024. Water level not measured ude to obstruction.	✓	Y	Y	Water quality sample collected in August 2024.
OLMOS	224745	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
OSBORN	643436	NS	N	N	Well is not scheduled for first quarter monitoring.	NS	N	N	Well is not scheduled for third quarter monitoring.
PALMER	578819	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in July 2024. Water level not measured due to no port in wellhead.
PANAGAKOS	35-76413	✓	Y	Y	Water quality sample collected in Janary 2024.	✓	Y	Y	Water quality sample collected in July 2024.
PARRA	576415	NS	N	N	Well is not scheduled for first quarter monitoring.		N	Y	Well is not scheduled for third quarter monitoring.
PIONKE 395	613395	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
PIONKE 517	221517	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
POOL	509518	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in August 2024. Water level not measured due to no access to wellhead.
POWER 639	222639	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
RAMIREZ	216425	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
RAY	803772	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
ROGERS 596	573596	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in July 2024.

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
ROGERS 803	641803	✓	N	N	Well dry.	✓	N	N	Well was dry.
ROGERS E	216018	✓	Y	Y	Water quality sample collected in January 2024.	✓	N	Y	Water quality sample collected in August 2024. Water level not measured due to obstruction.
RUIZ	531770	✓	N	N	Well is capped and has been replaced by RUIZ 146.	NS	N	N	Well is not scheduled for third quarter monitoring.
RUIZ 146	232146	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
SCHWARTZ	210865	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in July 2024.
STEPHENS	808560	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
SWAN	NR	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	No property access.
TERRY	229470	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	Unable to sample or measure water level due to no power to well.
TERRY 101	234101	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in August 2024. Water level not measured due to obstruction in the well.
THOMPSON 151	612151	WLO	N	N	Well identified for water level measurements only. Unable to measure water level due to obstruction.	WLO	N	N	Well identified for water level measurements only. Unable to measure water level due to obstruction.
THOMPSON 341	218341	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in August 2024.
TM-02A	522574	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
TM-06 MILLER	522695	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2024.
TM-07	522576	✓	Y	Y	Water quality sample collected in March 2024.	✓	Y	Y	Water quality sample collected in August 2024.
TM-10 USBP	522696	✓	Y	Y	Water quality sample collected in January 2024.	✓	Y	Y	Water quality sample collected in August 2024.
TM-15 MILLER	522699	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
TM-16	522578	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
TM-19A	522580	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in September 2024.
TM-42	562554	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
TVI 236	802236	✓	Y	N	Water quality sample collected in February 2024.	✓	Y	Y	Water quality sample collected in August 2024.

TABLE 2
Summary of Groundwater Monitoring in 2024

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2024			Annual and Biennial Sampling Third Quarter Schedule*	3Q 2024		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
TVI 713	567713	WLO	Y	N	Well identified for water level measurements only. Water level measured in February 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2024.
TVI 875	568875	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	Unable to sample due to well inoperable. No water level measured due to no port in wellhead.
WEED	544535	✓	N	Y	Water quality sample collected in January 2024. Water level not measured due to no port in wellhead.	✓	Y	Y	Water quality sample collected in August 2024. No water level measured due to no port in wellhead.
WEISKOPF 802	641802	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2024.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2024.
WEISKOPF 897	220897	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2024.
ZANDER	205126	WLO	N	N	No property access.	✓	N	N	No property access.

Notes:

* Annual sampling is conducted in third quarter. Biennial sampling conducted in third quarter of odd years (see Table 1)

35-71891 = ADWR 35 Database

ADWR = Arizona Department of Water Resources

bls = below land surface

N = no

NR = no record

NS = not scheduled

Q = quarter

Y = yes

WLO = water level only

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
ANDERSON 458	221458	8/13/2024		8.18	24.5	402.8	23.4
AWC-02	616586	1/22/2024		7.38	19.1	563	19.3
		8/1/2024		7.54	21.0	548.8	18.0
AWC-03	616585	1/22/2024		7.55	19.5	525	69.5
		8/1/2024		7.50	20.8	539.5	66.9
AWC-04	616584	1/22/2024		7.13	18.5	755	22.8
		8/1/2024		7.11	20.1	742.7	20.8
AWC-05	590620	1/22/2024		7.57	20.5	458	23.2
		8/1/2024		7.63	21.8	449.8	23.3
BANKS 986	647986	8/9/2024		7.61	22.4	1058	50.6
BMO-2008-1G	909474	3/12/2024		7.26	21.2	830	94.7
		7/10/2024		7.34	21.4	1133	93.6
BMO-2008-3B	909147	3/13/2024		7.29	20.6	712	186
		7/31/2024		7.37	21.7	959	206
BMO-2008-5B	909653	3/13/2024		7.25	21.4	865	285
		7/15/2024		7.05	22.8	1146	273
BMO-2008-5M	909552	3/13/2024		7.32	22.3	716	188
		7/15/2024		7.20	22.5	921	179
BMO-2008-6B	909146	3/13/2024		7.26	20.9	293	7.39
		7/15/2024		7.24	22.0	362	5.63
BMO-2008-6M	909019	3/13/2024		7.34	21.7	720	196
		7/15/2024		7.27	22.1	932	184
BMO-2008-7M	908794	7/29/2024		7.54	22.7	684	44.7
BMO-2008-8M	909711	9/18/2024		6.67	23.5	2240	964
BMO-2008-9M	909255	7/29/2024		7.70	24.4	789	102
BMO-2008-11G	909434	3/12/2024		7.79	24.7	377	13.4
		7/17/2024		7.89	25.1	479	12.9
BMO-2010-1M	219957	7/11/2024		7.65	23.7	1997	189
BMO-2010-3B	219970	1/31/2024		7.57	19.1	424	21.4
		8/6/2024		7.57	21.4	433.8	22.0
BMO-2010-3M	219969	1/31/2024		7.70	21.5	382	9.10
		8/6/2024		7.69	23.2	389.0	10.5
		1/31/2024	DUP	7.70	21.5	382	9.63
BMO-2012-1M	221388	3/12/2024		7.28	22.5	930	228
		7/10/2024		7.20	22.9	1226	217
BMO-2014-1BL	917394	2/6/2024		7.60	20.4	713	178
		8/8/2024		7.38	22.3	728.9	177
BMO-2014-1BU	917393	2/6/2024		7.47	20.2	760	196
		8/8/2024		7.22	23.8	804.5	210
BMO-2014-2BL	917452	2/6/2024		7.50	19.4	1152	453
		8/8/2024		7.18	23.3	1162	402
BMO-2014-2BU	917453	2/6/2024		7.51	18.8	542	73.9
		8/8/2024		7.48	21.6	556.8	71.2
BMO-2014-3BL	917527	1/30/2024		7.64	20.2	408	8.53
		8/12/2024		7.47	21.9	422.3	9.20
		8/12/2024	DUP	7.47	21.9	422.3	9.24
BMO-2014-3BU	917494	1/30/2024		7.63	19.2	468	7.77
		8/12/2024		7.56	20.8	483.4	8.30
BMO-2014-4B	917620	2/1/2024		7.83	19.7	484	53.9
		8/7/2024		7.59	21.8	508.4	87.0
BMO-2014-4BL	917619	2/1/2024		7.59	19.9	595	123
		8/7/2024		7.54	21.9	591.1	123
BMO-2015-1B	917622	2/1/2024		7.51	19.2	727	177
		8/7/2024		7.48	21.2	741.7	195
BMO-2015-1BL	917621	2/1/2024		7.61	19.3	850	252
		8/7/2024		7.42	21.2	872.6	289
BMO-2015-2B	917827	1/23/2024		7.49	19.1	923	280
		8/5/2024		7.31	21.6	923.1	292
		8/5/2024	DUP	7.31	21.6	923.1	289

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2015-2BL	917828	1/23/2024		7.45	19.2	992	322
		8/5/2024		7.27	22.0	981.8	335
BOOTH	914931	1/26/2024		7.53	16.9	688	156
BURKE	212268	7/31/2024		7.85	26.0	479.7	29.3
COB MW-2	903984	2/14/2024		7.42	18.6	600	24.5
		8/14/2024		7.22	19.9	585.4	25.9
COB MW-3	906832	8/14/2024		7.45	20.3	455.2	58.0
		8/14/2024	DUP	7.45	20.3	455.2	57.9
COB WL	593116	2/14/2024		7.39	19.3	1017	69.9
		8/14/2024		6.99	20.7	1036	73.7
COOPER 988	232988	1/22/2024		8.23	13.3	400	17.7
		8/5/2024		8.27	27.9	415.6	17.8
DODSON	644927	1/17/2024		7.29	19.3	1985	45.1
		7/30/2024		7.12	21.0	1972	46.9
		1/17/2024	DUP	7.29	19.3	1985	69.9
EAST	599796	7/31/2024		7.34	20.9	609.6	11.6
ECHAVE	219449	7/25/2024		7.75	27.3	387	18.1
FRANCO 383	221383	8/15/2024		7.57	26.5	1148	388
FULTZ	212447	9/11/2024		7.45	21.6	852.1	74.5
GARNER 635	587635	7/31/2024		7.57	24.0	472.6	31.8
HOBAN	805290	8/28/2024		7.16	21.8	1065	213
HOWARD 312	221312	8/7/2024		8.14	26.6	621.7	67.1
KEEFER	209744	1/17/2024		7.50	18.6	507.9	8.00
		7/25/2024		7.68	24.5	513	8.10
LAIR	236750	9/11/2024		7.68	24.7	549.6	12.2
MCCONNELL 459	221459	8/1/2024		7.97	25.3	458.3	27.5
MOORE	538847	8/16/2024		7.43	21.9	446.9	8.68
NESS	509127	7/31/2024		7.60	24.7	542.3	40.1
NWC-02	562944	1/26/2024		7.51	19.2	454	9.31
		8/9/2024		7.49	21.6	449.2	9.42
NWC-04	551849	1/26/2024		7.44	22.1	875	188
		4/19/2024		7.33	24.5	868.1	188
		4/19/2024	DUP	7.33	24.5	868.1	189
		8/9/2024		7.18	25.1	887.1	185
		12/5/2024		7.29	23.8	871.1	171
NWC-06	575700	1/26/2024		7.55	18.7	409.7	9.45
		8/9/2024		7.56	21.8	417.0	9.59
OLMOS	224745	8/12/2024		7.53	21.3	427.7	9.59
PALMER	578819	7/31/2024		7.90	25.7	509.6	14.5
PANAGAKOS	35-76413	1/17/2024		7.33	18.4	1094	193
		7/31/2024		7.52	20.7	1082	174
PIONKE 517	221517	7/24/2024		7.61	24.5	388	13.6
POOL	509518	8/16/2024		7.45	22.0	552.0	99.7
POWER 639	222639	1/16/2024		7.57	20.6	791.3	171
		8/13/2024		7.57	21.9	781.9	217
		8/13/2024	DUP	7.57	21.9	781.9	160
RAMIREZ	216425	8/5/2024		7.50	23.1	420.3	9.30
RAY	803772	7/25/2024		6.98	21.7	1458	138
ROGERS 596	573596	1/15/2024		7.07	16.1	1458	581
		7/26/2024		6.91	25.5	1408	521
ROGERS E	216018	1/18/2024		7.44	20.3	480.8	9.60
		8/6/2024		7.47	21.4	476.6	10.8
		8/6/2024	DUP	7.47	21.4	476.6	10.7
RUIZ 146	232146	1/16/2024		7.40	19.9	609.8	77.7
		8/6/2024		7.32	21.3	636.3	104
SCHWARTZ	210865	1/16/2024		7.46	20.0	690.0	127
		7/25/2024		7.40	24.8	703	141
TERRY 101	234101	8/2/2024		7.52	21.5	415.4	10.5
THOMPSON 341	218341	8/15/2024		7.34	23.6	429.1	9.31

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-07	522576	3/12/2024		7.50	21.2	620	101
		8/28/2024		7.48	21.3	768	97.2
TM-10 USBP	522696	1/26/2024		7.81	19.7	353	11.5
		8/9/2024		7.63	21.7	354.9	11.3
TM-15 MILLER	522699	7/31/2024		7.51	22.3	529	15.0
		7/31/2024	DUP	7.51	22.3	529	15.0
TM-19A	522581	9/4/2024		7.49	23.4	689	65.2
TVI 236	802236	2/21/2024		7.51	18.2	617.0	23.4
		8/16/2024		7.45	19.7	507.5	30.2
WEED	544535	1/16/2024		8.14	18.7	380.3	12.5
		8/8/2024		7.69	20.8	399.4	13.8
WEISKOPF 897	220897	7/26/2024		7.58	23.3	384	16.6

Notes:
35-71891 = ADWR 35 Database
ADWR = Arizona Department of Water Resources
deg C = degrees Celsius
DUP = blind duplicate
mg/L = milligrams per liter
SC = specific conductance
SU = standard units
µS/cm = microsiemens per centimeter

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
ANDERSON 396	613396	4588.51	1/18/24	159.68	4428.83
			8/13/24	160.38	4428.13
ANDERSON 458	221458	4585.37	8/13/24	162.49	4422.88
ASLD 435	616435	4471.34	3/20/24	254.03	4217.31
			9/26/24	254.40	4216.94
AWC-02	616586	4547.64	1/22/24	126.93	4420.71
			8/1/24	129.08	4418.56
AWC-03[1]	616585	4539.52	1/22/24	134.10	4405.42
			8/1/24	132.50	4407.02
AWC-04	616584	4540.48	1/22/24	118.83	4421.65
			8/1/24	122.48	4418.00
AWC-05	590620	4542.51	1/22/24	278.29	4264.22
			8/1/24	279.64	4262.87
BANKS 987	647987	4648.18	1/17/24	238.05	4410.13
			8/9/24	225.02	4423.16
BMO-2008-10GL	909435	4792.21	3/19/24	335.82	4456.39
			8/28/24	350.11	4442.10
BMO-2008-10GU	909272	4793.45	3/19/24	224.91	4568.54
			8/28/24	224.06	4569.39
BMO-2008-11G	909434	4844.67	3/12/24	540.17	4304.50
			7/17/24	540.60	4304.07
BMO-2008-13B	909551	4649.21	3/19/24	219.18	4430.03
			9/9/24	219.85	4429.36
BMO-2008-13M	909760	4647.15	3/19/24	218.68	4428.47
			9/9/24	219.22	4427.93
BMO-2008-1G	909474	4805.10	3/12/24	81.73	4723.37
			7/10/24	82.09	4723.01
BMO-2008-3B	909147	4583.97	3/13/24	154.02	4429.95
			7/31/24	154.03	4429.94
BMO-2008-4B	910096	4573.17	1/15/24	144.43	4428.74
			7/26/24	145.18	4427.99
			8/15/24	145.02	4428.15
			9/11/24	145.30	4427.87
BMO-2008-5B	909653	4585.10	3/13/24	157.95	4427.15
			7/15/24	158.57	4426.53
BMO-2008-5M	909552	4585.02	3/13/24	159.32	4425.70
			7/15/24	160.01	4425.01
BMO-2008-6B	909146	4627.44	3/13/24	202.72	4424.72
			7/15/24	203.30	4424.14
BMO-2008-6M	909019	4626.90	3/13/24	203.98	4422.92
			7/15/24	204.63	4442.27
BMO-2008-7M	908794	4688.33	3/19/24	251.47	4436.86
			7/29/24	252.03	4436.30
BMO-2008-8B	910097	4753.25	3/19/24	309.67	4443.58
			9/9/24	310.10	4443.15
BMO-2008-8M	909711	4752.45	3/19/24	305.82	4446.63
			9/18/24	306.73	4445.72
BMO-2008-9M	909255	4762.61	3/19/24	300.29	4462.32
			7/29/24	301.46	4461.15
BMO-2010-1M	219957	4718.55	3/19/24	223.62	4494.93
			7/11/24	225.02	4493.53
BMO-2010-2M	219958	4746.16	3/19/24	278.05	4468.11
			7/11/24	279.18	4466.98
BMO-2010-3B	219970	4550.59	1/31/24	127.00	4423.59
			8/6/24	128.84	4421.75

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2010-3M	219969	4550.53	1/31/24	129.63	4420.90
			8/6/24	131.07	4419.46
BMO-2012-1M	221388	4719.76	3/12/24	226.62	4493.14
			7/10/24	228.03	4491.73
BMO-2014-1BL	917394	4558.45	2/6/24	131.30	4427.15
			8/8/24	131.84	4426.61
BMO-2014-1BU	917393	4558.54	2/6/24	131.69	4426.85
			8/8/24	132.04	4426.50
BMO-2014-2BL	917452	4561.80	2/6/24	134.81	4426.99
			8/8/24	135.06	4426.74
BMO-2014-2BU	917453	4561.85	2/6/24	134.76	4427.09
			8/8/24	135.00	4426.85
BMO-2014-3BL	917527	4573.765	1/30/24	147.09	4426.68
			8/12/24	147.39	4426.38
BMO-2014-3BU	917494	4574.887	1/30/24	148.21	4426.68
			8/12/24	148.51	4426.38
BMO-2014-4B	917620	4567.672	2/1/24	141.12	4426.55
			8/7/24	141.71	4425.96
BMO-2014-4BL	917619	4567.045	2/1/24	140.55	4426.50
			8/7/24	141.11	4425.94
BMO-2015-1B	917622	4562.063	2/1/24	137.09	4424.97
			8/7/24	137.80	4424.26
BMO-2015-1BL	917621	4563.402	2/1/24	138.31	4425.09
			8/7/24	139.06	4424.34
BMO-2015-2B	917827	4582.082	1/23/24	156.84	4425.24
			8/5/24	157.76	4424.32
BMO-2015-2BL	917828	4580.644	1/23/24	155.53	4425.11
			8/5/24	156.43	4424.21
BOOTH	914931	4568.21	1/26/24	140.32	4427.89
			9/11/24	140.99	4427.22
COB MW-1B	225906	4683.26	8/14/24	246.66	4436.60
COB MW-2	903984	4566.21	2/14/24	138.09	4428.12
			8/14/24	138.37	4427.84
COB MW-3	906823	4538.61	2/14/24	130.94	4407.67
			8/14/24	143.04	4395.57
COB WL	593116	4832.06	2/14/24	105.63	4726.43
			8/14/24	107	4725.06
COOPER 988	232988	4748.95	1/22/24	328.13	4420.82
			8/5/24	328.94	4420.01
COOPER C	637069	4599.14	3/19/24	169.61	4429.53
			8/28/24	DRY	DRY
DODSON	644927	4686.34	1/17/24	99.69	4586.65
			7/30/24	98.54	4587.80
EAST	599796	4626.01	7/31/24	79.53	4546.48
ECHAVE	219449	4648	1/18/24	224.84	4423.16
			7/25/24	225.55	4422.45
FULTZ	212447	4642.92	9/11/24	250.11	4392.81
GARNER 557	558557	4638.45	1/17/24	205.77	4432.68
			7/31/24	206.56	4431.89
GARNER 635	587635	4640.74	7/31/24	207.43	4433.31
GOAR RANCH	610695	4631.13	1/17/24	198.94	4432.19
			7/30/24	199.54	4431.59
HOBAN	805290	4607.60	3/19/24	178.00	4429.60
			8/28/24	178.63	4428.97
HOWARD 312	221312	4594.9356	8/7/24	236.32	4358.62
HOWARD NR	NR	4593.91	1/18/24	164.69	4429.22

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
KEEFER	209744	4572.03	1/17/24	149.45	4422.58
			7/25/24	150.06	4421.97
LADD 251	520251	4443.83	3/20/24	222.92	4220.91
			9/26/24	223.95	4219.88
LADD 538	505538	4527.05	3/20/24	206.12	4320.93
			9/26/24	205.72	4321.33
LADD 635	224635	4598.99	3/20/24	178.63	4420.36
			9/26/24	179.62	4419.37
LADD 837	519837	4470.11	3/20/24	385.11	4085.00
			9/26/24	321.35	4148.76
LADD 977	642977	4513.40	3/20/24	92.12	4421.28
			9/26/24	93.07	4420.33
MCCONNELL 265	539625	4600.70	1/18/24	171.01	4429.69
			8/1/24	171.75	4428.95
MCCONNELL 459	221459	4601.55	8/1/24	174.45	4427.10
METZLER	35-71891	4728.53	1/16/24	299.56	4428.97
			8/13/24	300.10	4428.43
MOORE	538847	4568.49	8/16/24	162.30	4406.19
NESS	509127	4761.23	7/31/24	554.96	4206.27
NSD-02	527587	4531.38	1/30/24	119.18	4412.20
			8/15/24	111.43	4419.95
NSD-03	527586	4518.28	1/30/24	DRY	DRY
			8/15/24	DRY	DRY
NWC-02	562944	4600.44	8/9/24	176.08	4424.36
NWC-03 CAP	627684	4572.82	1/26/24	DRY	DRY
NWC-06	575700	4592.50	8/9/24	178.20	4414.30
OLMOS	224745	4576.92	1/17/24	156.09	4420.83
			8/12/24	157.51	4419.41
PANAGAKOS	35-76413	4691.40	1/17/24	170.31	4521.09
			7/31/24	178.52	4512.88
PIONKE 395	613395	4592.13	1/16/24	163.19	4428.94
			7/24/24	163.96	4428.17
PIONKE 517	221517	4587.20792	7/24/24	161.90	4425.31
POWER 639	222639	4734.38	1/16/24	300.40	4433.98
			8/13/24	301.02	4433.36
RAMIREZ	216425	4596.61	1/17/24	173.59	4423.02
			8/5/24	174.49	4422.12
RAY	803772	4647.91	7/25/24	52.39	4595.52
ROGERS 596	573596	4577.35	1/15/24	147.51	4429.84
			7/26/24	148.21	4429.14
ROGERS 803	641803	4576.16	1/15/24	DRY	DRY
ROGERS E	216018	4590.66	1/18/24	164.09	4426.57
RUIZ 146	232146	4731.23	1/16/24	304.73	4426.50
			8/6/24	305.24	4425.99
SCHWARTZ	210865	4564.49	1/16/24	136.54	4427.95
			7/25/24	137.13	4427.36
STEPHENS	808560	4651.22	1/17/24	54.82	4596.40
			7/30/24	57.96	4593.26
THOMPSON 341	218341	4596.73	8/15/24	176.05	4420.68
TM-02A	522574	4808.43	3/19/24	342.52	4465.91
			9/9/24	343.70	4464.73
TM-06 MILLER	522695	4707.88	3/19/24	163.51	4544.37
			7/11/24	164.30	4543.58
TM-07	522576	4769.20	3/12/24	341.50	4427.70
			8/28/24	341.88	4427.32

TABLE 4
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
TM-10 USBP	522696	4741.18	1/26/24	257.16	4484.02
			8/9/24	253.53	4487.65
TM-15 MILLER	522699	4729.25	7/31/24	305.49	4423.76
TM-16	522578	4717.71	3/19/24	61.19	4656.52
			7/11/24	62.56	4655.15
TM-19A	522581	4645.87	9/4/24	214.42	4431.45
TM-42	562554	4666.67	3/19/24	224.81	4441.86
			7/11/24	225.20	4441.47
TVI 236	802236	4561.98	2/21/24	135.26	4426.72
			8/16/24	135.84	4426.14
TVI 713	567713	4567.22	2/7/24	139.61	4427.61
			8/8/24	140.11	4427.11
WEISKOPF 802	641802	4586.89	1/18/24	156.30	4430.59
			7/26/24	158.48	4428.41
WEISKOPF 897	220897	4585.70	7/26/24	158.41	4427.29

Notes:

35-71891 = ADWR 35 Database

ADWR = Arizona Department of Water Resources

ft amsl = feet above mean sea level

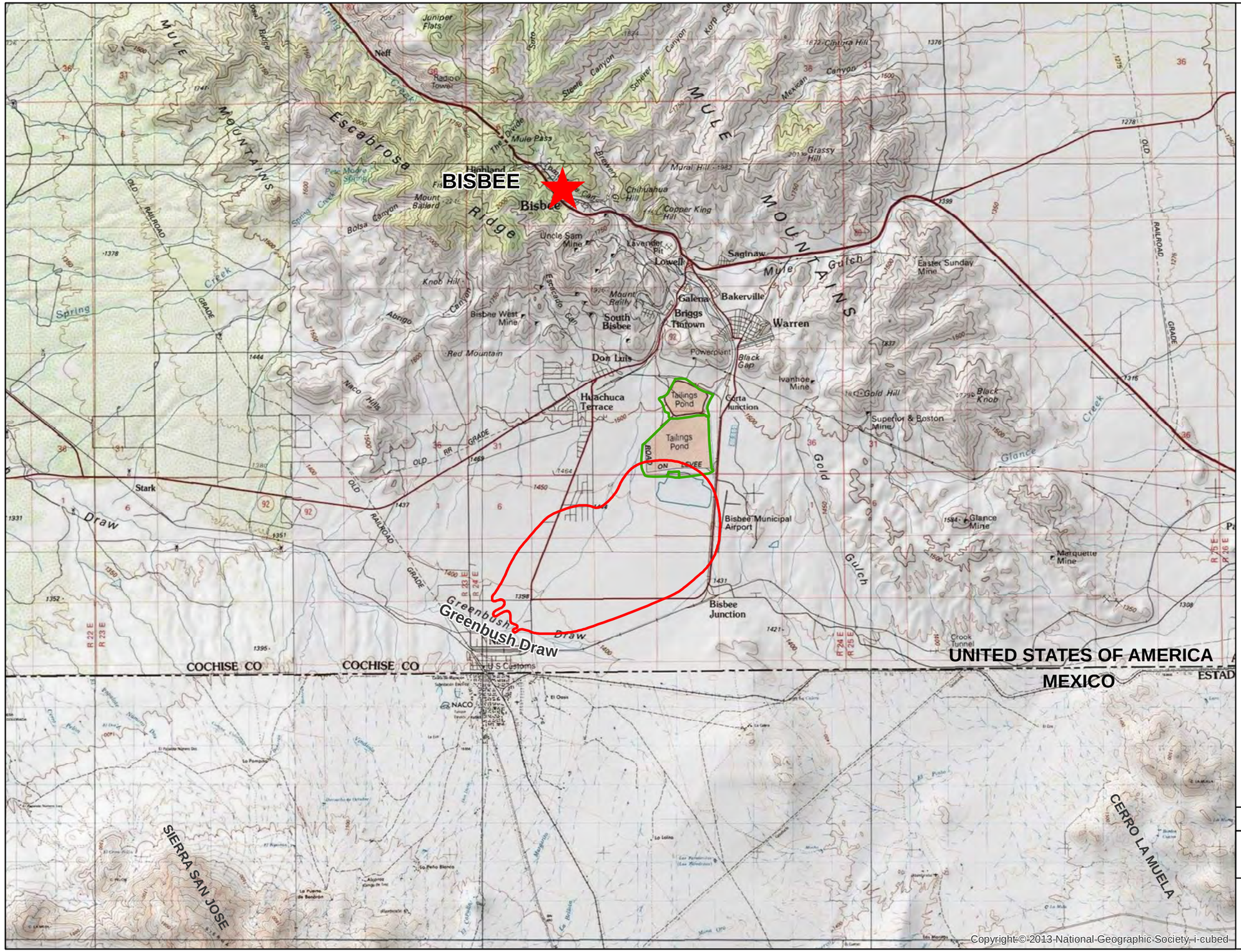
NR = no record

UTM = Universal Transverse Mercator Zone 12, North American Datum 1983 (NAD83)

[1] Depth to water measurements provided by Arizona Water Company

Figures

CLEAR CREEK ASSOCIATES



Legend

- CTSA Facility
- Estimated 250 mg/L Sulfate Concentration for Third Quarter 2024

Miles

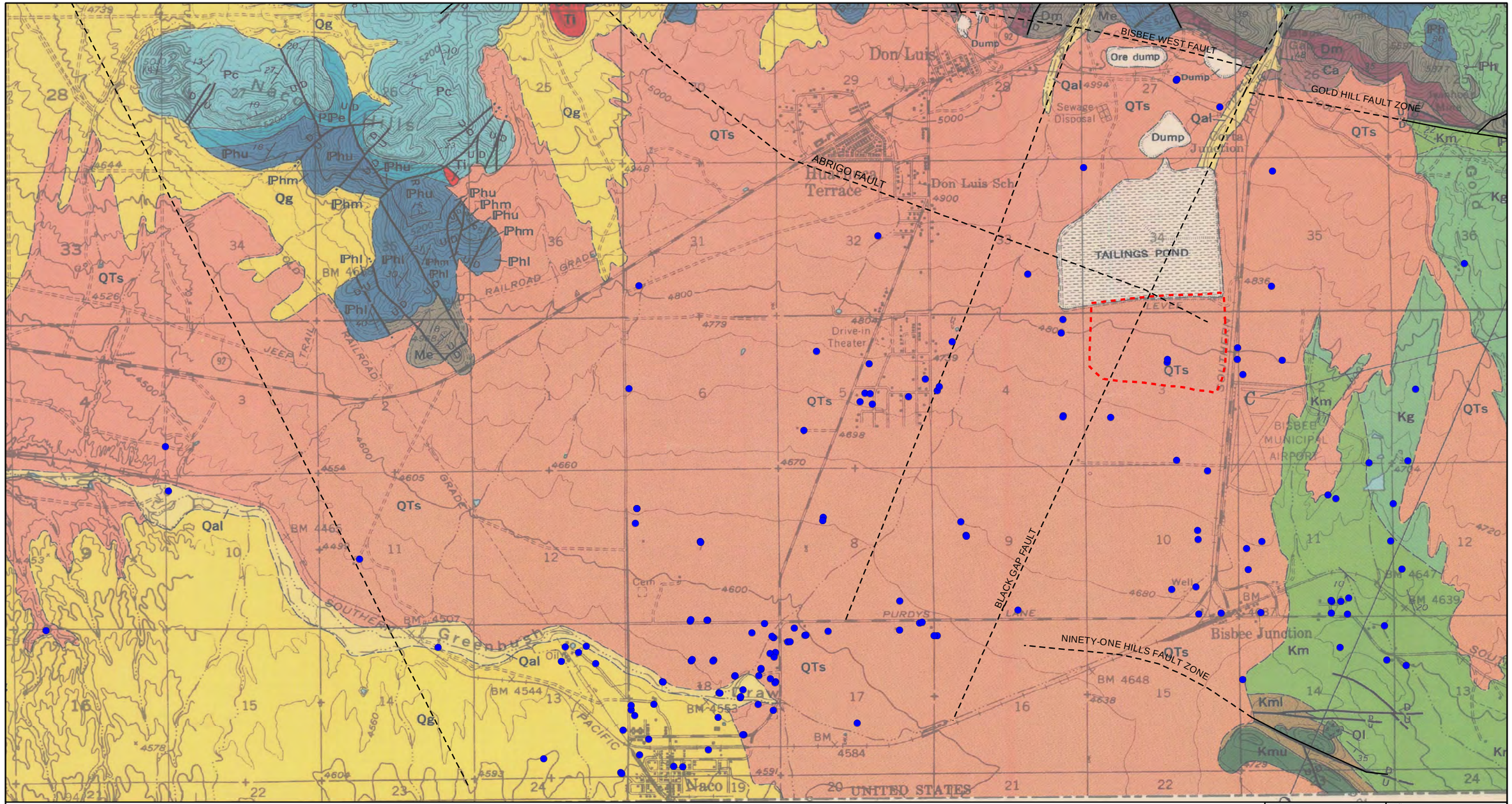
0 1 2

Projection: UTM Zone 12N NAD83

Date	File ID
1/8/2025	055038-616

CLEAR CREEK ASSOCIATES

FIGURE 1
PROJECT LOCATION MAP



Legend

- Monitoring Location
- Fault (dashed where inferred)
- Former Evaporation Ponds

Geologic Unit - Hayes and Landis (1964)

Basin Fill
- Qal - Quaternary Alluvium
- Qg - Quaternary Gravel
- QTs - Quaternary Tertiary sediment
- Ti - Tertiary Intrusive

Bisbee Group
- Kc - Cintura Formation (not shown)
- Kmu - Upper Mural Limestone
- Kml - Lower Mural Limestone
- Km - Morita Formation
- Kg - Glance Conglomerate

Paleozoic Sedimentary Formations
- Pc - Colina Limestone
- PPe - Earp Formation
- Phu, Phm, Phl - Horquilla Limestone
- Me - Escabrosa Limestone
- Dm - Martin Limestone
- Ca - Abrigo Limestone

See Figure 3 for Monitoring Location Names

Scale (Feet)

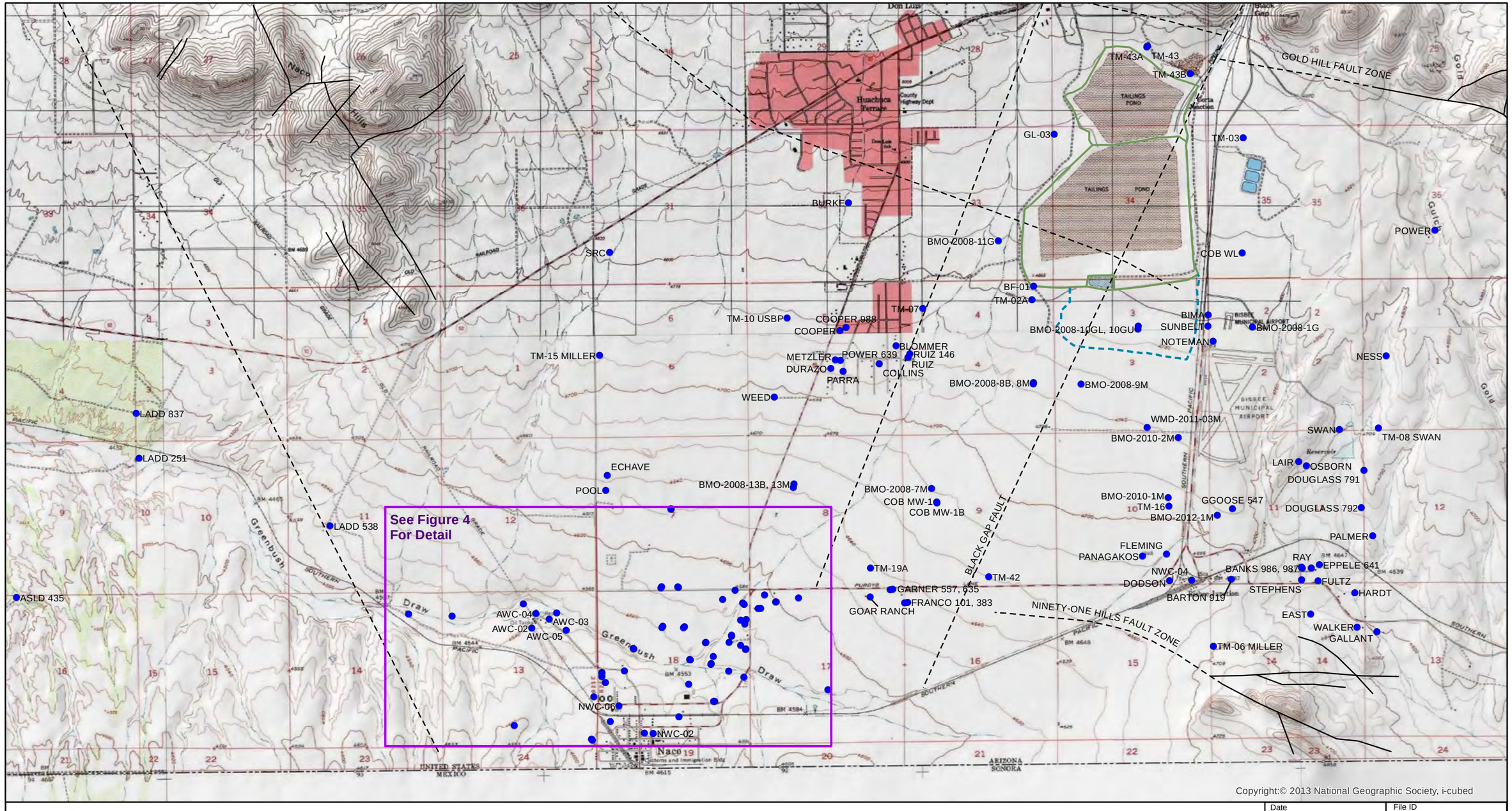
0 3,000 6,000

Projection: UTM Zone 12N NAD83
Geology reprinted from Hayes and Landis (1964) USGS Miscellaneous Geologic Investigations I-418

Date	File ID
12/7/2023	055038-567

CLEAR CREEK ASSOCIATES

FIGURE 2
GEOLOGIC MAP
WITH MONITORING LOCATIONS



Legend

- Monitoring Location
- CTSA Facility
- Former Evaporation Ponds
- Fault (dashed where inferred)

Scale (Feet)

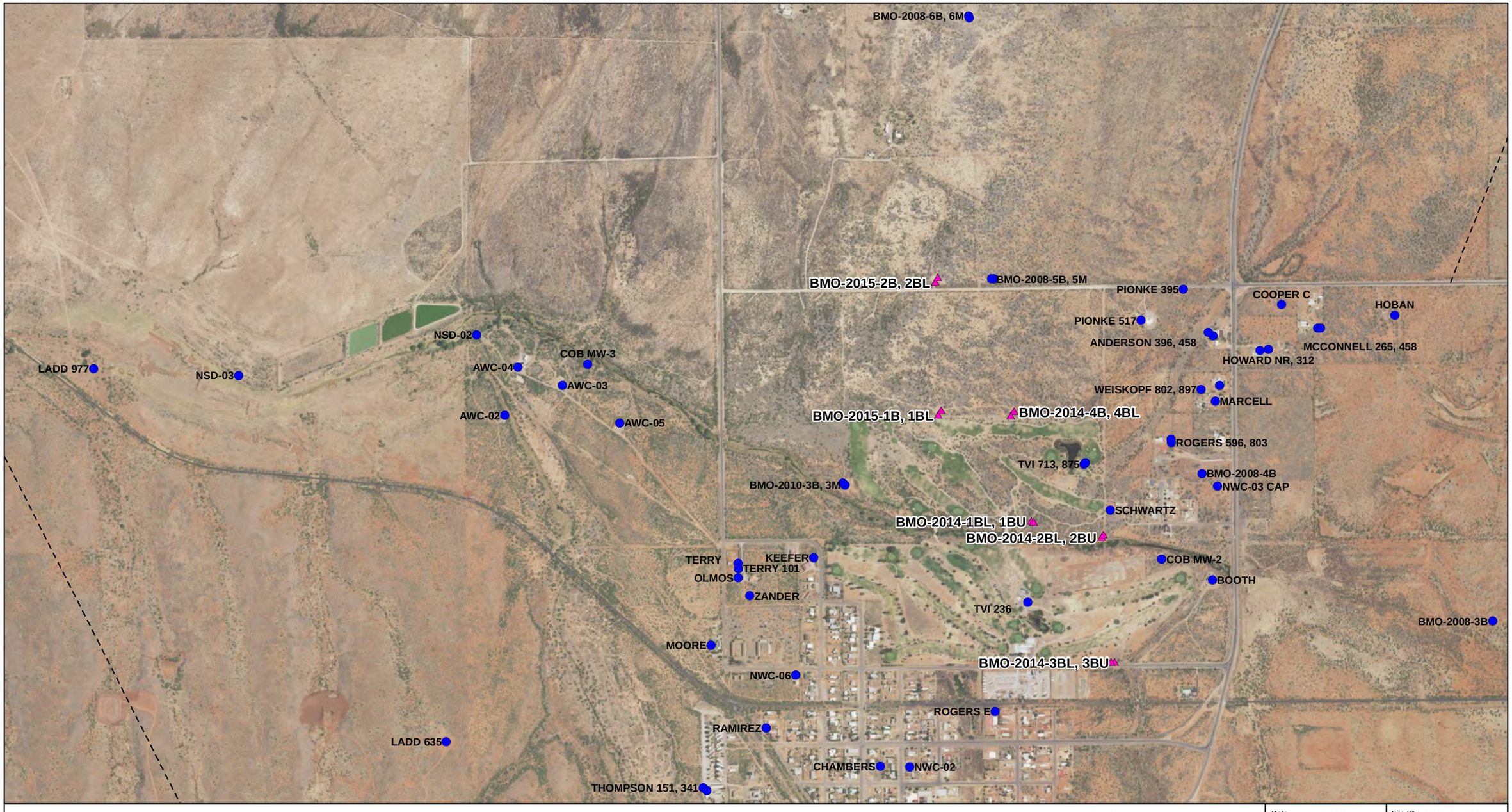
0 3,000 6,000

Projection: UTM Zone 12N NAD83

Date	File ID
1/8/2025	055038-617

CLEAR CREEK ASSOCIATES

FIGURE 3
GROUNDWATER
MONITORING LOCATIONS



Legend

- Expanded Goundwater Monitoring Program Well
- Existing Well

Scale (Feet)

0 1,000 2,000

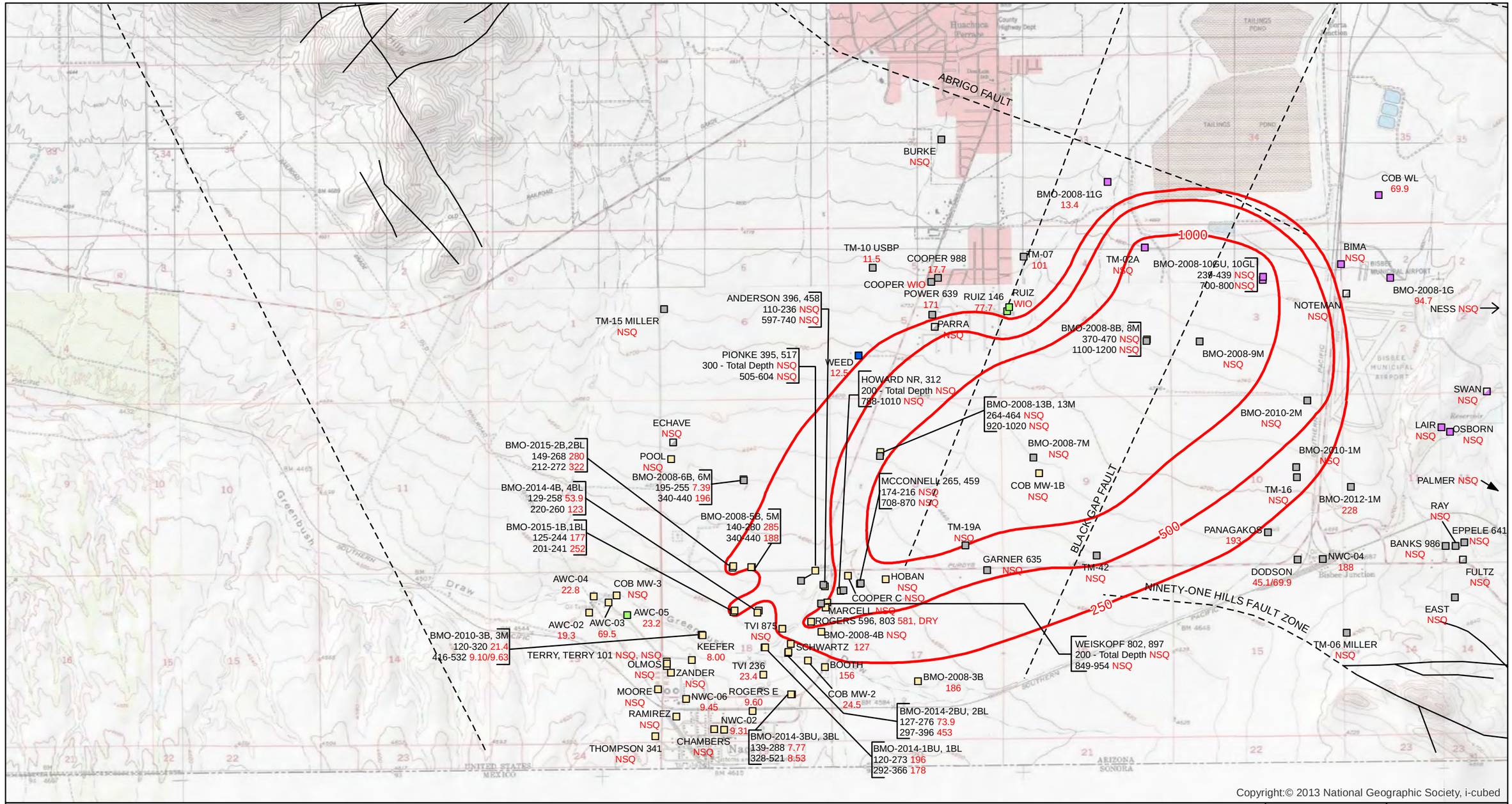
Projection: UTM Zone 12N
NAD83

Date 12/20/2023

File ID 055038-569

CLEAR CREEK ASSOCIATES

FIGURE 4
NACO AREA
WELL SITES



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Legend

- NWC-02 Well ID
- 9.31 Sulfate Concentration (mg/L)
- Duplicate results separated by "/"
- Sulfate Concentration Contour
- Fault (dashed where inferred)

Co-located Wells

- Well ID
- Screen (ft bls) Sulfate Concentration (mg/L)

Screened Formation

- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate - Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
NPA = No Property Access
NSQ = Not Scheduled for Quarter
WIO = Well Inoperable
mg/L = milligrams per liter
ft bls = feet below land surface
Sulfate contours are based on represented and historical data.
Projection: UTM Zone 12N NAD83

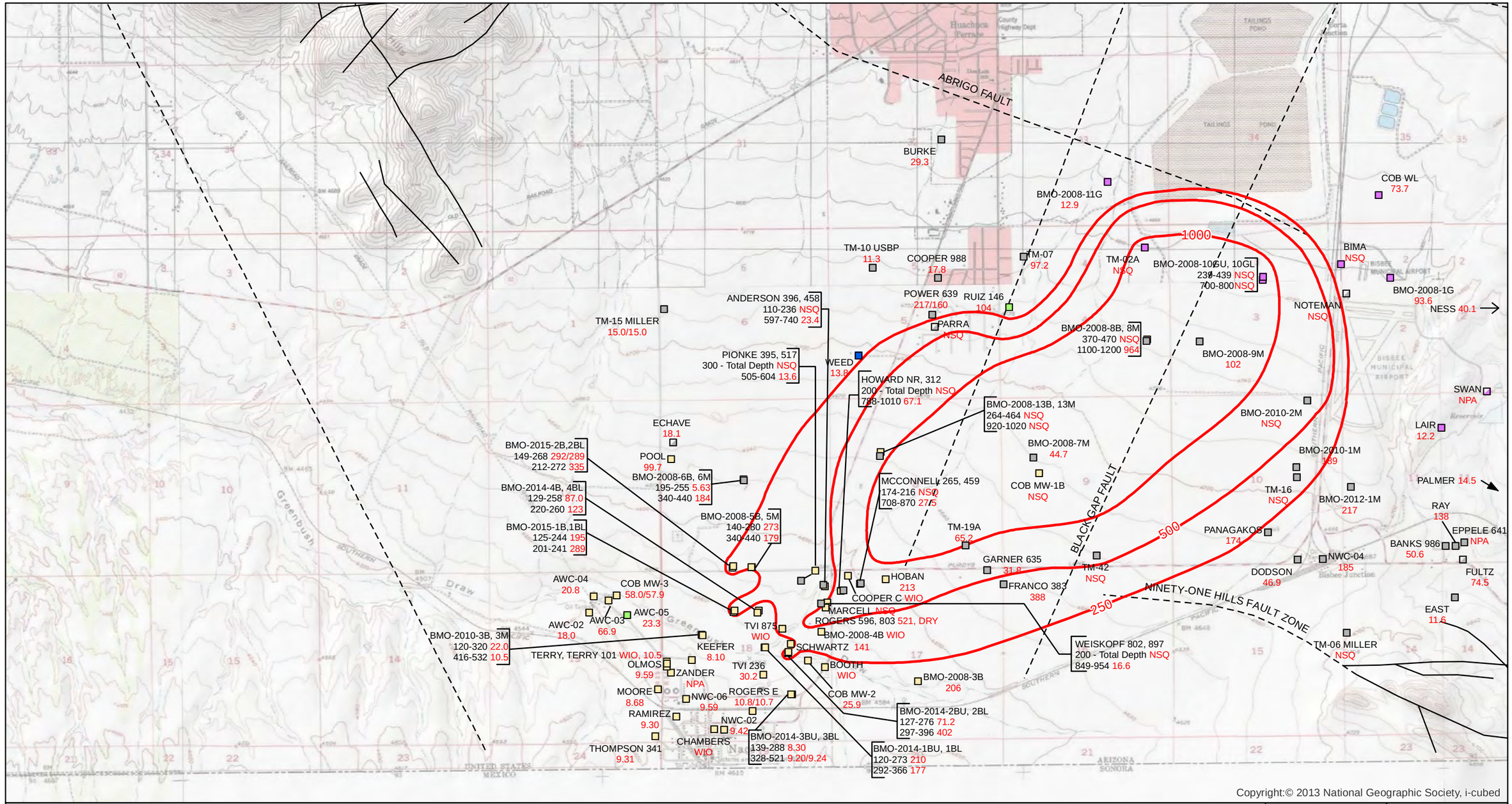
Scale (Feet)
0 3,000 6,000

Projection: UTM Zone 12N
NAD83

Date 11/7/2024
File ID 055038-606

CLEAR CREEK ASSOCIATES

FIGURE 5
SULFATE CONCENTRATIONS IN SITE-WIDE GROUNDWATER SAMPLES FOR FIRST QUARTER 2024



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Legend

NWC-02 Well ID
9.42 Sulfate Concentration (mg/L)
Duplicate results separated by "/"
Sulfate Concentration Contour
Fault (dashed where inferred)

Co-located Wells
Well ID
Screen (ft bls) Sulfate Concentration (mg/L)

Screened Formation
- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate - Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
NPA = No Property Access
NSQ = Not Scheduled for Quarter
WIO = Well Inoperable
mg/L = milligrams per liter
ft bls = feet below land surface
Sulfate contours are based on represented and historical data.
Projection: UTM Zone 12N NAD83

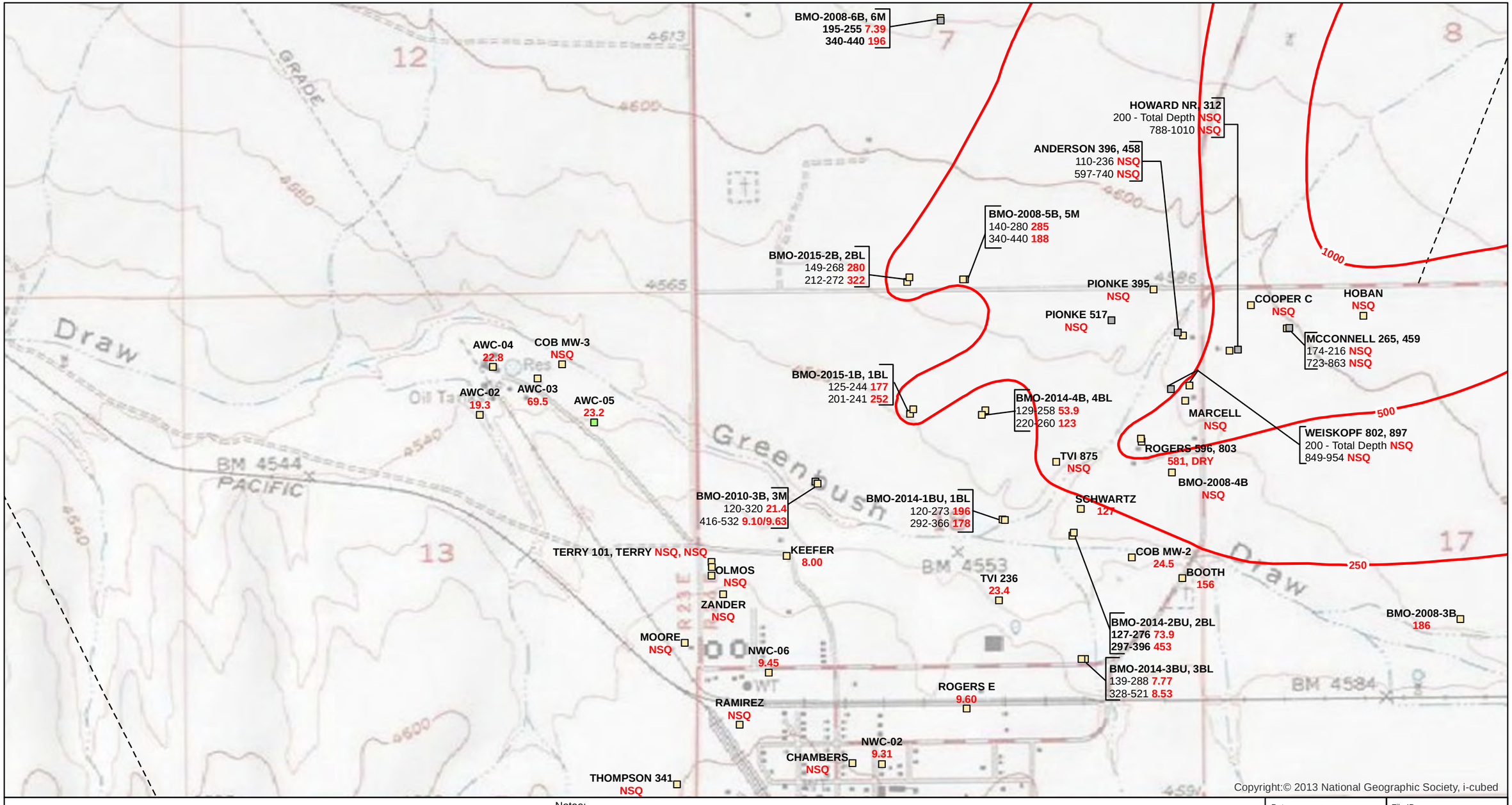
Scale (Feet)
0 3,000 6,000

Projection: UTM Zone 12N
NAD83

Date 2/3/2025
File ID 055038-610

CLEAR CREEK ASSOCIATES

FIGURE 6
SULFATE CONCENTRATIONS IN SITE-WIDE GROUNDWATER SAMPLES FOR THIRD QUARTER 2024



Legend

NWC-02 Well ID
9.31 Sulfate Concentration (mg/L)
Duplicate results separated by "/"
Sulfate Concentration Contour
Fault (inferred)

Co-located Wells
Well ID
Screen (ft bls) Sulfate Concentration (mg/L)

Screened Formation
- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate - Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

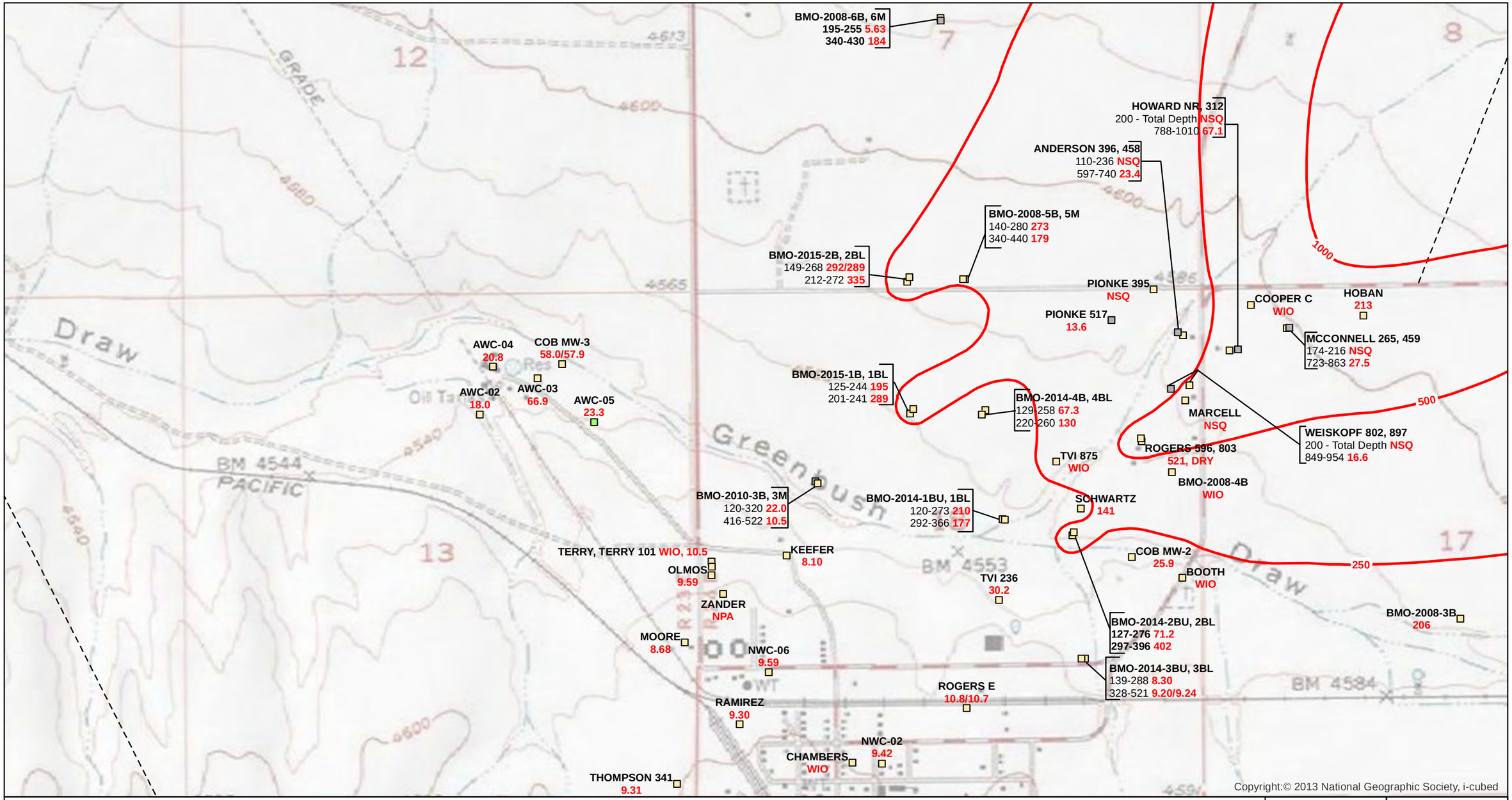
Notes:
NPA = No Property Access
NSQ = Not Scheduled for Quarter
WIO = Well Inoperable
mg/L = milligrams per liter
ft bls = feet below land surface
Sulfate contours are based on represented and historical data.

Scale (Feet)
0 1,000 2,000
Projection: UTM Zone12N
NAD83

Date 2/3/2025
File ID 055038-607

CLEAR CREEK ASSOCIATES

FIGURE 7
SULFATE CONCENTRATIONS AT THE WEST EDGE OF THE PLUME FOR FIRST QUARTER 2024



Legend

- **NWC-02** Well ID
- 9.42 Sulfate Concentration (mg/L)
- Duplicate results separated by "/"
- Sulfate Concentration Contour
- Fault (Inferred)

Co-located Wells
- Well ID
- Screen (ft bls) Sulfate Concentration (mg/L)

Screened Formation
- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate - Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
NPA = No Property Access
NSQ = Not Scheduled for Quarter
WIO = Well Inoperable
mg/L = milligrams per liter
ft bls = feet below land surface
Sulfate contours are based on represented and historical data.

Scale (Feet)
0 1,000 2,000

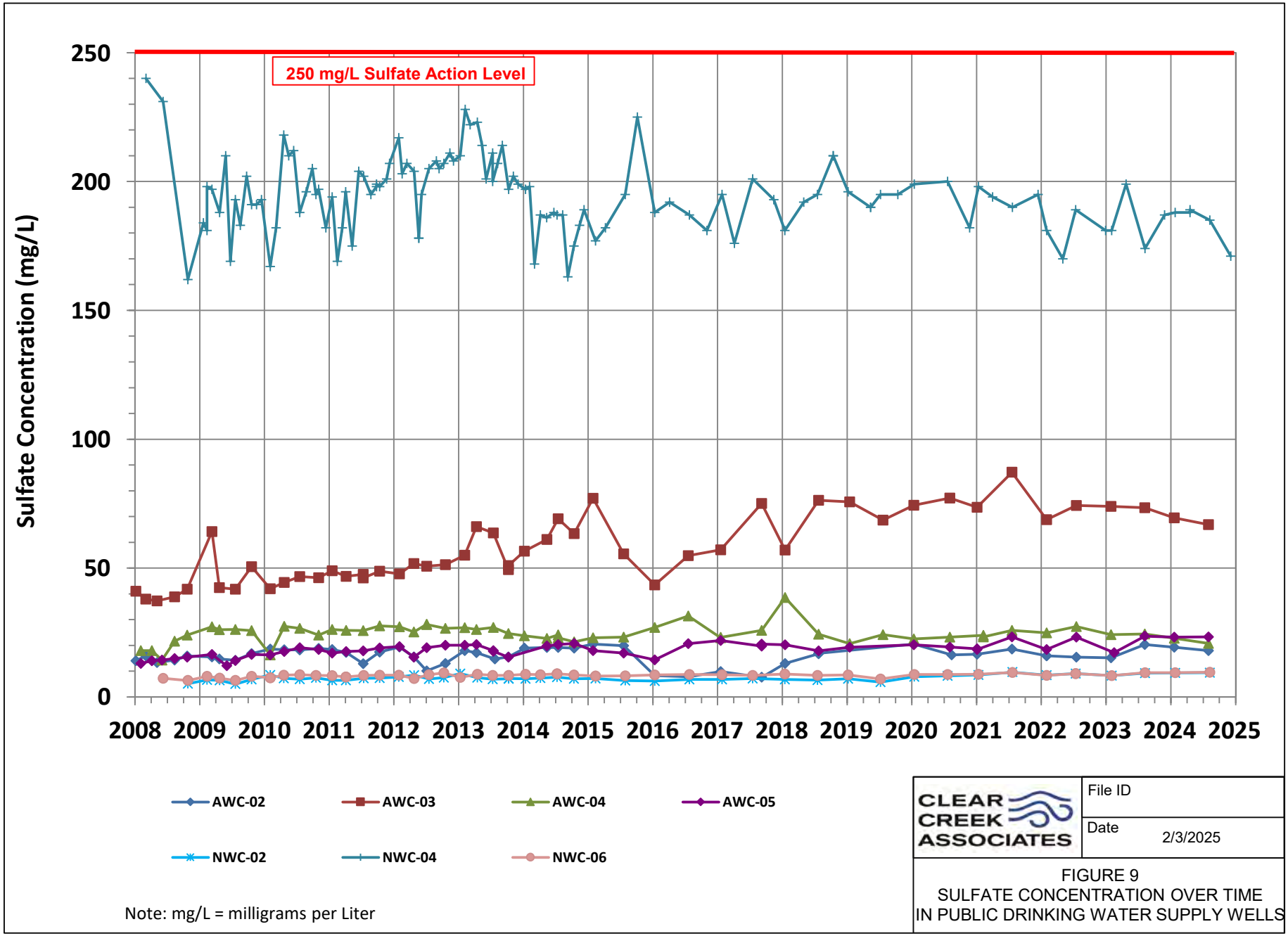
Projection: UTM Zone12N
NAD83

Date 2/3/2025

File ID 055038-612

CLEAR CREEK ASSOCIATES

FIGURE 8
SULFATE CONCENTRATIONS AT THE WEST EDGE OF THE PLUME FOR THIRD QUARTER 2024



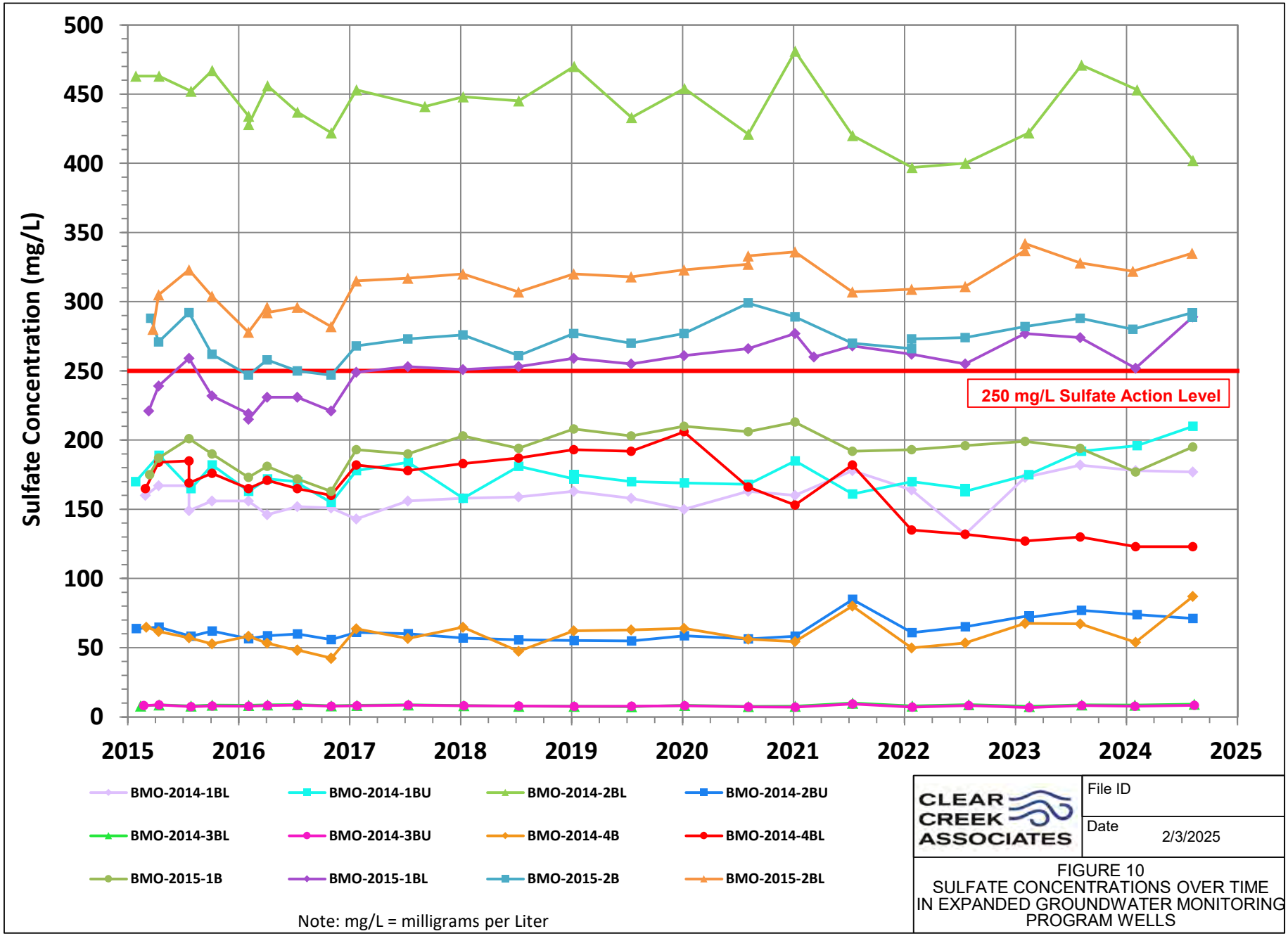
Note: mg/L = milligrams per Liter

CLEAR CREEK ASSOCIATES

File ID

Date 2/3/2025

FIGURE 9
SULFATE CONCENTRATION OVER TIME
IN PUBLIC DRINKING WATER SUPPLY WELLS



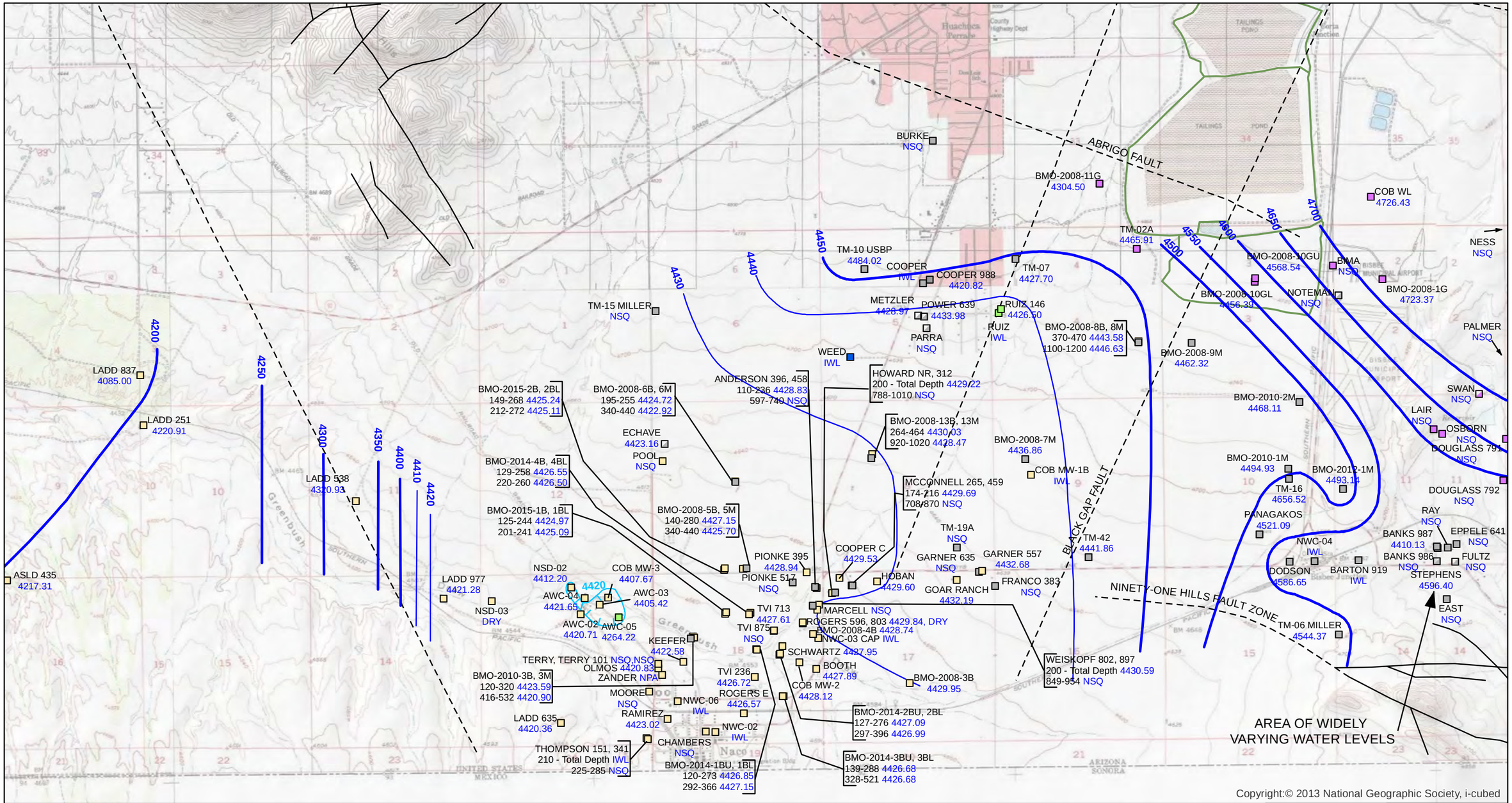
Note: mg/L = milligrams per Liter

CLEAR CREEK ASSOCIATES

File ID

Date 2/3/2025

FIGURE 10
SULFATE CONCENTRATIONS OVER TIME
IN EXPANDED GROUNDWATER MONITORING
PROGRAM WELLS



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Legend

- AWC-05 Well ID
- 4264.22 Groundwater Elevation (ft amsl)
- Groundwater Elevation Contours (10 ft)
- Groundwater Elevation Contours (50 ft)
- Groundwater Depression
- Faults (dashed where inferred)
- CTSA Facility

Co-located Wells
- Well ID
- Screen (ft bls) Water Elevation (ft amsl)

Screened Formation
- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate-Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
IWL = Inaccesible for Water Level
NPA = No Property Access
NSQ = Not Scheduled for Quarter
ft amsl = feet above mean sea level
ft bls = feet below land surface

Scale (Feet)
0 3,000 6,000

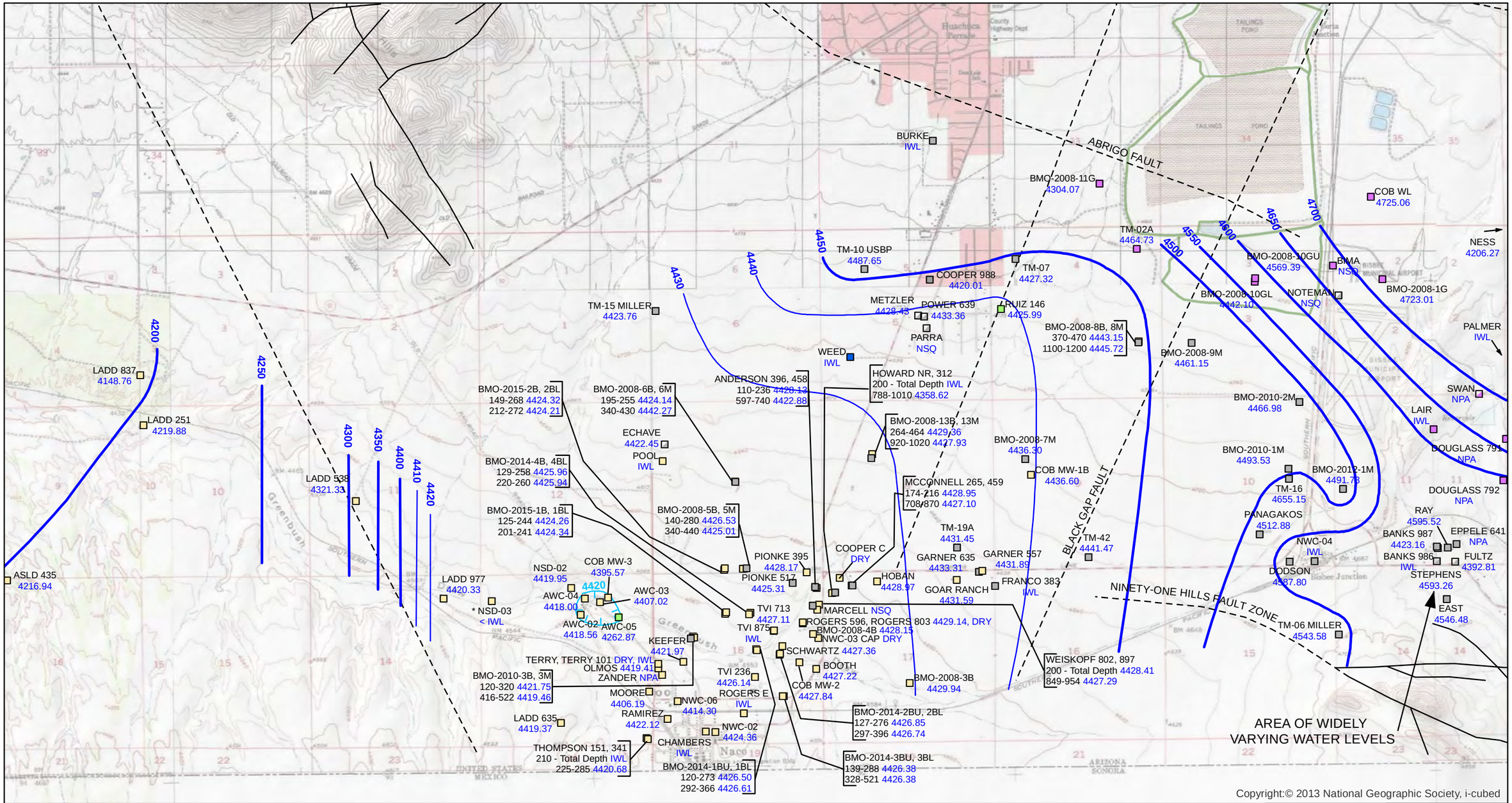
Projection: UTM Zone 12N NAD83

Date 6/10/2024

File ID 055038-604

CLEAR CREEK ASSOCIATES

FIGURE 11
SITE-WIDE
GROUNDWATER ELEVATIONS
FOR FIRST QUARTER 2024



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Legend

- AWC-04 Well ID
- 4418.00 Groundwater Elevation (ft amsl)
- Groundwater Elevation Contours (10 ft)
- Groundwater Elevation Contours (50 ft)
- (dashed where inferred)
- Faults (dashed where inferred)
- CTSA Facility
- Co-located Wells
  - Well ID
  - Screen (ft bls) Water Elevation (ft amsl)

Screened Formation

- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate-Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
IWL = Inaccesible for Water Level
NPA = No Property Access
NSQ = Not Scheduled for Quarter
ft amsl = feet above mean sea level
ft bls = feet below land surface

Scale (Feet)
0 3,000 6,000

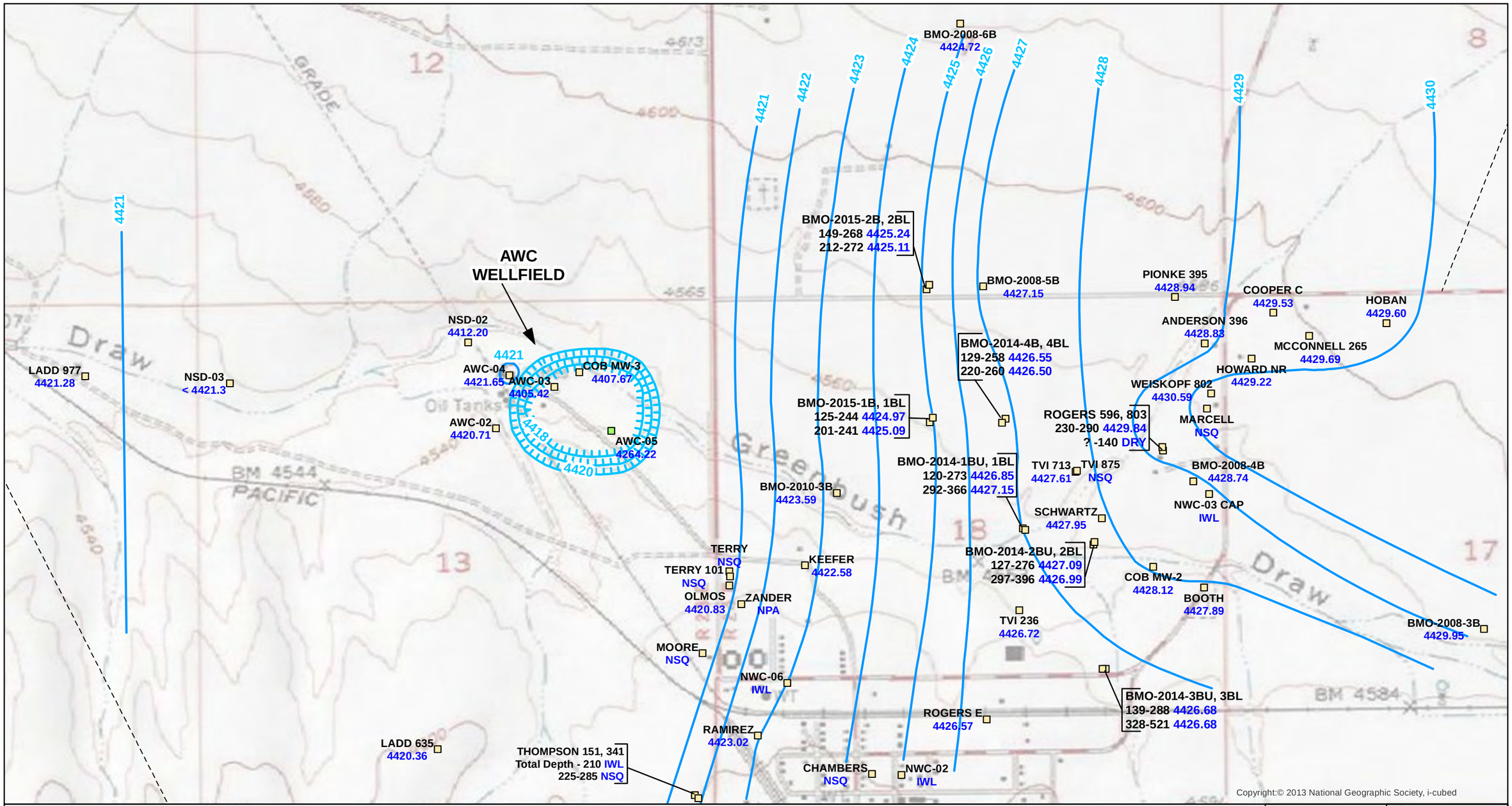
Projection: UTM Zone 12N NAD83

Date 2/3/2025

File ID 055038-611

CLEAR CREEK ASSOCIATES

FIGURE 12
SITE-WIDE
GROUNDWATER ELEVATIONS
FOR THIRD QUARTER 2024



Legend

- **AWC-02** Well ID
- 4420.71 Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
- Groundwater Elevation Depression Contour (ft amsl)
- Fault (inferred)

Co-located Wells
- Well ID
- Screen (ft bls) Water Elevation (ft amsl)

Screened Formation
- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate-Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
IWL = Inaccesible for Water Level
NPA = No Property Access
NSQ = Not Scheduled for Quarter
ft amsl = feet above mean sea level
ft bls = feet below land surface
*NSD-03 water level was below the top of the installed pump at 4432.8 ft amsl in Q3 2023. An estimated groundwater elevation of between 4422 and 4423.8 ft amsl is based on historic trends.

Scale (Feet)
0 1,000 2,000

Projection: UTM Zone 12N
NAD83

Date	File ID
2/27/2025	055038-605

CLEAR CREEK ASSOCIATES

FIGURE 13
BASIN FILL
GROUNDWATER ELEVATIONS
AT THE WEST EDGE OF THE PLUME
FOR FIRST QUARTER 2024

AWC WELLFIELD

BMO-2008-6B 4424.14

BMO-2015-2B, 2BL
149-268 4424.32
212-272 4424.21

BMO-2008-5B 4426.53

BMO-2014-4B, 4BL
129-258 4425.96
220-260 4425.94

BMO-2015-1B, 1BL
125-244 4424.26
201-241 4424.34

BMO-2014-1BU, 1BL
120-273 4426.50
292-366 4426.61

BMO-2014-2BU, 2BL
127-276 4426.85
297-396 4426.74

BMO-2014-3BU, 3BL
139-288 4426.38
328-521 4426.38

NSD-02 4419.95
NSD-03 DRY
LADD 977 4420.33
AWC-04 4418.00
AWC-03 4407.02
COB MW-3 4395.57
AWC-02 4418.56
AWC-05 4262.87
LADD 635 4419.37
THOMPSON 151, 341
Total Depth - 210 IWL
225-285 4420.68
BMO-2010-3B 4421.75
TERRY DRY
TERRY 101 IWL
OLMOS 4419.41
ZANDER NPA
KEEFER 4421.97
MOORE 4406.19
NWC-06 4414.30
RAMIREZ 4422.12
CHAMBERS IWL
NWC-02 4424.36
ROGERS E IWL
TVI 236 4426.14
SCHWARTZ 4427.36
TVI 713 4427.11
TVI 875 IWL
ROGERS 596, 803
230-290 4429.14
? -140 DRY
PIONKE 395 4428.17
ANDERSON 396 4428.13
WEISKOPF 802 4428.41
MARCELL NSQ
COOPER C DRY
HOBAN 4428.97
MCCONNELL 265 4428.95
HOWARD NR IWL
BMO-2008-4B 4428.15
NWC-03 CAP DRY
COB MW-2 4427.84
BOOTH 4427.22
BMO-2008-3B 4429.94

4420 4421 4422 4423 4424 4425 4426 4427 4428 4429 4419 4416

GRADE Draw PACIFIC Greenbush Draw BM 4544 BM 4584

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Legend

- **AWC-04** Well ID
- 4418.00 Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
- Groundwater Elevation Depression Contour (ft amsl)
- Fault (inferred)

Co-located Wells
- Well ID
- Screen (ft bls) Water Elevation (ft amsl)

Screened Formation
- Basin Fill
- Basin Fill and Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group
- Undifferentiated Bisbee Group - Estimated
- Undifferentiated Bisbee Group and Glance Conglomerate
- Glance Conglomerate
- Glance Conglomerate-Estimated

Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

Notes:
IWL = Inaccesible for Water Level
NPA = No Property Access
ft amsl = feet above mean sea level
ft bls = feet below land surface

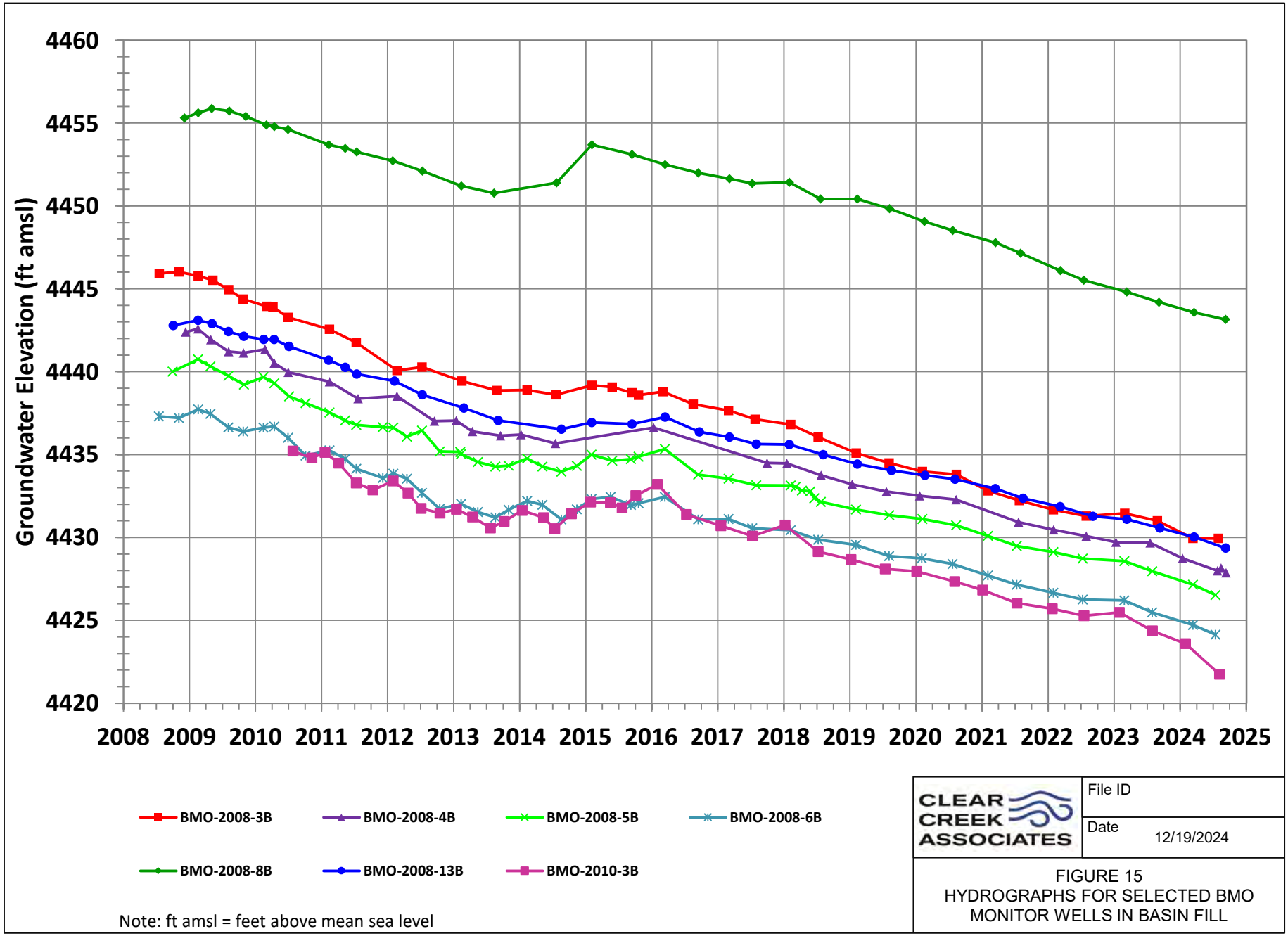
Scale (Feet)
0 1,000 2,000

Projection: UTM Zone 12N
NAD83

Date 2/3/2025
File ID 055038-613

CLEAR CREEK ASSOCIATES

FIGURE 14
BASIN FILL
GROUNDWATER ELEVATIONS
AT THE WEST EDGE OF THE PLUME
FOR THIRD QUARTER 2024



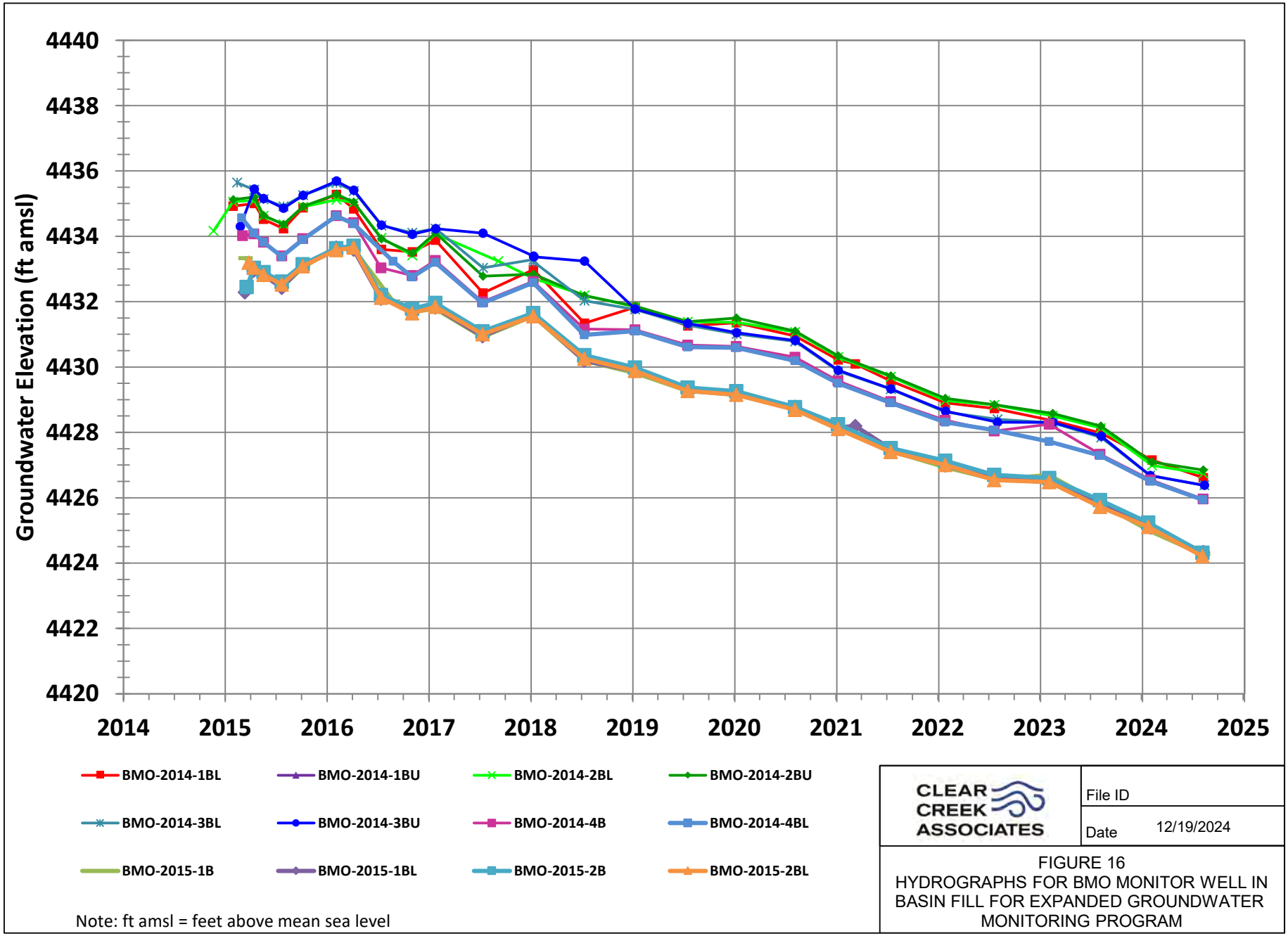
Note: ft amsl = feet above mean sea level

CLEAR CREEK ASSOCIATES

File ID

Date 12/19/2024

FIGURE 15
HYDROGRAPHS FOR SELECTED BMO MONITOR WELLS IN BASIN FILL



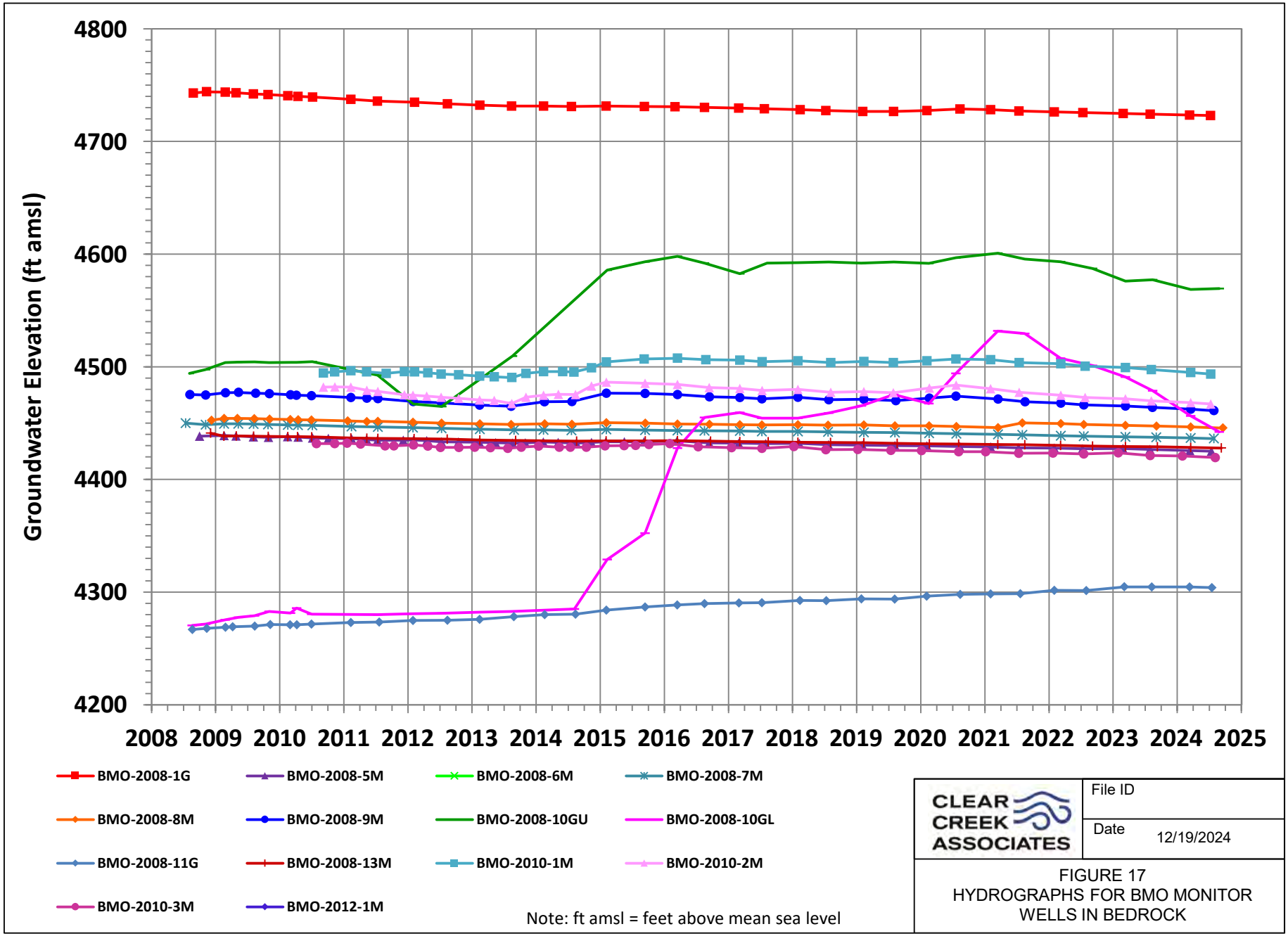
Note: ft amsl = feet above mean sea level

CLEAR CREEK ASSOCIATES

File ID

Date 12/19/2024

FIGURE 16
HYDROGRAPHS FOR BMO MONITOR WELL IN BASIN FILL FOR EXPANDED GROUNDWATER MONITORING PROGRAM



Note: ft amsl = feet above mean sea level

CLEAR CREEK ASSOCIATES

File ID

Date 12/19/2024

FIGURE 17
HYDROGRAPHS FOR BMO MONITOR WELLS IN BEDROCK

Appendix A

Groundwater Sampling Forms

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/18/24

Well ID: ANDERSON 396 Weather: Clr 60s

ADWR No: 613396 Sampler: GM

WELL DATA

Well Depth (ft bls): 285

Casing Diameter (in): 8

Static Water Level (ft bmp): 159.68

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/22/24

Well ID: AWL-02 | Weather: cloudy

ADWR No: 616586 | Sampler: JRH

WELL DATA

Well Depth (ft bls):	333
Casing Diameter (in):	2|
Static Water Level (ft bmp):	126.93
Casing Volume (gal):	3361 x3 = ~~1008~~ 1008
Total Volume Purged (gal):	616586

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1202	Pump On						
1232	30	97	2910	7.54	19.5	562	
1312	60	97	5820	7.38	19.3	564	
1332	90	97	8730	7.37	19.2	561	
1347	105	97	10195	7.38	19.1	563	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWL-02	1347	Poly	250	1	300.0	N/P	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/22/24

Well ID: AWC-03 Weather: cloudy

ADWR No: 616585 Sampler: JRM

WELL DATA

Well Depth (ft bls): 270

Casing Diameter (in): 16

Static Water Level (ft bmp): ~~134.10~~ 134.10 *

Casing Volume (gal): ~~1414.80~~ 1418 x3 = 4256

Total Volume Purged (gal): 11700

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1046	Pump On						
1049	3	700	2100	7.61	18.8	533	
1054	8	700	5100	7.57	19.5	526	
1059	13	700	1100	7.55	19.5	525	
							Pump Off 1100

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: ~~Spigot at / near wellhead~~ Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWC-03	1100	Poly	250	1	300.0	~~NAH~~ NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: used to have 2 sounding tubes, now has 1

* Sounded by AWC, CCA sounder doesn't fit

** ~~Bmp is pad~~ (Sounding tube cut to pad height)

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/22/24

Well ID: AwC-04 Weather: cloudy

ADWR No: 616584 Sampler: TKH

WELL DATA

Well Depth (ft bls): 337

Casing Diameter (in): 16

Static Water Level (ft bmp): 118.83

Casing Volume (gal): 2279 x3 = 6833

Total Volume Purged (gal): 12458

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1124	Pump On						
1129	5	930*	4150	7.19	18.4	750	
1134	10	830	8300	7.15	18.5	752	
1139	15	850	12450	7.13	18.5	755	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AwC-04	1140	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

* - From previous data cannot take gpm

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/22/24

Well ID: AWL-05 | Weather: cloudy

ADWR No: ~~613346~~ 590620 | Sampler: JRH

WELL DATA

Well Depth (ft bls):	1183
Casing Diameter (in):	16
Static Water Level (ft bmp):	278.29
Casing Volume (gal):	9445 x3 = 28,335
Total Volume Purged (gal):	29240

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0913	Pump On						
0923	10	680	6800	6.28	20.3	464	
0933	20	680	13600	7.46	20.4	442	
0943	30	680	20400	7.56	20.3	438	
0953	40	680	27200	7.57	20.5	458	
0956	43	29240					sample taken
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWL-05	0956	Poly	250	1		N/P	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/17/24

Well ID: BANKS 987 Weather: Clr 40s

ADWR No: 647987 Sampler: GL

WELL DATA

Well Depth (ft bls): 339

Casing Diameter (in): 6

Static Water Level (ft bmp): 238.05

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/17/24

Well ID: BARTON 919 Weather: Clr 40s

ADWR No: 644919 Sampler: CM

WELL DATA

Well Depth (ft bls): 130

Casing Diameter (in): 6

Static Water Level (ft bmp): IWL

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WLO					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☒ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☒ Other: WLO

Additional Comments: Well Obstructed at 40 ft bmp.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-12-24

Well ID: BMO-2008-1G Weather: Sunny

ADWR No: Sampler: Christopher L. Shamm

WELL DATA

Well Depth (ft bls): 310

Casing Diameter (in): 5

Static Water Level (ft bmp): 81.73

Casing Volume (gal): 2328 x3 = 698.5

Total Volume Purged (gal): 747

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0600	Pump On						
0630	30	8.3	249	7.21	20.7	843	
0700	60	8.3	498	7.24	21.0	834	
0730	90	8.3	747	7.26	21.2	830	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-1G	0730	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 228.2

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-13-24

Well ID: BMO-2008-3B Weather: Sunny

ADWR No: Sampler: Chris Fogle & Sherman

WELL DATA

Well Depth (ft bls): 260

Casing Diameter (in): 5

Static Water Level (ft bmp): 154.02

Casing Volume (gal): 108.1 x3 = 324.3

Total Volume Purged (gal): 540

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1430	Pump On						
1440	10	27	135	7.24	21.6	748	
1445	15	27	405	7.28	20.9	710	
1450	20	27	540	7.29	20.6	717	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-3B	1450	PL	250	1	300	Ice	X

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 106

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/15/23

Well ID: BMO-2008-4B Weather: 50s Clr

ADWR No: 55-910076 Sampler: CW

WELL DATA

Well Depth (ft bls): 610

Casing Diameter (in): 5

Static Water Level (ft bmp): ~~144.45~~ *

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLC							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLC

Additional Comments: Faucet open and water running out. Unclear how long pump was running and if pump was restored

* 1/18/24 SWL = 144.43 ft bmp w/ well OFF for few days

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-13-24

Well ID: BMO-2008-5B | Weather: Sunny

ADWR No: | Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls): 285

Casing Diameter (in): 5

Static Water Level (ft bmp): 157.95

Casing Volume (gal): 129.6 x3 = 388.9

Total Volume Purged (gal): 675

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1330	Pump On						
1335	5	27	135	7.26	21.4	875	
1345	15	27	405	7.22	21.5	864	
1355	25	27	675	7.25	21.4	865	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-5B	1355	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [x] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

127.1

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-13-24

Well ID: BMO-2008-5M Weather: Sunny

ADWR No: Sampler: Christopher L. Sharman

WELL DATA

Well Depth (ft bls): 450

Casing Diameter (in): 5

Static Water Level (ft bmp): 159.32

Casing Volume (gal): 296.5 x3 = 889.5

Total Volume Purged (gal): 990

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1230	Pump On						
1255	25	18	450	7.30	22.2	719	
1315	45	18	810	7.33	22.1	714	
1325	55	18	990	7.32	22.3	714	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-5M	1325	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

2947

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030
Client: Freeport Copper Queen Branch
Task No:
Date: 3-13-24
Well ID: BMO-2008-6B
Weather: Sunny
ADWR No:
Sampler: Christopher L Shumway

WELL DATA

Well Depth (ft bls): 265
Casing Diameter (in): 5
Static Water Level (ft bmp): 202.72
Casing Volume (gal): 63.5 x3 = 191
Total Volume Purged (gal): 225

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1125	Pump On						
1140	15	5.1	75	7.20	21.0	294	
1155	30	5.1	150	7.25	21.2	296	
1210	45	5.1	225	7.26	20.9	293	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-6B	1210	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 12.3

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-13-24

Well ID: BMO-2008-6M Weather: Sunny

ADWR No: Sampler: Christopher L Slamm

WELL DATA

Well Depth (ft bls):	450
Casing Diameter (in):	5
Static Water Level (ft bmp):	203.98
Casing Volume (gal):	251 x3 = 753
Total Volume Purged (gal):	840

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1030	Pump On						
1050	20	21	420	7.28	21.8	719	
1100	30	21	630	7.31	21.9	716	
1110	40	21	840	7.34	21.7	720	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-6M	1110	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

246.1

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-2008-7M Weather: Sunny

ADWR No: Sampler: Christopher L Slumm

WELL DATA

Well Depth (ft bls): 670

Casing Diameter (in): 5

Static Water Level (ft bmp): 251.47

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-2008-8B Weather: Sunny

ADWR No: Sampler: Christopher L Shumway

WELL DATA

Well Depth (ft bls): 480

Casing Diameter (in): 5

Static Water Level (ft bmp): 309.67

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-200B-8M Weather: Sunny

ADWR No: Sampler: Christopher L Stevens

WELL DATA

Well Depth (ft bls): 1210

Casing Diameter (in): 5

Static Water Level (ft bmp): 305.82

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-2008-9M Weather: Sunny

ADWR No: Sampler: Christopher L Shumway

WELL DATA

Well Depth (ft bls): 725

Casing Diameter (in): 5

Static Water Level (ft bmp): 390.29

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-2008-106L Weather: Sunny

ADWR No: Sampler: Christopher L Sloan

WELL DATA

Well Depth (ft bls): 810

Casing Diameter (in): 5

Static Water Level (ft bmp): 335.82

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-1008-10 GU Weather: Sunny

ADWR No: Sampler: Christopher L Sloan

WELL DATA

Well Depth (ft bls): 449

Casing Diameter (in): 5

Static Water Level (ft bmp): 224.91

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-12-24

Well ID: BMO-2008-11G Weather: Sunny

ADWR No: Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bls):	760
Casing Diameter (in):	5
Static Water Level (ft bmp):	540.17
Casing Volume (gal):	224.2 x3 = 673
Total Volume Purged (gal):	720

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1200	Pump On						
1230	30	8	240	7.74	24.8	375	
1300	60	8	480	7.78	24.6	376	
1330	90	8	720	7.79	24.7	377	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-11G	1330	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 219.8

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMO-2008-13B Weather: Sunny

ADWR No: Sampler: Christopher L Sloan

WELL DATA

Well Depth (ft bls): 425

Casing Diameter (in): 5

Static Water Level (ft bmp): 219.18

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030
Client: Freeport Copper Queen Branch
Task No:
Date: 3-19-24
Well ID: BMO-2008-13M
Weather: Sunny
Sampler: Christopher Lekan
ADWR No:

WELL DATA

Well Depth (ft bls):	1030
Casing Diameter (in):	5
Static Water Level (ft bmp):	218.66
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: BMP-2010-1M Weather: Sunny

ADWR No: Sampler: Christopher L Shrum

WELL DATA

Well Depth (ft bls): 550

Casing Diameter (in): 5

Static Water Level (ft bmp): 223.62

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 3-19-24

Well ID: BMO-2014-2M | Weather: Sunny

ADWR No: | Sampler: Christopher L Shirey

WELL DATA

Well Depth (ft bls): 380

Casing Diameter (in): 5

Static Water Level (ft bmp): 278.05

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/31/24

Well ID: BMO-2010-3B Weather: clear

ADWR No: 219470 Sampler: JH

WELL DATA

Well Depth (ft bls): 330

Casing Diameter (in): 5

Static Water Level (ft bmp): 127.05

Casing Volume (gal): 207.06 x3 = 621.18

Total Volume Purged (gal): 640

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0849	Pump On						
0904	20	8	160	7.51	19.0	432	
0929	40	8	320	7.64	19.1	427	
0949	60	8	480	7.67	19.3	424	
1009	80	8	640	7.57	19.1	424	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2010-3B	1013	Poly	250	1	300.0	N/A	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/31/24

Well ID: BMW-2010-3M Weather: clear

ADWR No: 219964 Sampler: JRH

WELL DATA

Well Depth (ft bls): 532

Casing Diameter (in): 5

Static Water Level (ft bmp): 129.63

Casing Volume (gal): 410 x3 = 1231

Total Volume Purged (gal): 1240

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1022	Pump On						
1052	30	8	240	7.76	20.7	376	
1122	60	8	480	7.68	21.2	385	
1152	90	8	720	7.77	21.2	384	
1222	120	8	960	7.67	21.1	384	
1252	150	8	1200	7.59	21.1	383	
1257	155	8	1240	7.70	21.5	382	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMW-2010-3M	1300	Poly	250	1	300.0	NP	Y
DUP20240131	1300	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-12-24

Well ID: BMO-2012-1M Weather: Sunny

ADWR No: Sampler: Christopher L Sterns

WELL DATA

Well Depth (ft bls): 405

Casing Diameter (in): 5

Static Water Level (ft bmp): 226.62

Casing Volume (gal): 182 x3 = 546

Total Volume Purged (gal): 600

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0930	Pump On						
1000	30	6	180	7.33	22.8	929	
1030	60	6	360	7.29	22.8	932	
1105	95	6	570	7.25	22.7	935	
1110	100	6	600	7.28	22.5	930	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2012-1M	1110	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

178.4

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 2/6/24

Well ID: BMO-2014-1BL | Weather: cloudy

ADWR No: 917394 | Sampler: TKH

WELL DATA

Well Depth (ft bls): 366

Casing Diameter (in): 5

Static Water Level (ft bmp): ~~13.30~~ 131.30

Casing Volume (gal): 239 x3 = 719

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1138	Pump On						
1153	15	15	225	7.77	20.9	716	
1208	30	15	450	7.53	20.5	716	
1223	45	15	675	7.61	20.0	715	
1233	55	15	825	7.60	20.4	713	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-1BL	1235	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 2/6/24

Well ID: BMO-20M-113y Weather: cloudy

ADWR No: 917393 Sampler: JKH

WELL DATA

Well Depth (ft bls): 273

Casing Diameter (in): 5

Static Water Level (ft bmp): 136.69

Casing Volume (gal): 110 x3 = 330

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1246	Pump On						
1301	15	6	90	7.55	20.1	796	
1316	30	6	180	7.46	20.1	793	
1331	45	6	270	7.48	20.3	773	
1346	60	6	360	7.47	20.2	760	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-20M-113y	1349	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: well 13 cascading and pad cracked

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 2/6/24

Well ID: BMW-2014-2BL Weather: Cloudy

ADWR No: 917452 Sampler: JKH

WELL DATA

Well Depth (ft bls): 346

Casing Diameter (in): 5

Static Water Level (ft bmp): 134.81

Casing Volume (gal): 267 x3 = 801

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0942	Pump On						
0957	15	17	255	7.62	18.6	1149	
1012	30	17	510	7.56	19.1	1159	
1027	45	17	765	7.56	19.4	1160	
1037	55	17	915	7.50	19.4	1156	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMW-2014-2BL	1040	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 2/6/24

Well ID: ~~2nd~~ BMW-2014-2BM | Weather: Cloudy

ADWR No: 917453 | Sampler: JKH

WELL DATA

Well Depth (ft bls):	276
Casing Diameter (in):	5
Static Water Level (ft bmp):	134.76
Casing Volume (gal):	144 x3 = 434
Total Volume Purged (gal):	505

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0834	Pump On						
0904	10	15	150	7.86	18.7	635	
0914	20	15	300	7.92	18.7	560	
0919	25	15	375	7.62	18.8	550	
0924	30	15	450	7.64	18.9	546	
0929	35	15	525	7.51	18.9	542	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMW-2014-2BM	0931	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/30/24

Well ID: BMO-2014-3BL Weather: cloudy

ADWR No: 917527 Sampler: JAH

WELL DATA

Well Depth (ft bls):	524
Casing Diameter (in):	5
Static Water Level (ft bmp):	147.09
Casing Volume (gal):	381.34 x3 = 1144
Total Volume Purged (gal):	1350

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1114	Pump On						
1134	15	30	450	7.67	20.1	418	
1144	30	30	900	7.57	20.2	410	
1207	45	30	1350	7.64	20.2	408	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-BL	1205	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: hand pumped

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/30/24

Well ID: BMW-2014-3Bu Weather: Clear

ADWR No: 917444 Sampler: TLH

WELL DATA

Well Depth (ft bls):	244
Casing Diameter (in):	5
Static Water Level (ft bmp):	148.21
Casing Volume (gal):	142.6 x3 = 427.7
Total Volume Purged (gal):	525

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1027	Pump On						
1032	5	15	75	7.66	19.3	504	
1042	15	15	225	7.65	19.1	468	
1052	25	15	375	7.66	19.1	468	
1102	35	15	525	7.63	19.2	468	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMW-2014-3B	1105	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/1/21

Well ID: 917620 JL | Weather: clear

ADWR No: BMO-2014-413 | Sampler: JRH

WELL DATA

Well Depth (ft bls): 258

Casing Diameter (in): 5

Static Water Level (ft bmp): 141.12

Casing Volume (gal): 119 x3 = 358

Total Volume Purged (gal): 375

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1053	Pump On						
1103	10	15	150	7.92	19.1	489	
1108	15	15	225	7.83	19.4	485	
1113	20	15	300	7.70	19.9	484	
1118	25	15	375	7.683	19.7	484	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-413	1121	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/1/2024

Well ID: BMO-2014-4BL Weather: clear

ADWR No: 917619 Sampler: JRH

WELL DATA

Well Depth (ft bls): 261

Casing Diameter (in): 5

Static Water Level (ft bmp): 140.35

Casing Volume (gal): 123 x3 = 369

Total Volume Purged (gal): 375

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1131	Pump On						
1141	10	15	150	7.70	20.0	551	
1146	15	15	225	7.63	20.0	580	
1151	20	15	300	7.62	20.1	590	
1156	25	15	375	7.59	19.9	595	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-4BL	1159	Poly	250	1	300.0	N/P	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 2/1/24

Well ID: 917623 Weather: clear

ADWR No: BMW-201S-1B Sampler: JRH

WELL DATA

Well Depth (ft bls): 244

Casing Diameter (in): 5

Static Water Level (ft bmp): 127.09

Casing Volume (gal): 109 x3 = 327

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0952	Pump On						
0957	5	15	75	7.69	19.2	694	
1002	10	15	225	7.62	19.2	727	
1012	20	10	300	7.69	19.2	723	
1017	25	10	375	7.51	19.2	727	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMW-201S-1B	1020 ~~0920~~	Poly	40	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 2/1/24

Well ID: BMO-2015-IBL Weather: clear

ADWR No: 227-917621 Sampler: DRH

WELL DATA

Well Depth (ft bls): 241

Casing Diameter (in): 5

Static Water Level (ft bmp): 138.31

Casing Volume (gal): 103 x3 = 309

Total Volume Purged (gal): 320

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0919	Pump On						
0924	5	20	80	7.48	19.1	954	
0929	10	20	160	7.59	19.2	850	
0934	15	20	240	7.68	19.3	854	
0939	20	20	320	7.61	19.3	8.50	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2015-IBL	0943	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/23/24

Well ID: BMW-2013-2D | Weather: raining

ADWR No: 617827 | Sampler: TJH

WELL DATA

Well Depth (ft bls): 278

Casing Diameter (in): 5

Static Water Level (ft bmp): 156.84

Casing Volume (gal): 113.38 x3 = 340.13

Total Volume Purged (gal): 420

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0859	Pump On						
0904	10	15	150	7.55	19.3	959	
0914	20	15	300	7.52	19.2	962	
0924	30	15	450	7.49	19.1	923	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMW-2013-2D	0930	poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/23/21

Well ID: BMW-2015-2BL Weather: raining

ADWR No: 917824 Sampler: J Hill

WELL DATA

Well Depth (ft bls): 272

Casing Diameter (in): 5

Static Water Level (ft bmp): 155.53

Casing Volume (gal): 119 x3 = 355

Total Volume Purged (gal): 360

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1004	Pump On						
1014	10	12	120	7.47	19.2	1013	
1024	20	12	240	7.38	19.4	998	
1034	30	12	360	7.45	19.2	992	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
~~BMW-2015-2BL~~	1038	Poly	250	1	300.0	NP	Y
BMW-2015-2BL							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/26/24

Well ID: BOOTH | Weather: clear

ADWR No: | Sampler: JLH

WELL DATA

Well Depth (ft bls): 240

Casing Diameter (in): 7

Static Water Level (ft bmp): 140.32

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1218	Pump On						
1223	5			7.68	18.3	692	
1228	10			7.69	15.7	686	
1233	15			7.94	16.9	688	
1238	20			7.52	16.9	688	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Booth	1234	Poly	250	1	300.0	N/P	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: purged for minimum time at request of owner, could not measure discharge rate

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 2/7/24

Well ID: CoL MW-113 Weather: cloudy

ADWR No: 225906 Sampler: JKH

WELL DATA

Well Depth (ft bls): 500

Casing Diameter (in): 6

Static Water Level (ft bmp): TWL

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WLO					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments: No WL attempted due to history of sounders getting stuck

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 2/14/2024

Well ID: CoB-MW2 | Weather: Sunny

ADWR No: 913984 | Sampler: SS

WELL DATA

Well Depth (ft bls): 162

Casing Diameter (in): 4

Static Water Level (ft bmp): 138.09

Casing Volume (gal): 16 x3 = 47

Total Volume Purged (gal): 189

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
(4)	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0933	Pump On						
0936	3	7	21	7.64	17.6	579.3	
0945	12	7	85	7.44	18.1	596.7	
0948	15	7	106	7.43	18.6	599.1	
0949	16	7	113	7.42	18.6	600.0	
1000							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
CoB-MW2	0950	Poly		1	300	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 2/14/2024

Well ID: COB-MW3 | Weather: Sunny

ADWR No: 906823 | Sampler: [illegible]

WELL DATA

Well Depth (ft bls): 300

Casing Diameter (in): 4

Static Water Level (ft bmp): 130.94

Casing Volume (gal): 110 x3 = 330

Total Volume Purged (gal): 404

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
(4)	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0838	Pump On						
0839	1	18	18	7.06	18.5	466.2	Myron calibrated 0801
0845	7	17	118	7.50	18.1	514.6	
0851	13	15	208	7.60	18.2	520.8	
0855	17	14	265	7.58	18.5	523.0	
0859	21	14	320	7.59	18.7	522.8	
0905							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
COB-MW3	0905	Poly		1	300	NP	Y
DUP240214	0905	Poly		1	300	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Not on schedule to be sampled. Discarding per GK

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 2/14/2024

Well ID: COB-WL | Weather: SUNNY

ADWR No: 593116 | Sampler: SS

WELL DATA

Well Depth (ft bls):	150
Casing Diameter (in):	4
Static Water Level (ft bmp):	105.63
Casing Volume (gal):	29 x3 = 87
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
(4)	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1104	Pump On						
1107	3	8	24	7.30	18.9	1005	
1109	5	0	40	—	—	—	Discharge dropped at
1109				7.39	19.3	1017	from sample (excess)
1109							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
COB-WL	1109	poly		1	300	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: Discharge stopped after 5 min. Collected sample right before the.

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/22/24

Well ID: Cooper-988 Weather: clouds

ADWR No: 232988 Sampler: JMH

WELL DATA

Well Depth (ft bls): 600

Casing Diameter (in): 6

Static Water Level (ft bmp): 328.13

Casing Volume (gal): 399 x3 = 1199

Total Volume Purged (gal): 1200

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1836	Pump On						
~~1705~~ 1705	30	~~6~~ 8	240	8.24	11.3	396	
1736	60	8	480	8.28	12.6	398	
1806	90	8	720	8.24	12.7	397	
1436	120	8	960	8.22	13.6	398	
1906	150	8	1200	8.23	13.3	400	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Cooper 988	1906	poly	250	1	300.0	n/a	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: Cooper C Weather: Sunny

ADWR No: Sampler: Christoph L Shaw

WELL DATA

Well Depth (ft bls): 220

Casing Diameter (in): 6

Static Water Level (ft bmp): 169.61

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/17/24

Well ID: DODSON | Weather: Clr 50s

ADWR No: 644927 | Sampler: GK

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 6

Static Water Level (ft bmp): 99.69

Casing Volume (gal): 148 x3 = 444

Total Volume Purged (gal): 640

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0940	Pump On			7.35			
0945	5	20	100	~~19.2~~	19.2	2131	
0950	15	20	300	7.34	19.3	2054	
1000	20	20	400	7.33	19.3	2014	
1005	25	20	500	7.29	19.3	1985	
1012							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
DODSON	1010	Poly	250	1	300	NP	Y
DUP20240117	1012	Poly	250	1	300	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Collected FB20240117 @ 1022
EQB20240117 @ 1025

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/18/24

Well ID: ECHAVE | Weather: clr 60s

ADWR No: 219449 | Sampler: GM

WELL DATA

Well Depth (ft bls): 345

Casing Diameter (in): 6

Static Water Level (ft bmp): 224.84

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments: If getting snagged flip sounder over or go from other side of well head

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/17/24

Well ID: GARNER 557 | Weather: Clr 60s

ADWR No: 558557 | Sampler: GK

WELL DATA

Well Depth (ft bls): 300

Casing Diameter (in): –

Static Water Level (ft bmp): 205.77

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	1/17/24
Well ID:	BOAR RANCH	Weather:	Clr 50s
ADWR No:	610695	Sampler:	CM

WELL DATA

Well Depth (ft bls):	250
Casing Diameter (in):	7
Static Water Level (ft bmp):	198.94
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: Hobon Weather: Sunny

ADWR No: Sampler: Christopher L Shuey

WELL DATA

Well Depth (ft bls): 300

Casing Diameter (in): 5

Static Water Level (ft bmp): 178.00

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/18/24

Well ID: HOWARD NR Weather: Clr 60s

ADWR No: NR Sampler: GW

WELL DATA

Well Depth (ft bls): 220

Casing Diameter (in): 6

Static Water Level (ft bmp): 164.69

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/17/24

Well ID: KEEFER | Weather: Clr 60s

ADWR No: 209744 | Sampler: GK

WELL DATA

Well Depth (ft bls):	245
Casing Diameter (in):	6
Static Water Level (ft bmp):	149.45
Casing Volume (gal):	141 x3 = 423
Total Volume Purged (gal):	546

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1458	Pump On			36			
1505	7	13	91	7.40	18.1	490.1	
1515	17	13	221	7.61	19.0	498.4	
1525	27	13	351	7.58	19.0	512.2	
1535	37	13	481	7.50	18.6	507.9	
1540							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
KEEFER	1540	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3.20.24

Well ID: LADD-635 Weather: Sunny

ADWR No: Sampler: Christopher L Shannon

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 178.63

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-20-24

Well ID: LADD- 435 Weather: Sunny

ADWR No: Sampler: Chase Hylton L Sherman

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 254.03

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-20-24

Well ID: LADD-251 Weather: Sunny

ADWR No: Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 222.92

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-20-24

Well ID: LADD-977 Weather: Sunny

ADWR No: Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 92.12

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-20-24

Well ID: LADD- 538 Weather: Sunny

ADWR No: Sampler: Christopher L Skinner

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 206.12

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-20-24

Well ID: LADD-837 Weather: Sunny

ADWR No: Sampler: Christopher L Shumway

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 385.11

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00
Client: Freeport Copper Queen Branch
Task No: 2
Date: 1/18/24
Well ID: MCCONNELL 265
Weather: Clr 60s
ADWR No: 539265
Sampler: GK

WELL DATA

Well Depth (ft bls): 216
Casing Diameter (in): 6
Static Water Level (ft bmp): 171.01
Casing Volume (gal): x3 =
Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/16/24

Well ID: METZLER Weather: Clr 50s

ADWR No: 35-71891 Sampler: GW

WELL DATA

Well Depth (ft bls): 351

Casing Diameter (in): 6

Static Water Level (ft bmp): 299.56

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/30/24

Well ID: MW-02 Weather: Clear

ADWR No: Sampler: JRH

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 119.14

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

N/A

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/20/21

Well ID: NSD-03 Weather: clear

ADWR No: Sampler: TRH

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): well dry

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
	WLO						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☒ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☒ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/26/24

Well ID: NWC-02 Weather: clear

ADWR No: 562944 Sampler: ~~ORH~~ JRH

WELL DATA

Well Depth (ft bls): 312

Casing Diameter (in): 6

Static Water Level (ft bmp): —

Casing Volume (gal): x3 =

Total Volume Purged (gal): 2000

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0959	Pump On						
1009	10	100	1000	7.59	14.0	463	
1014	15	100	1500	7.50	14.4	493	
1019	20	100	2000	7.51	14.2	454	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-02	1020	Poly	250	1	300.0	N/P	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☒ No water level measurement collected. Obstruction in well. ~ sounding tube to thin
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/21/24

Well ID: NWC-04 Weather: clear

ADWR No: 551899 Sampler: JRH

WELL DATA

Well Depth (ft bls): 462

Casing Diameter (in): 10

Static Water Level (ft bmp):

Casing Volume (gal): x3 =

Total Volume Purged (gal): 90

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1050 Auto	Pump On						
1052	2	7.5	15	7.63	22.0	982	
1057	7	7.5	~~90~~ 67.5	≈7.44	22.2	881	
~~10~~1102	12	7.5	90	7.44	22.1	975	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-04	1104	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/26/24

Well ID: NWC-06 Weather: clear

ADWR No: 525700 Sampler: JRH

WELL DATA

Well Depth (ft bls): 340

Casing Diameter (in): 8

Static Water Level (ft bmp): 175

Casing Volume (gal): 430.65 x3 = 1292

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0915	Pump On						
0925	10	138	1380	7.67	18.8	429	
0935	20	138	2760	7.57	18.9	411	
0945	30	138		7.55	18.7	409.7	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-06	0946	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well * used previous measurement
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/17/24

Well ID: OLM05 | Weather: Clr 60s

ADWR No: 224745 | Sampler: GM

WELL DATA

Well Depth (ft bls): 306

Casing Diameter (in): 6

Static Water Level (ft bmp): 156.09

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/17/24

Well ID: PANAGAKOS | Weather: Clr 60s

ADWR No: 35-76413 | Sampler: CH

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 8

Static Water Level (ft bmp): 170.31

Casing Volume (gal): 78 x3 = 234

Total Volume Purged (gal): 349

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1120	Pump On						
1125	5	7	35	7.39	18.0	1153	
1135	15	7	105	7.46	18.3	843.5	
1145	25	7	175	7.42	18.6	1078	
1155	35	7	244	7.39	18.6	1092	
1205	45	7	314	7.33	18.4	1094	
1210							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other: Spigot around back of house

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
PANAGAKOS	1210	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/16/24

Well ID: PIONEER 395 | Weather: Clr 60s

ADWR No: 613395 | Sampler: GK

WELL DATA

Well Depth (ft bls): 330

Casing Diameter (in):

Static Water Level (ft bmp): 163.19

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
	WLO						
			Well				
			Inoperable				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/16/24

Well ID: POWER 639 | Weather: Clr 30s

ADWR No: 222639 | Sampler: GK

WELL DATA

Well Depth (ft bls): 480

Casing Diameter (in): 6

Static Water Level (ft bmp): 300.40

Casing Volume (gal): 264 x3 = 792

Total Volume Purged (gal): 1098

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1153	Pump On						
1200	7	9	63	7.95	20.8	407.1	
1230	37	9	333	7.81	20.9	537.6	
1250	57	9	513	7.68	20.5	681.6	
1310	77	9	693	7.63	20.6	730.7	
1330	97	9	873	7.61	20.5	778.0	
1350	117	9	1053	7.57	20.6	791.3	
1355							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
POWER 639	1355	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/17/24

Well ID: RAMIREZ | Weather: Clr 60s

ADWR No: 216425 | Sampler: GK

WELL DATA

Well Depth (ft bls): 300

Casing Diameter (in): 6

Static Water Level (ft bmp): 173.59

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	1/15/24
Well ID:	ROGERS 596	Weather:	Clr 50s
ADWR No:	55-573596	Sampler:	GK

WELL DATA

Well Depth (ft bls):	290'
Casing Diameter (in):	6"
Static Water Level (ft bmp):	~~DBS~~ 147.51
Casing Volume (gal):	210 x3 = 630
Total Volume Purged (gal):	272

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1420	Pump On						
1425	5	~2	10	7.15	8.5	1450	
1440	20	~2	40	7.13	13.4	1453	
1500	40	~2	80	7.09	14.9	1455	
1530	70	~2	140	7.07	15.6	1458	
1400	100	~2	200	7.08	16.2	1448	
1430	130	~2	260	7.07	16.1	1458	
1636							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other: Spigot in driveway

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
ROGERS 596	1635	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: ~~Sent sounder down 290+ feet and confirmed~~ Purged 1 well volume and stable parameters. Flow rate to 3/4s.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/15/19

Well ID: ROGERS 803 Weather: Clr 50s

ADWR No: 55-611803 Sampler: GK

WELL DATA

Well Depth (ft bls): 140'

Casing Diameter (in): 6"

Static Water Level (ft bmp): DRY

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			DRY				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
DRY							

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☑ Other: DRY

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: DRY

Additional Comments: Sent Sounder down 300+ feet and could not discern GWM. Probe had mud on it when reeled up

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/18/24

Well ID: ROGERS E | Weather: Clr 50s

ADWR No: 216018 | Sampler: GM

WELL DATA

Well Depth (ft bls): 285

Casing Diameter (in): 6

Static Water Level (ft bmp): 164.09

Casing Volume (gal): 178 x3 = 534

Total Volume Purged (gal): 700

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0910	Pump On						
0920	10	14	140	7.49	20.1	490.7	
0930	20	14	280	7.51	20.1	485.2	
0940	30	14	420	7.46	20.1	479.9	
0950	40	14	560	7.44	20.3	480.8	
1000							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
ROGERS E	1000	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/16/24

Well ID: RUIZ Weather: Clr 50s

ADWR No: 531770 Sampler: GM

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp):

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WIO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WIO							

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☑ Other: well capped

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WIO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/16/24

Well ID: Ruiz 146 Weather: Clr 50s

ADWR No: 232146 Sampler: CM

WELL DATA

Well Depth (ft bls): 500

Casing Diameter (in): 6

Static Water Level (ft bmp): 304.73

Casing Volume (gal): .287 x3 = 861

Total Volume Purged (gal): 80*

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0855	Pump On						
0900	5	4*	20	~~7.45~~	17.7	625.0	
0903	8	4*	32	7.43	19.6	587.0	
0906	11	4*	44	7.43	19.7	589.7	
0910	15	4*	~~60~~ 60	7.40	19.9	609.8	
0915							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other: Sample off tank on stand

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Ruiz 146	0912	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: * ~½ of flow presumed to be going to tank

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/16/24

Well ID: SCHWARTZ | Weather: Clr 50s

ADWR No: 210865 | Sampler: GK

WELL DATA

Well Depth (ft bls): 305

Casing Diameter (in): 6

Static Water Level (ft bmp): 136.54

Casing Volume (gal): 248 x3 = 744

Total Volume Purged (gal): 938

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1008	Pump On						
1015	7	14	98	7.55	19.6	653.2	
1030	22	14	308	7.44	20.0	676.2	
1045	37	14	518	7.52	20.0	681.9	
1100	52	14	728	7.45	20.0	685.6	
1115	67	14	938	7.46	20.0	690.0	
1115							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at/near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
SCHWARTZ	1115	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/17/24

Well ID: STEPHENS Weather: Clr 40s

ADWR No: 808560 Sampler: GK

WELL DATA

Well Depth (ft bls): NA

Casing Diameter (in): NA

Static Water Level (ft bmp): 54.82

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	1/17/24
Well ID:	THOMPSON 151	Weather:	Clr 60s
ADWR No:	612151	Sampler:	GM

WELL DATA

Well Depth (ft bls):	216
Casing Diameter (in):	7
Static Water Level (ft bmp):	1WL
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☒ Other:

Additional Comments: Obstructed at ~170 ft bmp

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: TM-2A Weather: Sunny

ADWR No: Sampler: Christopher L. Shumm

WELL DATA

Well Depth (ft bls): 925

Casing Diameter (in): 4

Static Water Level (ft bmp): 342.52

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date:

Well ID: TM-6 Weather: 3-19-23

ADWR No: Sampler: Christopher L Slama

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 4

Static Water Level (ft bmp): 163.51

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-12-24

Well ID: TM-7 Weather: Sunny

ADWR No: Sampler: Christopher L Sharman

WELL DATA

Well Depth (ft bls): 350

Casing Diameter (in): 4

Static Water Level (ft bmp): 341.50

Casing Volume (gal): 5.5 x3 = 16.5

Total Volume Purged (gal): 64

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1400	Pump On						
1402	2	8	16	7.39	20.7	653	
1414	4	8	32	7.53	20.8	559	
1426	6	8	48	7.56	21.0	600	
1438	8	8	64	7.50	21.2	620	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TM-7	1438	P	250	1	300	None	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 8.5

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 1/21/24

Well ID: TM-10 WSBP Weather: clear

ADWR No: 522696 Sampler: TMH

WELL DATA

Well Depth (ft bls): 240

Casing Diameter (in): 4

Static Water Level (ft bmp): 237.16

Casing Volume (gal): 21.45 x3 = 64.35

Total Volume Purged (gal): 220

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1520	Pump On						
1527	7	10	70	7.44	19.4	419	
1532	12	~~120~~ 10	120	7.78	19.4	352	
1537	17	10	170	7.79	19.8	359	
1542	22	10	220	7.81	19.7	353	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TM-10-WSBP	1543	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

4

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: TM-16 Weather:

ADWR No: Sampler:

WELL DATA

Well Depth (ft bls): 115

Casing Diameter (in): 4

Static Water Level (ft bmp): 61.19

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 3-19-24

Well ID: TM-42 Weather: Sunny

ADWR No: Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bls): 250

Casing Diameter (in): 5

Static Water Level (ft bmp): 224.81

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 2/21/2024

Well ID: ~~TVI-713~~ TVI 236 | Weather: Clr 50s

ADWR No: ~~567713~~ 802236 | Sampler: GK

WELL DATA

Well Depth (ft bls):	200
Casing Diameter (in):	8
Static Water Level (ft bmp):	135.26
Casing Volume (gal):	380 x3 = 1140
Total Volume Purged (gal):	~1400

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1132	Pump On						
1135	3	~50*	150(x2)	6.68	18.1	723.9	
1138	6	~50	300(x2)	7.32	18.0	694.2	
1143	11	~50	550(x2)	7.51	18.2	~~617.0~~ 652.0	
1147	15	~50	750(x2)	7.51	18.2	617.0	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TVI-236	1140	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: * Valve going downstream from well to second well stuck open. Some flow not going to pond.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 2/7/24

Well ID: IVI-713 Weather: cloudy

ADWR No: 567713 Sampler: JRH

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 139.61

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WL 0					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WL0							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WL0

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/16/24

Well ID: WEED | Weather: Clr 60s

ADWR No: 544535 | Sampler: GM

WELL DATA

Well Depth (ft bls): 320

Casing Diameter (in): 6

Static Water Level (ft bmp): IWL

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1455	Pump On						
1457				8.14	18.7	380.3	
1503							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other: Sample from valve near wellhead

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WEED	1500	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: Grab sample to prevent tank from overflowing

Additional Comments: Hand filtered

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 1/18/24

Well ID: WEISKOPF 802 | Weather: Clr 60s

ADWR No: 641802 | Sampler: GM

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 6

Static Water Level (ft bmp): 156.30

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments: Difficult to get. Seem to get hung up around 155

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	4/19/2024
Well ID:	NWC-04	Weather:	Sunny
ADWR No:	551849	Sampler:	SS

WELL DATA

Well Depth (ft bls):	780
Casing Diameter (in):	6
Static Water Level (ft bmp):	IWL
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0727	Pump On						
0731	4	~1	3	7.46	24.5	876.5	
0736	9	~1	7	7.32	24.3	871.5	
0739	12	~1	10	7.31	24.3	871.7	
0748	21	~1	17	7.39	24.4	872.4	
0749	22	~1	17	7.33	24.6	870.1	
0750	23	~1	18	7.32	24.7	868.6	
0752	25	~1	20	7.33	24.5	868.1	
0754	27	~1	21				Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-04	0753	Poly	250	1	300.0	NP	Y
DUP240419	0753	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Myron calibrated 0730. Q measured by timing fill of sample bottle.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/13/2024
Well ID:	ANDERSON-396	Weather:	Sunny
ADWR No:	613396	Sampler:	JS

WELL DATA

Well Depth (ft bls):	285
Casing Diameter (in):	8
Static Water Level (ft bmp):	160.38
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
(8)	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WLO						

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/13/2024

Well ID: ANDERSON-458 | Weather: Sunny

ADWR No: 221458 | Sampler: SS

WELL DATA

Well Depth (ft bls): 734

Casing Diameter (in): 5

Static Water Level (ft bmp): 162.49

Casing Volume (gal): 583 x3 = 1,749

Total Volume Purged (gal): 1,831

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1320	Pump On						
1331	11	12	127	8.11	23.5	407.7	Myron calibrated 1331
1343	23	12	271	8.16	24.1	407.2	
1357	37	13	446	8.18	24.3	404.3	
1416	56	13	684	8.18	24.4	403.8	
1430	70	11	848	8.17	24.2	401.7	
1503	103	13	1,270	8.25	24.7	402.1	
1524	124	~~13~~ 13	1,713	8.21	24.6	403.9	
1528	128	13	1765	8.19	24.5	402.8	
1530	130	13	17,90	8.18	24.5	402.8	Pump Off 1533

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	~~Container~~ Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
ANDERSON-458	1533	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Phelps requests that CCA personelle NOT share water quality information w/ tenant.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/1/24

Well ID: AWC-02 Weather: Clr 90

ADWR No: 616586 Sampler: GL

WELL DATA

Well Depth (ft bls): 333

Casing Diameter (in): 20

Static Water Level (ft bmp): 129.08

Casing Volume (gal): 3,330 x3 = 9,900

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	~~16.31~~

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1125	Pump On						
1130	5	100	500	7.72	21.2	546.8	
1200	35	100	3500	7.64	21.0	552.5	
1220	55	100	5500	7.59	21.0	549.3	
1240	75	100	7500	7.48	21.0	549.8	
1305	100	100	10,000	7.54	21.0	548.8	
1305							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWC-02	1305	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/1/24

Well ID: AWC-03 | Weather: Clr 90

ADWR No: 616585 | Sampler: GK

WELL DATA

Well Depth (ft bls): 270

Casing Diameter (in): 16

Static Water Level (ft bmp): 132.50 (AWC)

Casing Volume (gal): 1435 x3 = 4305

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1007	Pump On						
1010	3	640	1920	7.52	20.9	541.2	
1013	6	640	3840	7.53	20.8	536.0	
1016	9	640	5760	7.50	20.8	539.5	
1020							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWC-03	1020	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: AWC took water level. CGA sounder not flexible enough to go past bend

Well off since at least 7am

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/1/24

Well ID: AWC-04 | Weather: Clr 90

ADWR No: 616584 | Sampler: GK

WELL DATA

Well Depth (ft bls): 337

Casing Diameter (in): 16

Static Water Level (ft bmp): 122.48

Casing Volume (gal): 2240 x3 = 6720

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	~~10.44~~
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1040	Pump On						
1045	5	600	3,000	7.29	20.6	746.2	
1050	10	600	6,000	7.13	20.1	744.2	
1055	15	600	9,000	7.13	20.1	743.3	
1100	20	600	12,000	7.11	20.1	742.7	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWC-04	1105	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/1/24

Well ID: AWC-05 | Weather: Clr 80s

ADWR No: 590620 | Sampler: CK

WELL DATA

Well Depth (ft bls): 1183

Casing Diameter (in): 16

Static Water Level (ft bmp): 279.64

Casing Volume (gal): 9430 x3 = 28,290

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
(16)	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0855	Pump On						
0905	10	700	7000	7.48	21.1	466.8	
0915	20	700	14,000	7.51	21.1	453.4	
0925	30	700	21,000	7.58	21.7	450.3	
0935	40	700	28,000	7.63	21.8	449.8	
0940			31,500				Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
AWC-05	0940	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Well off for several hours.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/9/2024
Well ID:	BANKS-986	Weather:	SUNNY
ADWR No:	647986	Sampler:	JS

WELL DATA

Well Depth (ft bls):	435
Casing Diameter (in):	6
Static Water Level (ft bmp):	225.02 *
Casing Volume (gal):	309 x3 = 926
Total Volume Purged (gal):	933

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1257	Pump On						
1306	9	8.8	79	7.52	22.1	1109	
1323	26	8.1	217	7.52	22.3	1085	
1340	43	7.9	351	7.50	22.2	1077	
1407	70	7.9	564	7.62	22.2	1071	
1412	75	8.1	605	7.58	21.8	1065	
1420	83	7.9	668	7.55	21.9	1063	
1430	93	8.1	749	7.63	22.3	1059	
1434	97	7.9	781	7.61	22.1	1054	
1440	103	7.9	828	7.61	22.4	1058	Pump Off 1453

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BANKS-986	1453	poly	250ml	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: WL from BANKS-987

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/9/2024

Well ID: BANKS-987 Weather: SUNNY

ADWR No: 647987 Sampler: JS

WELL DATA

Well Depth (ft bls): 339

Casing Diameter (in): 6

Static Water Level (ft bmp): 225.02

Casing Volume (gal): 166 x3 = 502

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
				W/O			
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	W/O						

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: W/O

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-10-24

Well ID: BMO-2008-16 | Weather: Sunny

ADWR No: | Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls): 310

Casing Diameter (in): 5

Static Water Level (ft bmp): 82.09

Casing Volume (gal): 232.4 x3 = 697.4

Total Volume Purged (gal): 747

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0530	Pump On						
0600	30	8.3	249	7.25	21.3	1131	
0620	50	8.3	415	7.29	21.4	1129	
0640	70	8.3	581	7.34	21.5	1135	
0700	90	8.3	747	7.34	21.4	1133	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-16	0700	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 227.9

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-31-24

Well ID: BMO-2008-3B | Weather: Sunny

ADWR No: | Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bls): 260

Casing Diameter (in): 5

Static Water Level (ft bmp): 154.03

Casing Volume (gal): 108.1 x3 = 324.3 | 540

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0915	Pump On						
0925	10	27	135	7.36	21.6	960	
0930	15	27	405	7.35	21.7	956	
0935	20	27	540	7.37	21.7	959	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-3B	0935	PL	250	1	300	Ice	X

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 106 Duplicate

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/26/24

Well ID: BMO-2009-4B Weather:

ADWR No: 910096 Sampler:

WELL DATA

Well Depth (ft bls): 610

Casing Diameter (in): 5

Static Water Level (ft bmp): 145.18

Casing Volume (gal): 474 x3 = 1422

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
	480						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/15/2024
Well ID:	BMO-2008-4B	Weather:	Overcast
ADWR No:	910096	Sampler:	SS

WELL DATA

Well Depth (ft bls):	610'
Casing Diameter (in):	5
Static Water Level (ft bmp):	145.02
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WIO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WIO						

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WIO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	9/11/2024
Well ID:	BMO-2008-4B	Weather:	Sunny
ADWR No:	910096	Sampler:	TS

WELL DATA

Well Depth (ft bls):	618
Casing Diameter (in):	5
Static Water Level (ft bmp):	145.30
Casing Volume (gal):	474 x3 = 1,422
Total Volume Purged (gal):	

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WIO					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WIO						

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Breaker was not turned on. ROGERS tenant has not been to property on account of illness. ROGERS needs to be contacted for future samples.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-15-24

Well ID: BMO-2008-5B | Weather: Sunny

ADWR No: | Sampler: Christopher L Skinner

WELL DATA

Well Depth (ft bls):	285
Casing Diameter (in):	5
Static Water Level (ft bmp):	158.57
Casing Volume (gal):	129 x3 = 387
Total Volume Purged (gal):	675

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0935	Pump On						
0940	5	27	135	7.07	21.9	1151	
0950	15	27	405	7.10	22.0	1144	
1000	25	27	675	7.05	22.8	1146	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-5B	1000	PL	250	1	300	Tap	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: ~~126.5~~ 126.5

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-15-24

Well ID: BMO-2008-5M | Weather: Sunny

ADWR No: | Sampler: Christopher L Skurnac

WELL DATA

Well Depth (ft bls):	450
Casing Diameter (in):	5
Static Water Level (ft bmp):	160.01
Casing Volume (gal):	295.8 x3 = 887.4
Total Volume Purged (gal):	990

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0830	Pump On						
0855	25	18	450	7.16	22.5	922	
0915	45	18	810	7.19	22.4	925	
0925	55	18	990	7.20	22.5	921	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-5M	0925	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 290

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: BMO-2008-6B | Date: 7-15-24

Well ID: BMO-2008-6B | Weather: Sunny

ADWR No: | Sampler: Christopher L Shum

WELL DATA

Well Depth (ft bls):	265
Casing Diameter (in):	5
Static Water Level (ft bmp):	203.30
Casing Volume (gal):	63 x3 = 189
Total Volume Purged (gal):	225

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0710	Pump On						
0725	15	5.1	75	7.25			
0740	30	5.1	150	7.20			
0755	45	5.1	225	7.24	22.0	362	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-6B	0755	PL	250	1	300	Ice	X

WATER LEVEL MEASUREMENT COLLECTION

- ☒ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☒ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: 6.7

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 7-15-24

Well ID: BMO-2008-6M Weather: Sunny

ADWR No: Sampler: Chr. stopher L Sherman

WELL DATA

Well Depth (ft bls): 450

Casing Diameter (in): 5

Static Water Level (ft bmp): 204.63

Casing Volume (gal): 250.3 x3 = 751

Total Volume Purged (gal): 840

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0620	Pump On						
0630	10	21	210	7.10	21.9	969	
0640	20	21	420	7.25	22.0	930	
0650	30	21	630	7.24	22.1	934	
0700	40	21	840	7.27	22.1	932	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-6M	0700	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 245.4

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-29-24

Well ID: BMO-2008-7M | Weather: Sunny

ADWR No: | Sampler: Christopher L Stevens

WELL DATA

Well Depth (ft bls):	670
Casing Diameter (in):	5
Static Water Level (ft bmp):	252.03
Casing Volume (gal):	426.3 x3 = 1,279
Total Volume Purged (gal):	1365

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0600	Pump On						
0625	25	21	525	7.49	22.8	684	
0645	45	21	945	7.52	22.8	686	
0705	65	21	1365	7.54	22.7	684	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-7M	0705	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 4/8

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch

Task No: _____ Date: 9-9-24

Well ID: BMO-2008-8B Weather: Sunny

ADWR No: _____ Sampler: Christoph L Sherma

WELL DATA

Well Depth (ft bls):	480
Casing Diameter (in):	5
Static Water Level (ft bmp):	310.10
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: SWL only

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch

Task No: _____ Date: 9-18-24

Well ID: BMO-2008-8M Weather: Sunny

ADWR No: _____ Sampler: Christopher L Sloan

WELL DATA

Well Depth (ft bls): 1210

Casing Diameter (in): 5

Static Water Level (ft bmp): 306.73

Casing Volume (gal): 921.3 x3 = 2764

Total Volume Purged (gal): 2816

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0630	Pump On						
0730	60	17.6	1056	6.71	23.6	2260	
0830	120	17.6	2112	6.69	23.5	2280	
0900	150	17.6	2640	6.65	23.7	2250	
0910	160	17.6	2816	6.67	23.5	2240	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-8M	0910	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 903.3

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-29-24

Well ID: BMO-2008-9M | Weather: Sunny

ADWR No: | Sampler: Christopher L Skaggs

WELL DATA

Well Depth (ft bls):	775
Casing Diameter (in):	5
Static Water Level (ft bmp):	301.46
Casing Volume (gal):	483 x3 = 1,449.2
Total Volume Purged (gal):	1504

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0730	Pump On						
0750	20	18.8	376	7.55	24.3	787	
0810	40	18.8	752	7.67	24.4	788	
0830	60	18.2	1128	7.65	24.5	790	
0850	80	18.8	1504	7.70	24.4	789	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-9M	0850	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 473

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 8-28-24

Well ID: BMO-2008-10GL | Weather: Sunny

ADWR No: | Sampler: Christopher L Sharma

WELL DATA

Well Depth (ft bls): 810

Casing Diameter (in): 5

Static Water Level (ft bmp): 350.11

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: SWL only

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 8.28.24

Well ID: BMO-2008-10 64 | Weather: Sunny

ADWR No: | Sampler: Christopher L Slemm

WELL DATA

Well Depth (ft bls): 449

Casing Diameter (in): 5

Static Water Level (ft bmp): 224.06

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-17-24

Well ID: BMO-2008-11G | Weather: Sunny

ADWR No: | Sampler: Christopher L Sharman

WELL DATA

Well Depth (ft bls):	760
Casing Diameter (in):	5
Static Water Level (ft bmp):	540.60
Casing Volume (gal):	223.7 x3 = 671.3
Total Volume Purged (gal):	720

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0615	Pump On						
0625	10	8	80	7.77	25.0	470	
0645	30	8	240	7.84	25.1	475	
0715	60	8	480	7.88	25.1	478	
0745	90	8	720	7.89	25.1	479	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2008-11G	0745	PL	250	1	300	Ice	

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 219.4

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch

Task No: _____ Date: 9-9-24

Well ID: BMO 2008-13B Weather: Sunny

ADWR No: _____ Sampler: Christopher La Shure

WELL DATA

Well Depth (ft bls): 475

Casing Diameter (in): 5

Static Water Level (ft bmp): 219.85

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: SWL only

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch

Task No: BMO-2008-13M Date: 9-9-24

Well ID: BMO-2008-13M Weather: Sunny

ADWR No: _____ Sampler: Christopher L. Sharman

WELL DATA

Well Depth (ft bls): 1030

Casing Diameter (in): 5

Static Water Level (ft bmp): 219.22

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: SWL only

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-11-24

Well ID: BMO-2010-1M | Weather: Sunny

ADWR No: | Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls):	550
Casing Diameter (in):	5
Static Water Level (ft bmp):	225.02
Casing Volume (gal):	331.5 x3 = 994.5
Total Volume Purged (gal):	1035

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0530	Pump On						
0545	15	10	150	7.34	23.7	1024	
0630	60	5	375	7.54	23.8	995	
0730	120	3	555	7.57	23.7	988	
0830	180	3	735	7.61	23.9	990	
0930	240	3	915	7.64	23.7	995	
1010	280	3	1035	7.65	23.7	997	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2010-1M	1010	PL	250	1	300	Ice	X

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 325

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 7-11-24

Well ID: BMO-2010-2M Weather: Sunny

ADWR No: Sampler: Christopher L Sturma

WELL DATA

Well Depth (ft bls): 380

Casing Diameter (in): 5

Static Water Level (ft bmp): 279.18

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: SWL only

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/6/2024
Well ID:	BMO-2010-3B	Weather:	Slightly Overcast
ADWR No:	219970	Sampler:	JS

WELL DATA

Well Depth (ft bls):	330
Casing Diameter (in):	5
Static Water Level (ft bmp):	128.84
Casing Volume (gal):	205 x3 = 616
Total Volume Purged (gal):	662

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1116	Pump On						
1120	4	8	33	7.72	21.4	418.2	
1126	20	8	163	7.57	21.3	433.8	
1150	34	8	277	7.56	21.5	433.4	
1202	46	8	377	7.59	21.3	433.0	
1214	55	8	450	7.60	21.3	433.1	
1221	65	8	531	7.57	21.4	433.8	
							Pump Off 1239

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2010-3B	1237	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/6/2024

Well ID: BMO-2010-3M | Weather: Slightly overcast

ADWR No: 219969 | Sampler: SS

WELL DATA

Well Depth (ft bls):	512
Casing Diameter (in):	5
Static Water Level (ft bmp):	131.07
Casing Volume (gal):	389 x3 = 1166
Total Volume Purged (gal):	1,200

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0837	Pump On						
0843	6	8	49	7.88	20.6	298.8	Myron calibrated 0841
0900	23	8	183	8.11	21.8	282.1	
0942	65	8	515	7.67	22.7	392.8	
1020	103	8	815	7.72	23.2	389.5	
1040	123	8	982	7.71	23.1	390.4	
1059	142	8	1136	7.69	23.2	389.0	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2010-3M	1107	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-10-24

Well ID: BMO-2012-1M | Weather: Sunny

ADWR No: | Sampler: Christopher L Sherwood

WELL DATA

Well Depth (ft bls):	405
Casing Diameter (in):	5
Static Water Level (ft bmp):	228.03
Casing Volume (gal):	180.5 x3 = 541.6
Total Volume Purged (gal):	600

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0930	Pump On						
0940	10	6	60	7.20	22.4	1210	
1000	30	6	180	7.15	22.8	1232	
1030	60	6	360	7.18	22.9	1229	
1110	100	6	600	7.20	22.9	1226	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2012-1M	1110	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 127

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/8/2024
Well ID:	BMO - 2014 - IBL	Weather:	Sunny
ADWR No:	917393	Sampler:	JS

WELL DATA

Well Depth (ft bls):	366
Casing Diameter (in):	5
Static Water Level (ft bmp):	131.84
Casing Volume (gal):	239 x3 = 717
Total Volume Purged (gal):	807

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1125	Pump On						
1129	4	18	71	7.31	23.1	729.5	
1138	13	17	221	7.38	24.0	723.9	
1152	27	17	454	7.31	24.6	728.6	
1156	32	18	525	7.38	23.2	726.5	
1159	35	17	575	7.27	22.9	726.4	
1205	41	17	675	7.38	23.4	728.1	
1207	43	16	707	7.38	22.5	727.6	
1209	45	16	741	7.38	22.3	728.9	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-IBL	1213	poly	250 ml	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/8/2024
Well ID:	BMO-2014-IRU	Weather:	SUNNY
ADWR No:	917394	Sampler:	SS

WELL DATA

Well Depth (ft bls):	273
Casing Diameter (in):	5
Static Water Level (ft bmp):	132.04
Casing Volume (gal):	144 x3 = 431
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1029	Pump On						
1032	3	3.8	12	7.41	20.9	776.5	
1100	31	3.9	121	7.32	24.9	801.9	
1108	39	3.2	147	7.28	24.5	800.7	
1113	44	3.1	162	7.20	24.1	798.5	
1116	47	2.91	174	7.22	23.8	804.5	
							Pump Off 1122

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-IRU	1120	POLY	250mL	1	380.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

Discharge rate cut in half since 2023. possible repair candidate

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/8/2024

Well ID: BMO-2014-2BL | Weather: Sunny

ADWR No: 917452 | Sampler: SS

WELL DATA

Well Depth (ft bls):	396
Casing Diameter (in):	5
Static Water Level (ft bmp):	135.06
Casing Volume (gal):	266 x3 = 799
Total Volume Purged (gal):	862

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0826	Pump On						
0831	5	18	88	7.13	20.7	1171	Myron calibrated 0829
0841	15	18	265	7.24	22.3	1166	
0845	19	17	332	7.21	21.9	1167	
0850	24	18	420	7.15	21.9	1167	
0857	31	18	543	7.15	21.8	1165	
0910	43	18	772	7.18	23.3	1162	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-2BL	0915	Poly	250 ml	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/8/2024
Well ID:	BMO-2014-2BU	Weather:	Sunny
ADWR No:	917453	Sampler:	JS

WELL DATA

Well Depth (ft bls):	276
Casing Diameter (in):	5
Static Water Level (ft bmp):	135.00
Casing Volume (gal):	144 x3 = 432
Total Volume Purged (gal):	514

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0922	Pump On						
0927	5	16	79	7.50	22.7	630.7	
0932	10	15	229	7.57	21.5	557.1	
0935	13	16	276	7.50	21.4	555.8	
0939	17	17	343	7.49	21.2	556.5	
0945	23	16	438	7.48	21.6	556.8	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-2BU	0949	Poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/12/2024
Well ID:	BMO-2014-3BL	Weather:	Sunny
ADWR No:	917527	Sampler:	SS

WELL DATA

Well Depth (ft bls):	521
Casing Diameter (in):	5
Static Water Level (ft bmp):	147.39
Casing Volume (gal):	381 x3 = 1144
Total Volume Purged (gal):	1246

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
~~0920~~ 1009	Pump On						
1019	1	27	27	7.35	20.8	429.8	Myron calibrated 0922
1023	14	27	382	7.48	22.2	423.9	
1025	16	27	436	7.48	21.9	424.5	
1031	22	27	600	7.46	21.8	422.6	
1035	26	30	720	7.47	21.9	422.3	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-3BL	1054	poly	250mL	1	300.0	N	Y
DUP240812	1054	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Ball valve busted. Needed to hand filter.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/12/2024

Well ID: BMO-2014-3BU | Weather: Sunny

ADWR No: 917494 | Sampler: SS

WELL DATA

Well Depth (ft bls): 288

Casing Diameter (in): 5

Static Water Level (ft bmp): 148.51

Casing Volume (gal): 142 x3 = 427

Total Volume Purged (gal): 469

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0920	Pump On						
0928	8	15	120	7.58	21.5	498.5	Myron calib. at 0922.
0935	15	15	~~225~~	7.74	21.1	486.2	
0943	23	14	~~322~~ 337	7.51	20.9	483.6	
0945	25			7.56	20.8	483.4	
0946	26			7.56	20.7	484.2	
0947	27			7.56	20.8	483.4	
							Pump Off 0954

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-3BU	0952	Poly	250 ml	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/7/2024

Well ID: ~~BMO-2014-4B~~ ~~BMO-2015~~ BMO-2014-4B | Weather: Sunny

ADWR No: 917620 | Sampler: JS

WELL DATA

Well Depth (ft bls):	258
Casing Diameter (in):	5
Static Water Level (ft bmp):	141.71
Casing Volume (gal):	119 x3 = 356
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1027	Pump On						
1032	~						Pump off (Dry)
1113	5	~					pump on
1114	6	16	95	7.65	22.0	516.3	
1118	10	16	158	7.63	22.1	514.5	
1122	14	16	221	7.61	22.1	511.5	
1125	17	17	271	7.59	21.8	509.2	
1128	20	17	321	7.59	21.8	508.4	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-4B	1133	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Ran out of fuel at 1032. Resumed pumping at 1113.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/7/2024
Well ID:	BMO-2014-4BL	Weather:	Sunny
ADWR No:	917619	Sampler:	JS

WELL DATA

Well Depth (ft bls):	261
Casing Diameter (in):	5
Static Water Level (ft bmp):	141.11
Casing Volume (gal):	122 x3 = 367
Total Volume Purged (gal):	431

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1144	Pump On						
1148	4	15	60	7.59	23.0	535.5	
1151	7	16	107	7.58	22.6	536.7	
1155	11	16	170	7.54	21.9	553.4	
1159	15	15	230	7.53	21.9	580.8	
1202	18	16	277	7.54	21.9	591.1	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-4BL	1212	PoH	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/7/2024

Well ID: BMO-2015-1B | Weather: SUNNY

ADWR No: 917622 | Sampler: SS.

WELL DATA

Well Depth (ft bls): 244

Casing Diameter (in): 5

Static Water Level (ft bmp): 137.80

Casing Volume (gal): 108 x3 = 325

Total Volume Purged (gal): 360

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0929	Pump On						
0931	2	15	30	7.48	21.6	696.4	
0937	8	15	120	7.48	21.3	722.9	
0940	11	15	165	7.44	21.1	732.2	
0943	14	15	210	7.51	21.1	738.8	
0946	17	15	255	7.51	21.2	739.9	
0948	19	15	285	7.48	21.2	741.7	
							Pump Off 0955

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2015-1B	0953	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/7/2024

Well ID: BMO - 2015 - IBL | Weather: Sunny

ADWR No: 917621 | Sampler: SS

WELL DATA

Well Depth (ft bls): 241

Casing Diameter (in): 5

Static Water Level (ft bmp): 139.06

Casing Volume (gal): 104 x3 = 312

Total Volume Purged (gal): 383

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0853	Pump On						
0857	4	17	67	7.36	21.0	882.7	Arrive at well 0855
0902	9	17	150	7.33	21.2	874.1	
0907	14	17	233	7.42	21.3	872.7	
0910	17	17	283	7.42	21.3	873.3	
0912	19	17	316	7.42	21.2	872.6	
							Pump Off 1918

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2015-IBL	0916	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/5/2024

Well ID: ~~BMO-2014-2BU~~ BMO-2015-2BU | Weather: Sunny

ADWR No: ~~917453~~ 917827 | Sampler: SS

WELL DATA

Well Depth (ft bls):	~~276~~ 268
Casing Diameter (in):	5
Static Water Level (ft bmp):	157.76
Casing Volume (gal):	~~121~~ 112 x3 = ~~362~~ 337
Total Volume Purged (gal):	430

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1034	Pump On						
1037	3	14	43	7.18	22.2	983.5	
1043	9	15	133	7.46	23.1	942.8	
1052	18	14	262	7.32	23.1	931.4	
1054	20	14	290	7.32	21.7	923.6	
1056	22	14	318	7.31	21.6	923.1	
1104	30	14	430				Sampled
							Pump Off 1108

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-~~2024~~-2015-2BU	1104	Poly	250 mL	1	300.0	N	Y
Dup240805	1104	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Myron calibrated at 1007

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/5/2024

Well ID: ~~BMO-2014-2BL~~ BMO-2015-2BL | Weather: Sunny

ADWR No: ~~917452~~ 917828 | Sampler: JS

WELL DATA

Well Depth (ft bls):	~~396~~ 272
Casing Diameter (in):	5
Static Water Level (ft bmp):	156.43
Casing Volume (gal):	~~244~~ 118 x3 = ~~733~~ 354
Total Volume Purged (gal):	785

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1122	Pump On						
1124	2	15	30	7.36	22.0	968.2	
1133	11	14	159	7.27	22.1	1006	
1142	20	15	294	7.25	23.0	992.5	
1154	32	14	462	7.36	22.1	985.1	
1201	39	14	560	7.27	22.3	981.5	
1207	45	15	650	7.27	22.0	981.8	
1216							Sampled
							Pump Off 1219

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH; 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-~~2014~~-2015-2BL	1216	Poly	250	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	9/11/2024
Well ID:	BOOTH	Weather:	Sunny
ADWR No:	914931	Sampler:	SS

WELL DATA

Well Depth (ft bls):	240
Casing Diameter (in):	7
Static Water Level (ft bmp):	140.99 ~140
Casing Volume (gal):	199 x3 = 595
Total Volume Purged (gal):	—

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WIO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WIO						

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: Well inoperable. Repairs expected soon

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/31/24

Well ID: BURKE | Weather: Clr 70

ADWR No: 212268 | Sampler: GK

WELL DATA

Well Depth (ft bls): 781

Casing Diameter (in): 6

Static Water Level (ft bmp): IWL

Casing Volume (gal): NA x3 =

Total Volume Purged (gal): 182

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0903	Pump On						
0905	2	13	26	7.87	26.0	480.5	
0910	7	13	91	7.89	26.0	479.9	
0915	12	13	156	7.85	26.0	479.7	
0917							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead (Other: Green Tank)

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BURKE	0917	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☑ Other: No WL due to history of snagging

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	9/11/2024
Well ID:	CHAMBERS	Weather:	Sunny
ADWR No:	629807	Sampler:	BS

WELL DATA

Well Depth (ft bls):	245
Casing Diameter (in):	6
Static Water Level (ft bmp):	—
Casing Volume (gal):	— x3 = —
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WIO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
		WIO					

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WIO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/14/2024
Well ID:	COB-MW-1B	Weather:	Partially Cloudy
ADWR No:	225906	Sampler:	JS

WELL DATA

Well Depth (ft bls):	500
Casing Diameter (in):	6
Static Water Level (ft bmp):	246.66
Casing Volume (gal):	373 x3 = 1,118
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WLO						

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Sander struck. Recurring problem. DO NOT SOUND

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/14/2024

Well ID: COB-MW-2 | Weather: Sunny

ADWR No: 903984 | Sampler: SS

WELL DATA

Well Depth (ft bls):	162
Casing Diameter (in):	4
Static Water Level (ft bmp):	138.37
Casing Volume (gal):	16 x3 = 46
Total Volume Purged (gal):	66

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
(4)	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0945	Pump On						
0948	3	7.3	22	7.39	21.0	530.3	
0951	6			7.22	20.6	576.4	
0952	7			7.21	20.1	582.2	
0953	8			7.22	19.9	585.4	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
COB-MW-2	0954	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Hand Filtered

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/14/2024

Well ID: CoB-MW-3 | Weather: Sunny

ADWR No: 906823 | Sampler: SS

WELL DATA

Well Depth (ft bls): 300

Casing Diameter (in): 4

Static Water Level (ft bmp): 143.04

Casing Volume (gal): 103 x3 = 306

Total Volume Purged (gal): 339

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
(4)	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0855	Pump On						
0856	1	18	18	7.39	19.3	501.3	
0858	3	19	56	7.48	20.2	445.8	
0900	5	19	94	7.47	20.3	449.1	
0902	7	19	132	7.45	20.3	455.2	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
CoB-MW-3	0913	poly	250 mL	1	300.0	N	Y
DUP240814	0913	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Hand Filtered

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/14/2024

Well ID: COB-WL | Weather: Sunny

ADWR No: 593116 | Sampler: JS

WELL DATA

Well Depth (ft bls): 150

Casing Diameter (in): 4

Static Water Level (ft bmp): 107*

Casing Volume (gal): 28 x3 = 84

Total Volume Purged (gal): 38

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
(4)	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1325	Pump On						
1326	1	7.5	8	7.02	21.2	1046	
1327	2			6.92	20.8	1040	
1328	3			7.02	20.7	1035	
1329	4			6.99	20.7	1034	
1330	5			6.99	20.7	1036	
							Pump Off 1331 **

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
COB-WL	1330	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: * Used COB sounder because CCA sounder broke earlier in the day.

** well ran dry at 1331

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/5/2024
Well ID:	COOPER-988	Weather:	Some Clouds
ADWR No:	232988	Sampler:	TS

WELL DATA

Well Depth (ft bls):	600
Casing Diameter (in):	6
Static Water Level (ft bmp):	328.94
Casing Volume (gal):	398 x3 = 1,195
Total Volume Purged (gal):	418

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1709	Pump On						
1718	9	4	39	8.24	28.2	412.5	Mycon calibrated. 1714
1734	25	4	109	8.28	28.4	413.0	
1807	58	5	280	8.30	28.1	411.5	
1822	73	5	351	8.28	28.5	414.4	
1831	82	5	394	8.27	27.9	415.6	
							Pump Off 1838

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other: Hose Spigot. West side of red house

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
COOPER-988	1836	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: Purged 1 well volume & field parameters stabalized per BD.

Additional Comments: Rich Cronin requests a copy of eQB Report.
2177 S Naco Hwy, Bisbee, AZ 85603. Cronin164@gmail.com (520) 249-5599
WL from well, west of Red house. Sample collected from Red hose. Hose to North spigot from south house inoperable.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch

Task No: _____ Date: 8-28-24

Well ID: Cooper C Weather: Sunny

ADWR No: _____ Sampler: Christopher L Sloan

WELL DATA

Well Depth (ft bls): 220

Casing Diameter (in): 6

Static Water Level (ft bmp): Dry

Casing Volume (gal): _____ x3 =

Total Volume Purged (gal): _____

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Well Dry

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/30/24

Well ID: DODSON | Weather: clr 90

ADWR No: 644927 | Sampler: GL

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 6

Static Water Level (ft bmp): 98.64

Casing Volume (gal): 148 x3 = 444

Total Volume Purged (gal): 675

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1435	Pump On						
1438	3	15		7.10	22.1	2232	
1445	10	15	150	7.19	21.5	2180	
1455	20	15	300	7.19	21.5	2068	
1505	30	15	450	7.24	21.5	2071	
1515	40	15	600	7.12	21.0	1972	
1520							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
DODSON	1520	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/31/24

Well ID: EAST | Weather: Clr 75

ADWR No: 599796 | Sampler: BK

WELL DATA

Well Depth (ft bls): 125

Casing Diameter (in): 6

Static Water Level (ft bmp): 79.53

Casing Volume (gal): 66 x3 = 198

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0955	Pump On						
0957	2	11	22	7.56	20.7	606.9	
1002	7	11	77	7.38	20.9	611.0	
1007	12	11	132	7.45	20.9	609.5	
1012	17	11	187	7.44	20.9	612.5	
1017	22	11	242	7.34	20.9	609.6	
1020							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
EAST	1020	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/25/24

Well ID: Echaus | Weather: clear

ADWR No: 219449 | Sampler: JH

WELL DATA

Well Depth (ft bls): 345

Casing Diameter (in): 6

Static Water Level (ft bmp): 225.55

Casing Volume (gal): 175 x3 = 526

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
< 20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0942	Pump On						
0945	3	10	30	7.76	26.5	393	
0950	8	~~5~~ 10	90	7.74	26.6	387	
0955	13	10	130	7.75	27.3	387	
0957	Sample	Taken					
0959							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead (Other): spigot off garage

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Echaus	0957	Poly	250	1	sulfate	N/P	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/15/2024
Well ID:	FRANCO-383	Weather:	SUNNY
ADWR No:	221383	Sampler:	JS

WELL DATA

Well Depth (ft bls):	711
Casing Diameter (in):	5
Static Water Level (ft bmp):	202.55*
Casing Volume (gal):	519 x3 = 1556
Total Volume Purged (gal):	1557

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1353	Pump On						
1357	4	11	43	7.54	26.5	1148	Myron calibrated 1355
1428	35	10	384	7.58	26.6	1144	
1457	64	10	684	7.58	26.6	1146	
1526	93	13	1,027	7.65	26.7	1147	
1536	103	12	1147	7.59	26.5	1146	
1545	112	12	1255	7.57	26.5	1146	
1557	124	12	1399	7.57	26.5	1148	
							Pump Off 1611

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
FRANCO-383	1611	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead Locked
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: * From 7/27/2023

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 9/11/2024

Well ID: FULTZ Weather: Sunny

ADWR No: 212447 Sampler: SS

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 258.11

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
This morning	Pump On						
1135				7.59	24.5	866.1	on since this morning
1137		5		7.45	22.7	856.2	
1139				7.44	22.8	857.2	
1141				7.45	21.6	852.1	
							Pump Off after 2 hours

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
FULTZ	1143	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized. per Richard Fultz.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/31/24

Well ID: GARNER 557 Weather: Rain 70

ADWR No: 558557 Sampler: BL

WELL DATA

Well Depth (ft bls): 300

Casing Diameter (in): 6

Static Water Level (ft bmp): 206.56

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
					WLO		
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/31/24

Well ID: GARNER 635 Weather: Rain, 70

ADWR No: 587635 Sampler: GK

WELL DATA

Well Depth (ft bls): 680

Casing Diameter (in): 5

Static Water Level (ft bmp): 207.43

Casing Volume (gal): 482 x3 = 1446

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1308	Pump On						
1310	2	15	26	7.55	22.2	479.1	
1330	22	14	308	7.64	22.7	~~408.8~~ 480.8	
1355	47	14	658	7.63	23.9	473.9	
1405	67	14	938	7.56	24.0	473.5	
1425	87	14	1218	7.58	24.0	472.3	
1445	97	14	1358	7.57	24.0	472.6	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
GARNER 635	1453	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/30/24

Well ID: GOAR RANCH | Weather: Clr 90

ADWR No: 610695 | Sampler: Gde

WELL DATA

Well Depth (ft bls): 250

Casing Diameter (in): 7

Static Water Level (ft bmp): 199.54

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

WLO

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 8-28-24

Well ID: Hoban | Weather: Sunny

ADWR No: | Sampler: Christopher L Sloan

WELL DATA

Well Depth (ft bls):	300
Casing Diameter (in):	5
Static Water Level (ft bmp):	178.63
Casing Volume (gal):	123.8 x3 = 371
Total Volume Purged (gal):	528

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0930	Pump On						
0940	10	17.6	176	7.19	22.2	1063	
0950	20	17.6	352	7.17	21.9	1060	
1000	30	17.6	528	7.16	21.8	1065	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Hoban	1000	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 121.7

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/7/2024
Well ID:	HOWARD-312	Weather:	Sunny
ADWR No:	221312	Sampler:	JS

WELL DATA

Well Depth (ft bls):	980
Casing Diameter (in):	5
Static Water Level (ft bmp):	236.32' measured (227.72') 2023
Casing Volume (gal):	772 x3 = 2,317
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
(5)	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1339	Pump On						
1345	6	11	64	8.06	22.1	613.4	Mylar collected 1342
1440	61	12	699	8.17	26.0	619.1	
1521	102	12	1,172	8.15	27.0	619.4	
1553	134	12	1,541	8.28	26.6	619.9	
1612	153	10	1738	8.14	26.4	620.2	
1620	161	12	1,834	8.15	26.5	620.1	
1630	171	12	1,949	8.14	26.6	621.7	
							Pump Off 1704

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
HOWARD-312	1704	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected. see comments
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Pump kicked on while sanding. WL reflects some drawdown. Using Q3 2023 WL for well volume.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/7/2024

Well ID: HOWARD - NR | Weather: Sunny

ADWR No: NR | Sampler: JS

WELL DATA

Well Depth (ft bls): 220

Casing Diameter (in): 6

Static Water Level (ft bmp): —

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
				Not scheduled			
						WLO	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
		Not scheduled					
			WLO				

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well. ~155'
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/25/24

Well ID: Keeler Weather: clear

ADWR No: 204744 Sampler: JH

WELL DATA

Well Depth (ft bls): 245

Casing Diameter (in): 6

Static Water Level (ft bmp): 150.06

Casing Volume (gal): 139 x3 = 418

Total Volume Purged (gal): 430

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1028	Pump On						
1030	2	~~20~~ 10	20	7.49	22.2	511	
1040	12	10	120	7.52	24.2	511	
1050	22	10	220	7.58	26.8	512	
1100	32	10	320	7.62	25.0	513	
1110	42	10	420	7.64	24.5	510	
1114	sample taken						
1125							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Keeler	1114	Poly	250	1	sulfate	NP	y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 9/11/2024

Well ID: LAIR | Weather: Sunny

ADWR No: 643436 | Sampler: SS

WELL DATA

Well Depth (ft bls): 388

Casing Diameter (in): 6

Static Water Level (ft bmp): —

Casing Volume (gal): — x3 = —

Total Volume Purged (gal): 328

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0846	Pump On						
0847	1	17	17	7.78	24.6	547.1	Myron calib. 0832
0850	4	17	67	7.69	24.6	547.1	
0855	9	16	146	7.67	24.7	546.4	
0903	17	17	279	7.68	24.7	549.6	
							Pump Off 0906

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
LAIR	0906	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well. 48.85'. Also grabby ~ 15'.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: #

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/1/24

Well ID: MCCONNELL 265 Weather: Clr 90+

ADWR No: 539265 Sampler: GJL

WELL DATA

Well Depth (ft bls): 216

Casing Diameter (in): 6

Static Water Level (ft bmp): 171.75

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

WL 0

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WL 0							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WL 0

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/1/24

Well ID: MCCONNELL 459 Weather: Clr 96+

ADWR No: 221459 Sampler: BK

WELL DATA

Well Depth (ft bls): 863

Casing Diameter (in): 5

Static Water Level (ft bmp): 174.45

Casing Volume (gal): 703 x3 = 2,109

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1405	Pump On						
1410	5	1314	70	7.89	22.7	447.7	
1435	30	14	420	8.04	24.4	453.3	
1505	60	14	840	8.02	25.2	460.6	
1535	90	14	1260	7.93	25.2	460.3	
1605	120	14	1680	8.06	25.2	459.2	
1635	150	14	2100	7.97	25.3	458.3	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
MCCONNELL	1640	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/13/2024

Well ID: METZLER Weather: SUNNY

ADWR No: 571891 Sampler: SS

WELL DATA

Well Depth (ft bls): 351

Casing Diameter (in): 6

Static Water Level (ft bmp): 300.10

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WLO						

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/16/2024
Well ID:	MOORE	Weather:	Sunny
ADWR No:	538847	Sampler:	BS

WELL DATA

Well Depth (ft bls):	220
Casing Diameter (in):	6
Static Water Level (ft bmp):	162.30
Casing Volume (gal):	85 x3 = 255
Total Volume Purged (gal):	496

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge* Rate (gpm)	Total* Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0923	Pump On						
0925	2	12	23	7.46	22.5	446.9	
0932	9	8.3	81	7.45	21.9	447.1	
0939	16	8.1	138	7.42	21.8	445.9	
0943	20	8.3	171	7.43	21.9	446.9	
							Pump Off 0952

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
MOORE	0952	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Add number. Landline: (520) 432-6002

* Only measuring ½ flow. Other hose open.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/31/24

Well ID: NESS | Weather: Cloudy 75

ADWR No: 509127 | Sampler: GL

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 554.96

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
NA	Pump On						
1715	–	–	–	7.66	24.7	542.3	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead (Other): Spigot at back of shed

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NESS	1715	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: Grab sample from tank

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/15/2024

Well ID: NSD-02 Weather: Sunny

ADWR No: Sampler: BS

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp): 111.43

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/15/2024

Well ID: NSD-03 Weather: Sunny

ADWR No: Sampler: SS

WELL DATA

Well Depth (ft bls):

Casing Diameter (in):

Static Water Level (ft bmp):

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WLO					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WLO						

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well. ~100'
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☒ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/9/2024

Well ID: NWC-02 | Weather: Sunny

ADWR No: 562944 | Sampler: JS

WELL DATA

Well Depth (ft bls): 312

Casing Diameter (in): 6

Static Water Level (ft bmp): 176.08

Casing Volume (gal): 200 x3 = 599

Total Volume Purged (gal):

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0847	Pump On						
0850	3			7.62	21.5	470.9	
0854	7			7.52	21.6	454.6	bits of rust
0900	13			7.49	22.0	450.1	
0904	17			7.46	21.7	449.6	
0909	22			7.49	21.6	449.2	
							Pump Off 0910

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: (Spigot at / near wellhead) Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-02	0910	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Sampling tube tight but accessible. Flow meter inoperable. Hand filtered.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/9/24

Well ID: NWC-03 CAP | Weather: Sunny

ADWR No: 627684 | Sampler: JS

WELL DATA

Well Depth (ft bls): 179

Casing Diameter (in): 8

Static Water Level (ft bmp): DRY

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WLO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/9/2024
Well ID:	MWC-04	Weather:	overcast
ADWR No:	551849	Sampler:	ES

WELL DATA

Well Depth (ft bls):	462
Casing Diameter (in):	10
Static Water Level (ft bmp):	Sonde let down to 700' no sound
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
(10)	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
pumping on arrival	Pump On						
1016		4.6		7.18	25.2	886.6	
1020				7.19	25.1	886.1	
1024				7.18	25.1	887.1	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
MWC-04	1025	Poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☑ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: ~~8/8/2024~~ 8/9/2024

Well ID: NWC-06 | Weather: Sunny

ADWR No: 575700 | Sampler: JS

WELL DATA

Well Depth (ft bls): 340

Casing Diameter (in): 8

Static Water Level (ft bmp): 178.20 (pumping)

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
(8)	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
Auto collected every 3 min	Pump On						
0803				7.58	21.7	418.1	Myron calibrated ~~1336~~ 0802
0806				7.56	21.8	417.4	
0811				7.56	21.8	417.0	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-06	0812	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected. pumping
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Hand filtered. Flow meter battery dead & not reading discharge rate. Hearthstone to replace.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/12/2024

Well ID: OLM05 | Weather: Partial clouds. Hot

ADWR No: 224745 | Sampler: SS

WELL DATA

Well Depth (ft bls): 306

Casing Diameter (in): 6

Static Water Level (ft bmp): 157.51

Casing Volume (gal): 218 x3 = 655

Total Volume Purged (gal): 98

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1252	Pump On						
1255	3	11	32	7.51	21.5	427.6	Myron calibrated 1254
1257	5	12	55	7.53	21.8	427.7	
1259	7	11	76	7.53	21.3	427.7	
							Pump Off 1301

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
OLM05	1301	Poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized. Owner requested minimal purging.
- [ ] Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/31/24

Well ID: PALMER Weather: Cloudy, 80

ADWR No: 578819 Sampler: Gac O

WELL DATA

Well Depth (ft bls): 220

Casing Diameter (in): 6

Static Water Level (ft bmp): Dry

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
NA	Pump On						
1620	–	–	–	7.90	25.7	509.6	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
PALMER	1620	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: Collected Sample from tank

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: ~~Event~~ 7/31/24

Well ID: PANAGAKOS Weather: Overcast 75

ADWR No: 35-76413 Sampler: GL

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 8

Static Water Level (ft bmp): 178.52

Casing Volume (gal): 56 x3 = 168

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1505	Pump On						
1510	5	7	35	7.45	20.7	1157	
1520	15	7	105	7.38	20.7	1089	
1530	25	7	175	7.52	20.7	1082	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
PANAGAKOS	1535	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/24/24

Well ID: PIONIKE 395 | Weather: —

ADWR No: 613395 | Sampler: JH

WELL DATA

Well Depth (ft bls): 330

Casing Diameter (in): —

Static Water Level (ft bmp): 163.96

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WLO					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments: Gw transcribed from notebook.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/24/24

Well ID: Pionke S17 | Weather: overcast

ADWR No: 221517 | Sampler: TH

WELL DATA

Well Depth (ft bls): 604

Casing Diameter (in): 5

Static Water Level (ft bmp): 161.96

Casing Volume (gal): 450.9 x3 = 1352.8

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1428 ~~1628~~	Pump On						
1430 ~~1630~~	2	8	16	6.78	22.8	546	
1500 ~~1700~~	32	~~248~~ 8	248	7.60	23.5	389	
1530	62	8	488	7.62	23.2	386	
1600	92	8	728	7.61	23.5	385	
1630	122	8	968	7.60	24.2	388	
1700	152	8	1208	7.60	24.3	387	
1730	182	8	1448	7.61	24.5	388	
1735	sample	taken					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead (Other: spigot off back of pump house)

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Pionke S17	1735	Poly	250	1	Sulfate	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/16/2024
Well ID:	POOL	Weather:	SUNNY
ADWR No:	589518	Sampler:	JS

WELL DATA

Well Depth (ft bls):	313
Casing Diameter (in):	6
Static Water Level (ft bmp):	204.22*
Casing Volume (gal):	160 x3 = 480
Total Volume Purged (gal):	

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
—	Pump On						
1100				7.48	22.7	552.9	
1101				7.45	22.1	551.8	
1102				7.45	22.0	552.0	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
POOL	1104	PLY	250 ml	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: * Historic level from 2008. Well remains all day upon arrival Obtained access agreement.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/13/2024

Well ID: POWER-639 | Weather: Sunny

ADWR No: 222639 | Sampler: JS

WELL DATA

Well Depth (ft bls): 480

Casing Diameter (in): 6

Static Water Level (ft bmp): 301.02

Casing Volume (gal): 264 x3 = 798

Total Volume Purged (gal): 1095

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0948	Pump On						
1007	19	12	228	7.86	21.7	473.6	Myron calibrated 1005
1020	32	14	485	7.69	22.2	587.5	
1029	41	13	522	7.76	22.0	641.4	
1044	56	13	718	7.73	22.1	724.3	
1054	66	13	848	7.55	22.1	754.5	
1059	71	13	913	7.56	21.8	763.7	
1110	82	13	1,056	7.57	21.9	781.9	
							Pump Off 1113

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
POWER-639	1113	poly	250 mL	1	300.0	N	Y
DUP240813	1113	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 2314 S Hope St.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/5/2014

Well ID: RAMIREZ | Weather: Sunny

ADWR No: 216425 | Sampler: SS

WELL DATA

Well Depth (ft bls):	300'
Casing Diameter (in):	6
Static Water Level (ft bmp):	174.49
Casing Volume (gal):	181 x3 = 542
Total Volume Purged (gal):	591

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1338	Pump On						
1340	2	13	25	7.50	22.6	405.6	
1350	12	14	161	7.57	23.5	418.8	
1359	21	14	284	7.50	23.1	419.3	calibration myron.
1408	30	14	407	7.51	23.3	420.2	
1411	33	16	454	7.51	23.0	418.3	
1414	36			7.50	23.1	420.3	
							Pump Off 1421

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
RAMIREZ	1421	poly	250	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments:

Myron calibrated 1353

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/25/24

Well ID: Ray Weather: cloudy

ADWR No: 503772 Sampler: JH

WELL DATA

Well Depth (ft bls): 100

Casing Diameter (in): 4

Static Water Level (ft bmp): 52.39

Casing Volume (gal): 124 x3 = 372

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1475	Pump On						
1450	5	8	40	6.95	28.1	1469	
1500	~~10~~ 15	8	120	7.01	22.2	1483	
1510	25	8	200	6.94	22.3	1496	
1520	35	8	~~240~~ 280	6.97	22.22	1497	
1530	45	8	360	7.00	21.9	1497	
1540	55	8	440	6.98	21.7	1498	
1542	Sample	taken					
1543							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
~~1512~~ Ray	1542	Poly	250	1	Sulfate	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/26/24

Well ID: Rogers 596 Weather: overcast

ADWR No: 573596 Sampler: JH

WELL DATA

Well Depth (ft bls): 290

Casing Diameter (in): 6

Static Water Level (ft bmp): 148.21

Casing Volume (gal): 204 x3 = 625

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0913	Pump On						
0915	2	2	4	~~9.46~~ 6.69	29.4	1569	
0935	22	2	44	6.91	26.2	1425	
0955	42	2	84	6.90	25.7	~~13.9~~ 1391	
1015	62	2	124	6.91	25.6	1394	
1035	82	2	164	6.90	25.6	1401	
1055	102	2	204	6.91	25.5	1408	
1056	sample	Taken					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Rogers 596	1056	Poly	250	1	sulfide	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized. 1 well volume
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/26/24

Well ID: Roger 803 Weather: overcast

ADWR No: 641803 Sampler: JH

WELL DATA

Well Depth (ft bls): 140

Casing Diameter (in): 6

Static Water Level (ft bmp): Dry

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WLO					
				inoperable			
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☑ Other: Dry, inoperable

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/6/2024

Well ID: ROGERS - E | Weather: Cloudy

ADWR No: 216018 | Sampler: JS

WELL DATA

Well Depth (ft bls): 285

Casing Diameter (in): 6

Static Water Level (ft bmp): 163*

Casing Volume (gal): 180 x3 = 540

Total Volume Purged (gal): 599

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1353	Pump On						
1356	3	12	36	7.49	22.3	478.5	Myron calibrated 1324
1402	9	12	108	7.49	22.6	480.2	
1411	18	13	225	7.48	21.6	485.7	
1424	31	13	388	7.49	21.5	479.2	
1437	44	12	538	7.47	21.4	476.6	
							Pump Off 1441

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
ROGERS-E	1441	poly	250 mL	1	300.0	N	Y
DUP240806	1441	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well. ~24'
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☑ Purged 3 well volumes and field parameters stabilized
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: * from Q3 2023

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/6/2024
Well ID:	RUI2 -146	Weather:	overcast
ADWR No:	~~55-~~ 233146	Sampler:	BS

WELL DATA

Well Depth (ft bls):	500
Casing Diameter (in):	6
Static Water Level (ft bmp):	305.24
Casing Volume (gal):	286 x3 = 859
Total Volume Purged (gal):	> 160

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1514	Pump On						
1517	3	[illegible]	[illegible]	7.42	21.4	597.8	
1535	21			7.28	21.4	630.0	
1543	29			7.33	21.3	634.4	
1545	31			7.33	21.3	636.3	
1550	36			7.32	21.3	636.3	
							Pump Off pumping after departure to GW tank

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
RUI2-146	1554	poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Tank filling. ~~[illegible] to tank.~~ Discharge gravity fed from tank. Discharge rate unknown. Q from hose ~4 gpm.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/25/24

Well ID: Schwartze | Weather: clear

ADWR No: 210865 | Sampler: JH

WELL DATA

Well Depth (ft bls): 305

Casing Diameter (in): 6

Static Water Level (ft bmp): 137.13

Casing Volume (gal): 246 x3 = 740

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1148	Pump On						
1150	2	8	16	7.41	23.8	650	
1200	12	8	96	7.42	23.9	643	
1220	32	8	~~176~~ 256	7.36	24.5	665	
1240	52	8	416	7.32	24.1	687	
1300	72	9	576	7.35	24.6	695	
1320	92	8	736	7.40	24.8	703	
1322	sample	Taken					
~~1322~~ 1324							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
~~1322~~ Schwartze	1322	Poly	250	1	Sulfate	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 7/30/24

Well ID: STEPHENS Weather: Clr 90

ADWR No: 608560 Sampler: GM

WELL DATA

Well Depth (ft bls): N/A

Casing Diameter (in):

Static Water Level (ft bmp): 57.96

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WLO							

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/2/24

Well ID: TERRY Weather: Clr 85

ADWR No: 229470 Sampler: GM

WELL DATA

Well Depth (ft bls): NA (~210)

Casing Diameter (in): 6

Static Water Level (ft bmp): IWL

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			Well				
			Inparable				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: No Power to Well

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/2/24

Well ID: TERRY 101 | Weather: Clr 85

ADWR No: 234101 | Sampler: GK

WELL DATA

Well Depth (ft bls): 400

Casing Diameter (in): 6

Static Water Level (ft bmp): 153.21*

Casing Volume (gal): 363 x3 = 1089

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0840	Pump On						
0845	5	~7	35	~~9.00~~ *	21.0	~~7000~~	*Just calibrated
0905	25	~7	~~150~~	7.62	21.5	420.5	
0930	50	~7	~~300~~	7.64	21.5	414.9	
1000	80	~7	540	7.42	21.5	415.2	
1030	110	~7	~~750~~	7.57	21.5	414.8	
1100	140	~7	960	7.52	21.5	415.4	
~~1113~~	150		1100				Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead (Other): Sampled off spigot to South of well

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TERRY 101	1113	Poly	250	1	300.0	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: * Using 2021 WL. Obstruction in well ~90 ft. Lots of snags

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/15/2024

Well ID: THOMPSON-151 Weather: Sunny 95

ADWR No: 612151 Sampler:

WELL DATA

Well Depth (ft bls): 210'

Casing Diameter (in): 7

Static Water Level (ft bmp): IWL

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			WTO				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WTO						

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well: ~160'
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WTO

Additional Comments: well obstructed

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/15/2024

Well ID: THOMPSON - 341 | Weather: Sunny

ADWR No: 218341 | Sampler: SS

WELL DATA

Well Depth (ft bls): 285

Casing Diameter (in): 7

Static Water Level (ft bmp): 176.05

Casing Volume (gal): [illegible] x3 = [illegible]

208 | 624

Total Volume Purged (gal):

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1026	Pump On						
1027				7.44	23.9	430.7	Myron calibrated 1025
1028				7.34	23.6	429.1	Well ran dry
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
THOMPSON - 341	1028	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: See NAS

Additional Comments: Sampled before well ran dry

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch

Task No: _____ Date: 9-9-24

Well ID: TM-2A Weather: Sunny

ADWR No: _____ Sampler: Christopher L. Slauson

WELL DATA

Well Depth (ft bls): 925

Casing Diameter (in): 4

Static Water Level (ft bmp): 343.20

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: SWL only

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 7-11-24

Well ID: TM-6 Weather:

ADWR No: Sampler:

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 4

Static Water Level (ft bmp): 164.30

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: SWL only

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 8-28-24

Well ID: TM-7 | Weather: Sunny

ADWR No: | Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bls): 350

Casing Diameter (in): 4

Static Water Level (ft bmp): 341.88

Casing Volume (gal): 5.3 x3 = 16

Total Volume Purged (gal): 80

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0600	Pump On						
0602	2	10	20	7.42	20.2	813	
0612	—						
0614	4	10	40	7.49	21.0	762	
0624	—						
0626	6	10	60	7.50	21.2	717	
0636	—						
0638	8	10	80	7.48	21.3	768	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TM-7	0638	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other:

Additional Comments: 8.2

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/9/2024
Well ID:	TM1D-USPD	Weather:	Sunny
ADWR No:	572696	Sampler:	JS

WELL DATA

Well Depth (ft bls):	296
Casing Diameter (in):	4
Static Water Level (ft bmp):	253.53
Casing Volume (gal):	28 x3 = 83
Total Volume Purged (gal):	36

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1142	Pump On						
1143	1	~6	~6	7.59	20.4	354.4	Turbid water
1145	3			7.64	21.3	354.5	
1146	4			7.63	21.4	354.1	
1147	5			7.63	21.7	354.9	
							Pump Off 1148

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TM1A-USBP	1148	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [x] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: Hand Filtered

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-31-24

Well ID: TM-15 | Weather: Sunny

ADWR No: | Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls): 325

Casing Diameter (in): 4

Static Water Level (ft bmp): 305.49

Casing Volume (gal): 12.7 x3 = 38.2

Total Volume Purged (gal): 270

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0600	Pump On						
0610	10	9	90	7.46	22.3	533	
0620	20	9	180	7.50	22.4	530	
0630	30	9	270	7.51	22.3	529	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TM-15	0630	PL	250	1	300	Ice	Y
Dup-073121	0630	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 19.6

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CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 7-11-24

Well ID: TM-16 Weather: Sunny

ADWR No: Sampler: Christopher L Shumway

WELL DATA

Well Depth (ft bls): 115

Casing Diameter (in): 4"

Static Water Level (ft bmp): 62.56

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: SWL only

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch

Task No: Date: 9-4-24

Well ID: TM-19A Weather: Sunny

ADWR No: Sampler: Christopher L Shows

WELL DATA

Well Depth (ft bls): 700

Casing Diameter (in): 4

Static Water Level (ft bmp): 214.42

Casing Volume (gal): 315.6 x3 = 947

Total Volume Purged (gal): 1000

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0600	Pump On						
0615	15	25	375	7.48	23.6	687	
0625	25	25	625	7.45	23.5	686	
0640	40	25	1000	7.49	23.4	689	
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TM-19A	0640	PL	250	1	300	Ice	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field paremeters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: 485.6

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: 287030 | Client: Freeport Copper Queen Branch

Task No: | Date: 7-11-24

Well ID: TM-42 | Weather: Sunny

ADWR No: | Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls): 250

Casing Diameter (in): 5

Static Water Level (ft bmp): 225.20

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field paremeters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: SWL only

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	8/16/2024
Well ID:	TVI-236	Weather:	Sunny
ADWR No:	882236	Sampler:	JS

WELL DATA

Well Depth (ft bls):	222
Casing Diameter (in):	12
Static Water Level (ft bmp):	135.84
Casing Volume (gal):	507 x3 = 1,519
Total Volume Purged (gal):	2,100

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0808	Pump On						
0815	7	150	1050	7.27	20.0	504.6	Myro. collected 0820
0817	9		1350	7.46	19.7	505.9	
0818	10		1500	7.45	19.8	508.0	
0819	11		1650	7.45	19.7	507.5	
							Pump Off 0822

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead (Other:) Pipe leading into pond

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
TVI-236	0820	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- [x] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other:

WELL PURGING INFORMATION

- [x] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [ ] Other:

Additional Comments: New contact: Christopher (520) 508-7090.
To get pump on flip a bunch of breakers on north side of tower & inside S ovt.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/8/2024

Well ID: TVI-713 Weather: Sunny

ADWR No: 567713 Sampler: SS

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 8

Static Water Level (ft bmp): 149.11

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
		WLO					
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	WLO						

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: WLO

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch

Task No: 2 Date: 8/8/2024

Well ID: TVI-875 Weather: Sunny

ADWR No: 868875 Sampler: SS

WELL DATA

Well Depth (ft bls): 330

Casing Diameter (in): 8

Static Water Level (ft bmp): capped

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
(8)	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
			W/O				
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
	W/O						

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☑ Other: W/O

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 8/8/2024

Well ID: WBED | Weather: Overcast

ADWR No: 544535 | Sampler: JS

WELL DATA

Well Depth (ft bls):	320
Casing Diameter (in):	6
Static Water Level (ft bmp):	NM
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	85

Casing Capacity

Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
(6)	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1606	Pump On						
1607	1	17	17	7.74	20.3	405.2	
1608	2	17	34	7.71	20.7	399.9	
1609	3	17	51	7.69	20.8	400.1	
1610	4	17	68	7.69	20.8	399.4	
							Pump Off 1611

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead | Other: Pipe North of Tank

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
WBED	1611	poly	250mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☑ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: Hand filtered, ph. Ladder in well horse next to tank. Pull up purger to start well.

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/26/24

Well ID: Weiskopf 902 | Weather: overcast cloudy

ADWR No: 641802 | Sampler: JH

WELL DATA

Well Depth (ft bls): 200

Casing Diameter (in): 6

Static Water Level (ft bmp): 158.48

Casing Volume (gal): x3 =

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
	Pump On						
							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☐ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No: CC18.1080.00 | Client: Freeport Copper Queen Branch

Task No: 2 | Date: 7/26/24

Well ID: Wells Kapf 897 | Weather: cloudy

ADWR No: 220897 | Sampler: JH

WELL DATA

Well Depth (ft bls): 1130

Casing Diameter (in): 5

Static Water Level (ft bmp): ~~156~~ 154.41

Casing Volume (gal): 889 x3 = 2666

Total Volume Purged (gal):

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
1219	Pump On						
1222	3	10	30	7.65	22.5	384	
1252	33	14	420	7.63	23.1	393	
1312	53	14	742	7.70	23.3	384	
1332	73	14	1022	7.73	23.8	383	
1352	93	14	1302	7.62	23.3	384	
1412	113	14	1582	7.60	23.4	384	
1432	133	14	1862	7.58	23.3	384	
1436	sample	taken					
1436							Pump Off

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
Wells Kapf 897	1436	Poly	250	1	Sulfate	NP	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☑ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☐ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments:

CLEAR CREEK ASSOCIATES

Groundwater Sampling Form

Project No:	CC18.1080.00	Client:	Freeport Copper Queen Branch
Task No:	2	Date:	12/5/2025
Well ID:	NWC-04	Weather:	Sunny, Cool
ADWR No:	551849	Sampler:	JS

WELL DATA

Well Depth (ft bls):	780
Casing Diameter (in):	6
Static Water Level (ft bmp):	WIO
Casing Volume (gal):	x3 =
Total Volume Purged (gal):	33

Casing Capacity	
Nominal Size (inches)	Gallons per Linear Foot
2	0.16
4	0.65
5	1.02
6	1.47
8	2.61
10	4.08
16	10.44
20	16.31

Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
0804	Pump On						
0805	1	5.50	6.	7.21	23.3	879.2	Myron calibrated
0806	2	5.50	11	7.30	23.6	874.4	
0807	3	5.50	17	7.28	23.7	871.2	
0808	4	5.50	22	7.29	23.8	871.1	
							Pump Off 0810

FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION

Sample Collection Point: Spigot at / near wellhead Other:

Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-04	0810	Poly	250 mL	1	300.0	N	Y

WATER LEVEL MEASUREMENT COLLECTION

- ☐ Water level measurement collected.
- ☐ No water level measurement collected. No access to wellhead/No port in wellhead
- ☑ No water level measurement collected. Obstruction in well.
- ☐ No water level measurement collected. Well is pumping.
- ☐ Other:

WELL PURGING INFORMATION

- ☐ Purged 3 well volumes and field parameters stabilized.
- ☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
- ☑ Purged well until field parameters stabilized.
- ☐ Other:

Additional Comments: well running before arrival. Discharge rate from totalizer & stop watch. Hand filtered

CLEAR CREEK ASSOCIATES

Appendix B

Analytical Reports

CLEAR CREEK ASSOCIATES

February 08, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24A0595
Order Name: CQB Quartery
#CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 12 sample(s) on 01/19/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Bradley Gore
Project Manager

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Date Received: 01/19/2024

Order: CQB Quartery #CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24A0595-01	ROGERS 596	Ground Water	01/15/2024 1635
24A0595-02	RUIZ 146	Ground Water	01/16/2024 0912
24A0595-03	SCHWARTZ	Ground Water	01/16/2024 1115
24A0595-04	POWER 639	Ground Water	01/16/2024 1355
24A0595-05	WEED	Ground Water	01/16/2024 1500
24A0595-06	DODSON	Ground Water	01/16/2024 1010
24A0595-07	DUP20240117	Ground Water	01/17/2024 1012
24A0595-08	FB20240717	Ground Water	01/17/2024 1022
24A0595-09	EQB20240117	Ground Water	01/17/2024 1025
24A0595-10	PANAGAKOS	Ground Water	01/17/2024 1210
24A0595-11	KEEFER	Ground Water	01/17/2024 1540
24A0595-12	ROGERS E	Ground Water	01/18/2024 1000

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Date Received: 01/19/2024

Case Narrative

E4	Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

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

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-01

Client Sample ID: ROGERS 596
Collection Date/Time: 01/15/2024 1635
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	581	28.1	50.0		mg/L	10	01/30/2024 1734	01/30/2024 2211	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-02

Client Sample ID: RUIZ 146
Collection Date/Time: 01/16/2024 0912
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	77.7	2.81	5.00		mg/L	1	01/30/2024 173	01/30/2024 223	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** SCHWARTZ
Project: CQB **Collection Date/Time:** 01/16/2024 1115
Work Order: 24A0595 **Matrix:** Ground Water
Lab Sample ID: 24A0595-03 **Order Name:** CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	127	28.1	50.0		mg/L	10	01/30/2024 1734	01/31/2024 232	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** POWER 639
Project: CQB **Collection Date/Time:** 01/16/2024 1355
Work Order: 24A0595 **Matrix:** Ground Water
Lab Sample ID: 24A0595-04 **Order Name:** CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	171	28.1	50.0		mg/L	10	01/30/2024 1734	01/31/2024 002	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-05

Client Sample ID: WEED
Collection Date/Time: 01/16/2024 1500
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	12.5	2.81	5.00		mg/L	1	01/30/2024 1734	01/31/2024 004	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-06

Client Sample ID: DODSON
Collection Date/Time: 01/16/2024 1010
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	45.1	2.81	5.00		mg/L	1	01/30/2024 173	01/31/2024 010	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-07

Client Sample ID: DUP20240117
Collection Date/Time: 01/17/2024 1012
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	69.9	28.1	50.0		mg/L	10	01/30/2024 1734	01/31/2024 012	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** FB20240717
Project: CQB **Collection Date/Time:** 01/17/2024 1022
Work Order: 24A0595 **Matrix:** Ground Water
Lab Sample ID: 24A0595-08 **Order Name:** CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	3.09	2.81	5.00	E4	mg/L	1	01/30/2024 1734	01/31/2024 014	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** EQB20240117
Project: CQB **Collection Date/Time:** 01/17/2024 1025
Work Order: 24A0595 **Matrix:** Ground Water
Lab Sample ID: 24A0595-09 **Order Name:** CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	3.11	2.81	5.00	E4	mg/L	1	01/30/2024 1734	01/31/2024 234	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-10

Client Sample ID: PANAGAKOS
Collection Date/Time: 01/17/2024 1210
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	193	28.1	50.0		mg/L	10	01/30/2024 173	01/31/2024 022	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-11

Client Sample ID: KEEFER
Collection Date/Time: 01/17/2024 1540
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.00	2.81	5.00		mg/L	1	01/30/2024 1734	01/31/2024 024	ACG

Turner Laboratories, Inc.

Date: 02/08/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Lab Sample ID: 24A0595-12

Client Sample ID: ROGERS E
Collection Date/Time: 01/18/2024 1000
Matrix: Ground Water
Order Name: CQB Quartery #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.60	2.81	5.00		mg/L	1	01/30/2024 173	01/31/2024 030	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0595
Date Received: 01/19/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2401309 - E300.0 (2.1)										
Blank (2401309-BLK1)				Prepared & Analyzed: 01/30/2024						
Sulfate	ND	5.00	mg/L							
LCS (2401309-BS1)				Prepared & Analyzed: 01/30/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2401309-BSD1)				Prepared & Analyzed: 01/30/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.07	10	
Matrix Spike (2401309-MS1)	**Source: 24A0815-01**			Prepared: 01/30/2024 Analyzed: 02/03/2024						
Sulfate	18	5.00	mg/L	12.50	8.6	79	80-120			M2
Matrix Spike (2401309-MS2)	**Source: 24A0823-02**			Prepared: 01/30/2024 Analyzed: 02/03/2024						
Sulfate	13	5.00	mg/L	12.50	3.1	79	80-120			M2
Matrix Spike Dup (2401309-MSD1)	**Source: 24A0815-01**			Prepared: 01/30/2024 Analyzed: 02/03/2024						
Sulfate	19	5.00	mg/L	12.50	8.6	80	80-120	0.9	10	
Matrix Spike Dup (2401309-MSD2)	**Source: 24A0823-02**			Prepared: 01/30/2024 Analyzed: 02/03/2024						
Sulfate	13	5.00	mg/L	12.50	3.1	79	80-120	0.09	10	M2

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24A0595 DATE 1/19/24 PAGE 1 OF 2

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX ~~520-432-1395~~

SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
ROGERS 596	1/15/24	1635		GW	1	✓
RUIZ 146	1/16/24	0912		GW	1	✓
SCHWARTZ	1/16/24	1115		GW	1	✓
POWER 639	1/16/24	1355		GW	1	✓
WEED	1/16/24	1500		GW	1	✓
DODSON	1/17/24	1010		GW	1	✓
DUP20240117	1/17/24	1012		GW	1	✓
FB20240117	1/17/24	1022		GW	1	✓
EQB20240117	1/17/24	1025		GW	1	✓
PANAGAKOS	1/17/24	1210		GW	1	✓
KEEFER	1/17/24	1540		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature
Graham Kilduff
Printed Name
Clear Creek Associates
Firm
1/19/24 0915
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Leonard Moody
Printed Name
TURNER LABORATORIES, INC.
Firm
1/19/24 0915
Date/Time

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

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

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

SAMPLE RECEIPT:
Total Containers 12
Temperature 2.7
☑ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS: IR33

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

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24A0595 DATE 1/19/24 PAGE 2 OF 2

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX 520-432-1395

SAMPLER'S SIGNATURE [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
ROGERS E	1/18/24	1000		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY: [signature]
Signature
Graham Kilduff
Printed Name
Clear Creek Associates
Firm
1/19/24 0915
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 12
Temperature 2.7
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY: [signature]
Signature
[signature]
Printed Name
TURNER LABORATORIES, INC.
Firm
1/19/24 0945
Date/Time

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUMENTS/COMMENTS: IR33

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

March 08, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24A0667
Order Name: CQB Quarterly
#CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 8 sample(s) on 01/23/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Date Received: 01/23/2024

Order: CQB Quarterly #CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24A0667-01	BMO-2015-2BL	Ground Water	01/23/2024 1034
24A0667-02	BMO-2015-2B	Ground Water	01/23/2024 0935
24A0667-03	COOPER988	Ground Water	01/22/2024 1406
24A0667-04	TM-10 USBP	Ground Water	01/22/2024 1543
24A0667-05	AWC--02	Ground Water	01/22/2024 1347
24A0667-06	AWC-04	Ground Water	01/22/2024 1140
24A0667-07	AWC-03	Ground Water	01/22/2024 1100
24A0667-08	AWC-05	Ground Water	01/23/2024 0956

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Date Received: 01/23/2024

Case Narrative

This report has been revised to correct a sample ID.

B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

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

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-01

Client Sample ID: BMO-2015-2BL
Collection Date/Time: 01/23/2024 1034
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	322	28.1	50.0		mg/L	10	02/05/2024 1021	02/05/2024 1410	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-02

Client Sample ID: BMO-2015-2B
Collection Date/Time: 01/23/2024 0935
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	280	28.1	50.0		mg/L	10	02/05/2024 1021	02/05/2024 1429	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-03

Client Sample ID: COOPER988
Collection Date/Time: 01/22/2024 1406
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	17.7	2.81	5.00		mg/L	1	02/05/2024 1021	02/05/2024 1547	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-04

Client Sample ID: TM-10 USBP
Collection Date/Time: 01/22/2024 1543
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	11.5	2.81	5.00		mg/L	1	02/05/2024 1021	02/05/2024 1606	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-05

Client Sample ID: AWC--02
Collection Date/Time: 01/22/2024 1347
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	19.3	2.81	5.00		mg/L	1	02/05/2024 1021	02/05/2024 1625	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-06

Client Sample ID: AWC-04
Collection Date/Time: 01/22/2024 1140
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	22.8	2.81	5.00		mg/L	1	02/05/2024 1021	02/05/2024 1645	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-07

Client Sample ID: AWC-03
Collection Date/Time: 01/22/2024 1100
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	69.5	2.81	5.00	B7	mg/L	1	02/01/2024 1040	02/02/2024 0916	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Lab Sample ID: 24A0667-08

Client Sample ID: AWC-05
Collection Date/Time: 01/23/2024 0956
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	23.2	2.81	5.00		mg/L	1	02/05/2024 1021	02/05/2024 1822	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0667
Date Received: 01/23/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2402008 - E300.0 (2.1)										
Matrix Spike (2402008-MS1)		**Source: 24A0667-04**		Prepared: 02/01/2024 Analyzed: 02/05/2024						
Sulfate	22	5.00	mg/L	12.50	11	82	80-120			
Matrix Spike Dup (2402008-MSD1)		**Source: 24A0667-04**		Prepared: 02/01/2024 Analyzed: 02/05/2024						
Sulfate	22	5.00	mg/L	12.50	11	82	80-120	0.01	10	
Batch 2402046 - E300.0 (2.1)										
Blank (2402046-BLK1)				Prepared & Analyzed: 02/05/2024						
Sulfate	ND	5.00	mg/L							
LCS (2402046-BS1)				Prepared & Analyzed: 02/05/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2402046-BSD1)				Prepared & Analyzed: 02/05/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.2	10	
Matrix Spike (2402046-MS1)		**Source: 24B0125-01**		Prepared: 02/05/2024 Analyzed: 02/07/2024						
Sulfate	25	5.00	mg/L	12.50	15	81	80-120			
Matrix Spike (2402046-MS2)		**Source: 24B0072-01**		Prepared: 02/05/2024 Analyzed: 02/07/2024						
Sulfate	52	5.00	mg/L	12.50	42	79	80-120			M2
Matrix Spike (2402046-MS3)		**Source: 24B0082-01**		Prepared: 02/05/2024 Analyzed: 02/07/2024						
Sulfate	20	5.00	mg/L	12.50	10	81	80-120			
Matrix Spike Dup (2402046-MSD1)		**Source: 24B0125-01**		Prepared: 02/05/2024 Analyzed: 02/07/2024						
Sulfate	25	5.00	mg/L	12.50	15	81	80-120	0.02	10	
Matrix Spike Dup (2402046-MSD2)		**Source: 24B0072-01**		Prepared: 02/05/2024 Analyzed: 02/07/2024						
Sulfate	52	5.00	mg/L	12.50	42	80	80-120	0.2	10	
Matrix Spike Dup (2402046-MSD3)		**Source: 24B0082-01**		Prepared: 02/05/2024 Analyzed: 02/07/2024						
Sulfate	20	5.00	mg/L	12.50	10	80	80-120	0.7	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24A0667 DATE 1/23/24 PAGE ____ OF ____

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX 520-432-1395

SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
BMO-2015-BL	1/23/24	1034		GW	1	✓
BMO-2015-2B	1/23/24	0935			1	✓
COOPER 988	1/22/24	1906			1	✓
TM-10 USBP	1/22/24	1543			1	✓
AWC-02	1/22/24	1347			1	✓
AWC-04	1/22/24	1140			1	✓
AWC-03	1/22/24	1100			1	✓
AWC-05	1/22/24	0956			1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature
Printed Name: Jacob Hussey
Firm: Clear Creek Associates
Date/Time: 1/23/24 1440

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name: TURNER LABORATORIES, INC.
Firm
Date/Time: 1/23/24 1640

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 8
Temperature 6.8
☑ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS: IK33

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

February 12, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24A0776
Order Name: CQB Quarterly
#CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 4 sample(s) on 01/26/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Date Received: 01/26/2024

Order: CQB Quarterly #CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24A0776-01	BOOTH	Ground Water	01/26/2024 1239
24A0776-02	NWC-04	Ground Water	01/26/2024 1104
24A0776-03	NWC-06	Ground Water	01/26/2024 0946
24A0776-04	NWC-02	Ground Water	01/26/2024 1020

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Date Received: 01/26/2024

Case Narrative

M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Lab Sample ID: 24A0776-01

Client Sample ID: BOOTH
Collection Date/Time: 01/26/2024 1239
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	156	28.1	50.0		mg/L	10	02/02/2024 1009	02/07/2024 0453	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Lab Sample ID: 24A0776-02

Client Sample ID: NWC-04
Collection Date/Time: 01/26/2024 1104
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	188	28.1	50.0		mg/L	10	02/02/2024 1009	02/07/2024 0512	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Lab Sample ID: 24A0776-03

Client Sample ID: NWC-06
Collection Date/Time: 01/26/2024 0946
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.45	2.81	5.00		mg/L	1	02/02/2024 1009	02/02/2024 1859	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Lab Sample ID: 24A0776-04

Client Sample ID: NWC-02
Collection Date/Time: 01/26/2024 1020
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.31	2.81	5.00	M2	mg/L	1	02/02/2024 1009	02/02/2024 1429	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24A0776
Date Received: 01/26/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2402024 - E300.0 (2.1)										
Blank (2402024-BLK1)				Prepared & Analyzed: 02/02/2024						
Sulfate	ND	5.00	mg/L							
LCS (2402024-BS1)				Prepared & Analyzed: 02/02/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2402024-BSD1)				Prepared & Analyzed: 02/02/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.2	10	
Matrix Spike (2402024-MS1)	**Source: 24A0776-04**			Prepared: 02/02/2024 Analyzed: 02/07/2024						
Sulfate	19	5.00	mg/L	12.50	9.3	80	80-120			M2
Matrix Spike (2402024-MS2)	**Source: 24A0827-03**			Prepared: 02/02/2024 Analyzed: 02/07/2024						
Sulfate	22	5.00	mg/L	12.50	11	84	80-120			
Matrix Spike Dup (2402024-MSD1)	**Source: 24A0776-04**			Prepared: 02/02/2024 Analyzed: 02/07/2024						
Sulfate	19	5.00	mg/L	12.50	9.3	80	80-120	0.3	10	
Matrix Spike Dup (2402024-MSD2)	**Source: 24A0827-03**			Prepared: 02/02/2024 Analyzed: 02/07/2024						
Sulfate	21	5.00	mg/L	12.50	11	83	80-120	0.3	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24A0776 DATE 1/26/24 PAGE 1 OF 1

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX 520-432-1395

SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
BOOTH	1/26/24	1239			1	✓
NWC-04	1/26/24	404			1	✓
NWC-06	1/26/24	0946			1	✓
NWC-02	1/26/24	1020			1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature
Jacob Hussey
Printed Name
Clear Creek Associates
Firm
1/26/24 1636
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
1/26/24 1636
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 4
Temperature 1.2
☑ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS: IR33

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

March 08, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24B0046
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 11 sample(s) on 02/01/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Date Received: 02/01/2024

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24B0046-01	BMO-2014-4BL	Ground Water	02/01/2024 1159
24B0046-02	BMO-2014-4B	Ground Water	02/01/2024 1121
24B0046-03	BMO-2015-1B	Ground Water	02/01/2024 1020
24B0046-04	BMO-2015-1BL	Ground Water	02/01/2024 0943
24B0046-05	BMO-2010-3M	Ground Water	01/31/2024 1300
24B0046-06	Dup 20240131	Ground Water	01/31/2024 1300
24B0046-07	FB20240131	Ground Water	01/31/2024 1300
24B0046-08	EQ20240131	Ground Water	01/31/2024 1300
24B0046-09	BMO-2010-3B	Ground Water	01/31/2024 1013
24B0046-10	BMO-2014-3BL	Ground Water	01/30/2024 1205
24B0046-11	BMO-2014-3BU	Ground Water	01/30/2024 1105

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Date Received: 02/01/2024

Case Narrative

This report has been revised to correct a sample ID.

M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-01

Client Sample ID: BMO-2014-4BL
Collection Date/Time: 02/01/2024 1159
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	123	28.1	50.0		mg/L	10	02/19/2024 1044	02/20/2024 1953	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-02

Client Sample ID: BMO-2014-4B
Collection Date/Time: 02/01/2024 1121
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	53.9	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 0613	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-03

Client Sample ID: BMO-2015-1B
Collection Date/Time: 02/01/2024 1020
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	177	28.1	50.0		mg/L	10	02/19/2024 1044	02/20/2024 2013	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-04

Client Sample ID: BMO-2015-1BL
Collection Date/Time: 02/01/2024 0943
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	252	28.1	50.0		mg/L	10	02/19/2024 1044	02/20/2024 2150	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-05

Client Sample ID: BMO-2010-3M
Collection Date/Time: 01/31/2024 1300
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.10	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 0711	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-06

Client Sample ID: Dup 20240131
Collection Date/Time: 01/31/2024 1300
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.63	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 0730	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-07

Client Sample ID: FB20240131
Collection Date/Time: 01/31/2024 1300
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	2.93	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 0907	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-08

Client Sample ID: EQ20240131
Collection Date/Time: 01/31/2024 1300
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	2.94	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 0926	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-09

Client Sample ID: BMO-2010-3B
Collection Date/Time: 01/31/2024 1013
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	21.4	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 0946	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-10

Client Sample ID: BMO-2014-3BL
Collection Date/Time: 01/30/2024 1205
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.53	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 1005	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Lab Sample ID: 24B0046-11

Client Sample ID: BMO-2014-3BU
Collection Date/Time: 01/30/2024 1105
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	7.77	2.81	5.00		mg/L	1	02/19/2024 1044	02/20/2024 1025	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0046
Date Received: 02/01/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2402205 - E300.0 (2.1)										
Blank (2402205-BLK1)				Prepared & Analyzed: 02/19/2024						
Sulfate	ND	5.00	mg/L							
LCS (2402205-BS1)				Prepared & Analyzed: 02/19/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2402205-BSD1)				Prepared & Analyzed: 02/19/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.09	10	
Matrix Spike (2402205-MS1)		**Source: 24B0523-01**		Prepared: 02/19/2024 Analyzed: 02/29/2024						
Sulfate	420	50.0	mg/L	125.0	330	76	80-120			M2
Matrix Spike (2402205-MS2)		**Source: 24B0523-03**		Prepared: 02/19/2024 Analyzed: 02/29/2024						
Sulfate	790	250	mg/L	625.0	2400	NR	80-120			M2
Matrix Spike (2402205-MS3)		**Source: 24B0523-03**		Prepared: 02/19/2024 Analyzed: 02/29/2024						
Sulfate	1400	500	mg/L	1250	2400	NR	80-120			M2
Matrix Spike Dup (2402205-MSD1)		**Source: 24B0523-01**		Prepared: 02/19/2024 Analyzed: 02/29/2024						
Sulfate	430	50.0	mg/L	125.0	330	81	80-120	1	10	
Matrix Spike Dup (2402205-MSD2)		**Source: 24B0523-03**		Prepared: 02/19/2024 Analyzed: 02/29/2024						
Sulfate	790	250	mg/L	625.0	2400	NR	80-120		10	M2
Matrix Spike Dup (2402205-MSD3)		**Source: 24B0523-03**		Prepared: 02/19/2024 Analyzed: 02/29/2024						
Sulfate	1400	500	mg/L	1250	2400	NR	80-120		10	M2

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24B0046 DATE 2/1/24 PAGE 1 OF 1

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
BMO-2014-4BL	2/1/24	1159			1	✓
BMO-2014-4B	2/1/24	1121			1	✓
BMO-2015-1B	2/1/24	1020			1	✓
BMO-2015-1BL	2/1/24	0943			1	✓
BMO-2010-3M	1/31/24	1300			1	✓
DUP 20240131	1/31/24	1300			1	✓
FB 20240131	1/31/24	1300			1	✓
EQ 20240131	1/31/24	1300			1	✓
BMO-2010-3B	1/31/24	1013			1	✓
BMO-2014-3BL	1/30/24	1205			1	✓
BMO-2011-3BU	1/30/24	1105			1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature
Jacob Hussey
Printed Name
Clear Creek Associates
Firm
2/1/24 1504
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
BRAD GORE
Printed Name
TURNER LABORATORIES, INC.
Firm
2/1/24 1508
Date/Time

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

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

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

SAMPLE RECEIPT:
Total Containers 11
Temperature 3.9
ZR-33
☐ Wet Ice ☒ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

March 03, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24B0208
Order Name: CQB Quarterly
#CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 4 sample(s) on 02/07/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Date Received: 02/07/2024

Order: CQB Quarterly #CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24B0208-01	BMO-2014-2BL	Ground Water	02/07/2024 1040
24B0208-02	BMO-2014-2BU	Ground Water	02/07/2024 0931
24B0208-03	BMO-2014-1BU	Ground Water	02/07/2024 1344
24B0208-04	BMO-2014-1BL	Ground Water	02/07/2024 1235

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Date Received: 02/07/2024

Case Narrative

M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Lab Sample ID: 24B0208-01

Client Sample ID: BMO-2014-2BL
Collection Date/Time: 02/07/2024 1040
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	453	28.1	50.0		mg/L	10	02/23/2024 1004	02/27/2024 2317	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Lab Sample ID: 24B0208-02

Client Sample ID: BMO-2014-2BU
Collection Date/Time: 02/07/2024 0931
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	73.9	2.81	5.00		mg/L	1	02/23/2024 1004	02/23/2024 2332	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Lab Sample ID: 24B0208-03

Client Sample ID: BMO-2014-1BU
Collection Date/Time: 02/07/2024 1344
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	196	28.1	50.0		mg/L	10	02/23/2024 1004	02/27/2024 2337	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Lab Sample ID: 24B0208-04

Client Sample ID: BMO-2014-1BL
Collection Date/Time: 02/07/2024 1235
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	178	28.1	50.0		mg/L	10	02/23/2024 1004	02/28/2024 0113	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0208
Date Received: 02/07/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2402265 - E300.0 (2.1)										
Blank (2402265-BLK1)				Prepared & Analyzed: 02/23/2024						
Sulfate	ND	5.00	mg/L							
LCS (2402265-BS1)				Prepared & Analyzed: 02/23/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2402265-BSD1)				Prepared & Analyzed: 02/23/2024						
Sulfate	13	5.00	mg/L	12.50		107	90-110	2	10	
Matrix Spike (2402265-MS1)		**Source: 24B0208-01RE1**		Prepared: 02/23/2024 Analyzed: 02/29/2024						
Sulfate	530	50.0	mg/L	125.0	450	58	80-120			M2
Matrix Spike (2402265-MS2)		**Source: 24B0208-03RE1**		Prepared: 02/23/2024 Analyzed: 02/29/2024						
Sulfate	310	50.0	mg/L	125.0	200	88	80-120			
Matrix Spike Dup (2402265-MSD1)		**Source: 24B0208-01RE1**		Prepared: 02/23/2024 Analyzed: 02/29/2024						
Sulfate	520	50.0	mg/L	125.0	450	54	80-120	1	10	M2
Matrix Spike Dup (2402265-MSD2)		**Source: 24B0208-03RE1**		Prepared: 02/23/2024 Analyzed: 02/29/2024						
Sulfate	300	50.0	mg/L	125.0	200	86	80-120	0.7	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
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www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24B0208 DATE 2/7/24 PAGE 1 OF 1

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX 520-432-1395

SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
BMW-2014-2BL	2/6/24	1040			1	✓
BMW-2014-2BU	2/6/24	0931			1	✓
BMW-2014-1BU	2/6/24	1344			1	✓
BMW-2014-1BL	2/6/24	1235			1	✓

1. RELINQUISHED BY:
Signature
Jacob Hussey
Printed Name
Clear Creek Associates
Firm
2/7/24 1234
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 4
Temperature 2.3
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
2/7/24 1234
Date/Time

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS: IR33

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

March 05, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24B0442
Order Name: CQB Quarterly
#CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 4 sample(s) on 02/14/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Bradley Gore
Project Manager

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Date Received: 02/14/2024

Order: CQB Quarterly #CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24B0442-01	FB240214	Ground Water	02/14/2024 0816
24B0442-02	EQB240214	Ground Water	02/14/2024 0820
24B0442-03	COB-MW2	Ground Water	02/14/2024 0950
24B0442-04	COB-WL	Ground Water	02/14/2024 1109

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Date Received: 02/14/2024

Case Narrative

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 03/05/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Lab Sample ID: 24B0442-01

Client Sample ID: FB240214
Collection Date/Time: 02/14/2024 0816
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	2.96	2.81	5.00		mg/L	1	02/28/2024 1005	02/28/2024 224	ACG

Turner Laboratories, Inc.

Date: 03/05/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Lab Sample ID: 24B0442-02

Client Sample ID: EQB240214
Collection Date/Time: 02/14/2024 0820
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	2.92	2.81	5.00		mg/L	1	02/28/2024 1005	02/28/2024 230	ACG

Turner Laboratories, Inc.

Date: 03/05/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Lab Sample ID: 24B0442-03

Client Sample ID: COB-MW2
Collection Date/Time: 02/14/2024 0950
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	24.5	2.81	5.00		mg/L	1	02/28/2024 100	02/29/2024 003	ACG

Turner Laboratories, Inc.

Date: 03/05/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Lab Sample ID: 24B0442-04

Client Sample ID: COB-WL
Collection Date/Time: 02/14/2024 1109
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	69.9	2.81	5.00		mg/L	1	02/28/2024 100	02/29/2024 005	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0442
Date Received: 02/14/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2402296 - E300.0 (2.1)										
Blank (2402296-BLK1)				Prepared & Analyzed: 02/28/2024						
Sulfate	ND	5.00	mg/L							
LCS (2402296-BS1)				Prepared & Analyzed: 02/28/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2402296-BSD1)				Prepared & Analyzed: 02/28/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110	0.4	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24B0442 DATE 2/14/2024 PAGE 1 OF 1

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS: SO4 (300.0)
FB240214	2-14-24	0816		GW	✓
EQB240214	2-14-24	0820		GW	✓
CQB-MW2	2-14-24	0950		GW	✓
CQB-WL	2-14-24	1109		GW	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature Jason Sean
Printed Name Clear Creek Associates
Firm
Date/Time 2/14/24 1411

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

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

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

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

SAMPLE RECEIPT: IR-33
Total Containers 4
Temperature 5.1
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name Preston Buttery
Firm TURNER LABORATORIES, INC.
Date/Time 02/14/24 1411

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

March 07, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24B0606
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 1 sample(s) on 02/21/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0606
Date Received: 02/21/2024

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24B0606-01	TVI-236	Ground Water	02/21/2024 1140

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0606
Date Received: 02/21/2024

Case Narrative

M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 03/07/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0606
Lab Sample ID: 24B0606-01

Client Sample ID: TVI-236
Collection Date/Time: 02/21/2024 1140
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	23.4	2.81	5.00		mg/L	1	02/21/2024 1608	03/01/2024 0645	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24B0606
Date Received: 02/21/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2402231 - E300.0 (2.1)										
Blank (2402231-BLK1)				Prepared & Analyzed: 02/21/2024						
Sulfate	ND	5.00	mg/L							
LCS (2402231-BS1)				Prepared & Analyzed: 02/21/2024						
Sulfate	13	5.00	mg/L	12.50		107	90-110			
LCS Dup (2402231-BSD1)				Prepared & Analyzed: 02/21/2024						
Sulfate	13	5.00	mg/L	12.50		106	90-110	0.3	10	
Matrix Spike (2402231-MS1)		**Source: 24B0623-01RE2**		Prepared: 02/21/2024 Analyzed: 03/05/2024						
Sulfate	5300	500	mg/L	1250	2700	209	80-120			M1
Matrix Spike Dup (2402231-MSD1)		**Source: 24B0623-01RE2**		Prepared: 02/21/2024 Analyzed: 03/05/2024						
Sulfate	5400	500	mg/L	1250	2700	212	80-120	0.7	10	M1

TURNER LABORATORIES INC.
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Tucson, Arizona 85745
(520) 882-5880
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 2430606 DATE 02/21/24 PAGE 1 OF 1

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Brench
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
TVI-236	2/21/24	1140		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY: [signature]
Signature
Printed Name: Graham Kildeff
Firm: Clear Creek Associates
Date/Time: 2/21/24 1434

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

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

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

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

SAMPLE RECEIPT: IR-33
Total Containers 1
Temperature 3.4
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY: [signature]
Signature
Printed Name: PRESTON [illegible]
Firm: TURNER LABORATORIES, INC.
Date/Time: 02/21/24 14:34

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee	**Project Name: Copper Queen Branch Sulfate Mitigation Order**
36 West Hwy 92	Work Order: **X4C0310**
Bisbee, AZ 85603	Reported: 28-Mar-24 10:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BMO-2008-1G	X4C0310-01	Ground Water	12-Mar-24 07:30	CLS	20-Mar-2024	
BMO-2012-1M	X4C0310-02	Ground Water	12-Mar-24 11:10	CLS	20-Mar-2024	
BMO-2008-11G	X4C0310-03	Ground Water	12-Mar-24 13:30	CLS	20-Mar-2024	
TM-7	X4C0310-04	Ground Water	12-Mar-24 14:38	CLS	20-Mar-2024	
BMO-2008-6M	X4C0310-05	Ground Water	13-Mar-24 11:10	CLS	20-Mar-2024	
BMO-2008-6B	X4C0310-06	Ground Water	13-Mar-24 12:10	CLS	20-Mar-2024	
BMO-2008-5M	X4C0310-07	Ground Water	13-Mar-24 13:25	CLS	20-Mar-2024	
BMO-2008-5B	X4C0310-08	Ground Water	13-Mar-24 13:55	CLS	20-Mar-2024	
BMO-2008-3B	X4C0310-09	Ground Water	13-Mar-24 14:50	CLS	20-Mar-2024	

Non-Detects are reported at the MDL.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-1G**
SVL Sample ID: **X4C0310-01 (Ground Water)**

Sampled: 12-Mar-24 07:30
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	94.7	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 12:57	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2012-1M**
SVL Sample ID: **X4C0310-02 (Ground Water)**

Sampled: 12-Mar-24 11:10
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	228	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 13:16	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
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(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-11G**
SVL Sample ID: **X4C0310-03 (Ground Water)**

Sampled: 12-Mar-24 13:30
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	13.4	mg/L	0.30	0.18		X412189	KAG	03/23/24 13:17	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
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(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **TM-7**
SVL Sample ID: **X4C0310-04 (Ground Water)**

Sampled: 12-Mar-24 14:38
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	101	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 13:52	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-6M**
SVL Sample ID: **X4C0310-05 (Ground Water)**

Sampled: 13-Mar-24 11:10
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	196	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 14:11	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-6B**
SVL Sample ID: **X4C0310-06 (Ground Water)**

Sampled: 13-Mar-24 12:10
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	7.39	mg/L	0.30	0.18		X412189	KAG	03/23/24 13:35	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-5M**
SVL Sample ID: **X4C0310-07 (Ground Water)**

Sampled: 13-Mar-24 13:25
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	188	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 14:48	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-5B**
SVL Sample ID: **X4C0310-08 (Ground Water)**

Sampled: 13-Mar-24 13:55
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	285	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 15:06	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Client Sample ID: **BMO-2008-3B**
SVL Sample ID: **X4C0310-09 (Ground Water)**

Sampled: 13-Mar-24 14:50
Received: 20-Mar-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	186	mg/L	3.00	1.80	10	X412189	KAG	03/21/24 16:01	D2

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: **X4C0310**
Reported: 28-Mar-24 10:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography								
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X412189	21-Mar-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X412189	21-Mar-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	36.0	25.8	10.0	102	90 - 110	X412189 - X4C0316-05	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	36.0	25.7	10.0	103	90 - 110	X412189 - X4C0316-06	21-Mar-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	36.2	36.0	10.0	0.5	20	104	X412189 - X4C0316-05	

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee	**Project Name: Copper Queen Branch Sulfate Mitigation Order**
36 West Hwy 92	Work Order: **X4C0310**
Bisbee, AZ 85603	Reported: 28-Mar-24 10:46

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

May 09, 2024

Ben Daigneau
Clear Creek Associates
221 N. Court Ave., Suite 101
Tucson, AZ 85701

TEL (520) 622-3222
FAX (520) 622-4040

Work Order No.: 24D0594
Order Name: Copper Queen GW Monitoring CC18.1030

RE: CQB Quarterly Monitoring

Dear Ben Daigneau,

Turner Laboratories, Inc. received 4 sample(s) on 04/19/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Date Received: 04/19/2024

Order: Copper Queen GW Monitoring
CC18.1030

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24D0594-01	NWC-04	Ground Water	04/19/2024 0753
24D0594-02	DUP240419	Ground Water	04/19/2024 0753
24D0594-03	FB240419	Ground Water	04/19/2024 0741
24D0594-04	EQB240419	Ground Water	04/19/2024 0746

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Date Received: 04/19/2024

Case Narrative

This report has been revised to correct the sample name for -01.

E4	Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.

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

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

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Lab Sample ID: 24D0594-01

Client Sample ID: NWC-04
Collection Date/Time: 04/19/2024 0753
Matrix: Ground Water
Order Name: Copper Queen GW Monitoring CC1

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	188	28.1	50.0		mg/L	10	04/19/2024 1011	05/07/2024 0448	ACG

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Lab Sample ID: 24D0594-02

Client Sample ID: DUP240419
Collection Date/Time: 04/19/2024 0753
Matrix: Ground Water
Order Name: Copper Queen GW Monitoring CC1

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	189	28.1	50.0		mg/L	10	04/19/2024 1011	05/07/2024 0507	ACG

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Lab Sample ID: 24D0594-03

Client Sample ID: FB240419
Collection Date/Time: 04/19/2024 0741
Matrix: Ground Water
Order Name: Copper Queen GW Monitoring CC1

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	4.23	2.81	5.00	E4	mg/L	1	04/19/2024 1011	04/20/2024 0135	ACG

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Lab Sample ID: 24D0594-04

Client Sample ID: EQB240419
Collection Date/Time: 04/19/2024 0746
Matrix: Ground Water
Order Name: Copper Queen GW Monitoring CC1

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	3.23	2.81	5.00	E4	mg/L	1	04/19/2024 1011	04/20/2024 0154	ACG

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 24D0594
Date Received: 04/19/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2404194 - E300.0 (2.1)										
Blank (2404194-BLK1)				Prepared & Analyzed: 04/19/2024						
Sulfate	ND	5.00	mg/L							
LCS (2404194-BS1)				Prepared & Analyzed: 04/19/2024						
Sulfate	13	5.00	mg/L	12.50		103	90-110			
LCS Dup (2404194-BSD1)				Prepared & Analyzed: 04/19/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110	0.5	10	
Matrix Spike (2404194-MS1)		**Source: 24D0236-19**		Prepared: 04/19/2024 Analyzed: 04/23/2024						
Sulfate	2100	250	mg/L	625.0	1500	98	80-120			
Matrix Spike (2404194-MS2)		**Source: 24D0236-20**		Prepared: 04/19/2024 Analyzed: 04/23/2024						
Sulfate	2200	250	mg/L	625.0	1500	109	80-120			
Matrix Spike (2404194-MS3)		**Source: 24D0236-21**		Prepared: 04/19/2024 Analyzed: 04/23/2024						
Sulfate	1500	250	mg/L	625.0	970	93	80-120			
Matrix Spike Dup (2404194-MSD1)		**Source: 24D0236-19**		Prepared: 04/19/2024 Analyzed: 04/23/2024						
Sulfate	2100	250	mg/L	625.0	1500	101	80-120	1	10	
Matrix Spike Dup (2404194-MSD2)		**Source: 24D0236-20**		Prepared: 04/19/2024 Analyzed: 04/23/2024						
Sulfate	2200	250	mg/L	625.0	1500	106	80-120	1	10	
Matrix Spike Dup (2404194-MSD3)		**Source: 24D0236-21**		Prepared: 04/19/2024 Analyzed: 04/23/2024						
Sulfate	1500	250	mg/L	625.0	970	86	80-120	3	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24D0594 DATE 4/19/2024 PAGE 1 OF 1

PROJECT NAME Copper Queen GW monitoring # CC18.1080
CONTACT NAME Graham Kildut
COMPANY NAME Clear Creek Associates
ADDRESS
ZIP 85701 PHONE (520)517-0188 EMAIL g.kildut@geo-logic.com
SAMPLER'S SIGNATURE Juan Sosa

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Sulfate 300.0
MWC-04	4/19/24	0753		GW	1	✓
Dup 240419	4/19/24	0753		GW	1	✓
FB 240419	4/19/24	0741		GW	1	✓
EQB 240419	4/19/24	0746		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

Base Neutrals 625/8270 ☐ Acids ☐ Volatile Organics ☐ 624 ☐ 524.2 ☐ 8260 ☐ TTHMS ☐ HAA5 ☐ Chloride ☐ Sulfate ☐ Resistivity ☐ NO_2 ☐ NO_3 ☐ TKN ☐ TPH ☐ 1664 ☐ Oil & Grease ☐ TCLP Analysis VOA ☐ Semi-VOA ☐ Pest. ☐ TCLP ☐ Metals Total ☐ Dissolved ☐ RCRA8 ☐ Total ☐ Cyanide Amen. ☐ WAD ☐ SDWA-INORGANICS PRIMARY ☐ SECONDARY ☐ Coliform MPN ☐ PIA ☐ pH ☐ Fecal ☐ Cr. ☐ Cl. ☐ COD ☐ Turb ☐ TSS ☐ BOD ☐

1. RELINQUISHED BY:
Juan Sosa
Signature
Juan Sosa
Printed Name
Clear Creek Associates
Firm
4/19/2024 1841
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
___ Standard (approx. 10 days)*
___ Next Day ___ 2 Day ___ 5 Day*
___ Email Preliminary Results
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 4
Temperature 6.8
☒ Wet Ice
☐ Ambient IR-33
☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Preston Bradbury
Printed Name
TURNER LABORATORIES, INC.
Firm
04/19/24 10:41
Date/Time

* LEGEND SAMPLE MATRIX
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

Compliance Analysis: ☐ Yes ☐ No
ADEQ Forms: ☐ Yes ☐ No
Mail ADEQ Forms: ☐ Yes ☐ No

Custody Seals ☐
Container Intact ☒
COC / Labels Agree ☒

Preservation Confirmation ☒
Appropriate Head Space ☒
Received Within Hold Time ☒

SPECIAL INSTRUCTIONS/COMMENTS:

August 09, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24G0697
Order Name: CQB Quarterly
CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 7 sample(s) on 07/29/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Date Received: 07/29/2024

Order: CQB Quarterly CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24G0697-01	Weis Kopt 897	Ground Water	07/26/2024 1436
24G0697-02	Rogers 596	Ground Water	07/26/2024 1056
24G0697-03	Ray	Ground Water	07/25/2024 1542
24G0697-04	Schwartze	Ground Water	07/23/2024 1322
24G0697-05	Keeter	Ground Water	07/25/2024 1114
24G0697-06	Echave	Ground Water	07/25/2024 0957
24G0697-07	Pionke 517	Ground Water	07/24/2024 1735

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Date Received: 07/29/2024

Case Narrative

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-01

Client Sample ID: Weis Kopt 897
Collection Date/Time: 07/26/2024 1436
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	16.6	2.81	5.00		mg/L	1	07/29/2024 0926	07/29/2024 1904	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-02

Client Sample ID: Rogers 596
Collection Date/Time: 07/26/2024 1056
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	521	56.1	100		mg/L	20	07/29/2024 0926	07/30/2024 1903	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-03

Client Sample ID: Ray
Collection Date/Time: 07/25/2024 1542
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	138	28.1	50.0		mg/L	10	07/29/2024 0926	07/30/2024 1923	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-04

Client Sample ID: Schwartze
Collection Date/Time: 07/23/2024 1322
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	141	28.1	50.0		mg/L	10	07/29/2024 0926	07/30/2024 1948	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-05

Client Sample ID: Keeter
Collection Date/Time: 07/25/2024 1114
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.10	2.81	5.00		mg/L	1	07/29/2024 0926	07/29/2024 2034	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-06

Client Sample ID: Echave
Collection Date/Time: 07/25/2024 0957
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	18.1	2.81	5.00		mg/L	1	07/29/2024 0926	07/29/2024 2059	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Lab Sample ID: 24G0697-07

Client Sample ID: Pionke 517
Collection Date/Time: 07/24/2024 1735
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	13.6	2.81	5.00		mg/L	1	07/29/2024 0926	07/29/2024 2118	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24G0697
Date Received: 07/29/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2407284 - E300.0 (2.1)										
Blank (2407284-BLK1)				Prepared & Analyzed: 07/29/2024						
Sulfate	ND	5.00	mg/L							
LCS (2407284-BS1)				Prepared & Analyzed: 07/29/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2407284-BSD1)				Prepared & Analyzed: 07/29/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110	0.1	10	
Matrix Spike (2407284-MS1)		**Source: 24G0697-01**		Prepared: 07/29/2024 Analyzed: 08/08/2024						
Sulfate	27	5.00	mg/L	12.50	17	85	80-120			
Matrix Spike Dup (2407284-MSD1)		**Source: 24G0697-01**		Prepared: 07/29/2024 Analyzed: 08/08/2024						
Sulfate	27	5.00	mg/L	12.50	17	85	80-120	0.2	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24G0697 DATE 7/29/24 PAGE 1 OF 1

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX: SO4 (300.0)
Wells Kopt 997	7/26/24	1136		GW	1	
Rogers 596	7/26/24	1056			1	
Ray	7/25/24	1542			1	
Schwartze	7/25/24	1322			1	
Keeler	7/25/24	1114			1	
Echave	7/25/24	0957			1	
Pinkes 17	7/24/24	1735			1	

1. RELINQUISHED BY:
Signature
Jacob Hussey
Printed Name
Clear Creek Associates
Firm
7/29/24 1130
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT:
IL33
Total Containers 7
Temperature 3.8
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
7/29/24 11:30
Date/Time

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

August 27, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24H0085
Order Name: CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 13 sample(s) on 08/05/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Date Received: 08/05/2024

Order: CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24H0085-01	AWC-02	Ground Water	08/01/2024 1305
24H0085-02	AWC-03	Ground Water	08/01/2024 1020
24H0085-03	AWC-04	Ground Water	08/01/2024 1105
24H0085-04	AWC-05	Ground Water	08/01/2024 0940
24H0085-05	TERRY 101	Ground Water	08/02/2024 1113
24H0085-06	MCCONNELL 459	Ground Water	08/01/2024 1640
24H0085-07	NESS	Ground Water	07/31/2024 1715
24H0085-08	PALMER	Ground Water	07/31/2024 1620
24H0085-09	PANAGAKOS	Ground Water	07/31/2024 1535
24H0085-10	EAST	Ground Water	07/31/2024 1020
24H0085-11	BURKE	Ground Water	07/31/2024 0917
24H0085-12	DODSON	Ground Water	07/30/2024 1520
24H0085-13	GARNER 635	Ground Water	07/31/2024 1453

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Date Received: 08/05/2024

Case Narrative

M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-01

Client Sample ID: AWC-02
Collection Date/Time: 08/01/2024 1305
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	18.0	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1407	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-02

Client Sample ID: AWC-03
Collection Date/Time: 08/01/2024 1020
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	66.9	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1426	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-03

Client Sample ID: AWC-04
Collection Date/Time: 08/01/2024 1105
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	20.8	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1445	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-04

Client Sample ID: AWC-05
Collection Date/Time: 08/01/2024 0940
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	23.3	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1504	ACG

Client:	Freeport McMoran - Copper Queen Branch	**Client Sample ID:**	TERRY 101
Project:	CQB	**Collection Date/Time:**	08/02/2024 1113
Work Order:	24H0085	**Matrix:**	Ground Water
Lab Sample ID:	24H0085-05	**Order Name:**	CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	10.5	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1524	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-06

Client Sample ID: MCCONNELL 459
Collection Date/Time: 08/01/2024 1640
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	27.5	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1543	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-07

Client Sample ID: NESS
Collection Date/Time: 07/31/2024 1715
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	40.1	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1603	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-08

Client Sample ID: PALMER
Collection Date/Time: 07/31/2024 1620
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	14.5	2.81	5.00		mg/L	1	08/15/2024 1024	08/19/2024 1622	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-09

Client Sample ID: PANAGAKOS
Collection Date/Time: 07/31/2024 1535
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	174	28.1	50.0		mg/L	10	08/15/2024 1009	08/20/2024 0205	ACG

Client:	Freeport McMoran - Copper Queen Branch	**Client Sample ID:**	EAST
Project:	CQB	**Collection Date/Time:**	07/31/2024 1020
Work Order:	24H0085	**Matrix:**	Ground Water
Lab Sample ID:	24H0085-10	**Order Name:**	CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	11.6	2.81	5.00		mg/L	1	08/15/2024 1009	08/16/2024 0013	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-11

Client Sample ID: BURKE
Collection Date/Time: 07/31/2024 0917
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	29.3	2.81	5.00		mg/L	1	08/15/2024 1009	08/16/2024 0037	ACG

Client:	Freeport McMoran - Copper Queen Branch	**Client Sample ID:**	DODSON
Project:	CQB	**Collection Date/Time:**	07/30/2024 1520
Work Order:	24H0085	**Matrix:**	Ground Water
Lab Sample ID:	24H0085-12	**Order Name:**	CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	46.9	2.81	5.00		mg/L	1	08/15/2024 1009	08/16/2024 0101	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Lab Sample ID: 24H0085-13

Client Sample ID: GARNER 635
Collection Date/Time: 07/31/2024 1453
Matrix: Ground Water
Order Name: CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	31.8	2.81	5.00		mg/L	1	08/15/2024 1009	08/16/2024 0125	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0085
Date Received: 08/05/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2408163 - E300.0 (2.1)										
Blank (2408163-BLK1)				Prepared & Analyzed: 08/15/2024						
Sulfate	ND	5.00	mg/L							
LCS (2408163-BS1)				Prepared & Analyzed: 08/15/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2408163-BSD1)				Prepared & Analyzed: 08/15/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110	0.1	10	
Matrix Spike (2408163-MS2)		**Source: 24H0446-02**		Prepared: 08/15/2024 Analyzed: 08/27/2024						
Sulfate	15	5.00	mg/L	12.50	5.3	79	80-120			M2
Matrix Spike Dup (2408163-MSD2)		**Source: 24H0446-02**		Prepared: 08/15/2024 Analyzed: 08/27/2024						
Sulfate	15	5.00	mg/L	12.50	5.3	79	80-120	0.3	10	M2
Batch 2408178 - E300.0 (2.1)										
Blank (2408178-BLK1)				Prepared & Analyzed: 08/15/2024						
Sulfate	ND	5.00	mg/L							
LCS (2408178-BS1)				Prepared & Analyzed: 08/15/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2408178-BSD1)				Prepared & Analyzed: 08/15/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.02	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0085 DATE 08/05/24 PAGE 1 OF 2

PROJECT NAME: CQB Quarterly # CC18.1080.00
CONTACT NAME: Chris Sherman
COMPANY NAME: Freeport-McMoRan Copper Queen Branch
ADDRESS: 36 Highway 92
CITY: Bisbee STATE: AZ ZIP CODE: 85603
PHONE: 520-508-7063 FAX: 520-432-1395
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
AWC-02	8/1/24	1305		GW	1	✓
AWC-03	8/1/24	1020		GW	1	✓
AWC-04	8/1/24	1105		GW	1	✓
AWC-05	8/1/24	0940		GW	1	✓
TERRY 101	8/2/24	1113		GW	1	✓
MCCONNELL 459	8/1/24	1640		GW	1	✓
NESS	7/31/24	1715		GW	1	✓
PALMER	7/31/24	1620		GW	1	✓
PANAGAKOS	7/31/24	1535		GW	1	✓
EAST	7/31/24	1620		GW	1	✓
BURKE	7/31/24	0917		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY: Signature: Graham Kildeff Printed Name: Clear Creek Associates Firm: 8/5/24 1246 Date/Time
2. RECEIVED BY: Signature: Printed Name: Firm: Date/Time
3. RELINQUISHED BY: Signature: Printed Name: Firm: Date/Time
4. RECEIVED BY: Signature: Preston Burney Printed Name: TURNER LABORATORIES, INC. Firm: 08/05/24 12:46 Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT: TR 3.3
Total Containers 12
Temperature 5.6
☒ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

Sample ID Garner 635 added per client - FB 8/5/24

TURNER LABORATORIES INC.
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www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0085 DATE 08/05/24 PAGE 1 OF 2

PROJECT NAME: CQB Quarterly # CC18.1080.00
CONTACT NAME: Chris Sherman
COMPANY NAME: Freeport-McMoRan Copper Queen Branch
ADDRESS: 36 Highway 92
CITY: Bisbee STATE: AZ ZIP CODE: 85603
PHONE: 520-508-7063 FAX: 520-432-1395
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
DODSON	7/30/24	1520		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature
Printed Name: Graham Kilduff
Firm: Clear Creek Associates
Date/Time: 8/5/24 1246

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
____Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT: TR-33
Total Containers: 12
Temperature: 5.6
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name: Preston Burbey
Firm: TURNER LABORATORIES, INC.
Date/Time: 08/05/24 12:46

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

September 05, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24H0321
Order Name: CQB Quarterly

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 27 sample(s) on 08/09/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Date Received: 08/09/2024

Order: CQB Quarterly

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24H0321-01	BMO-2015-2B	Ground Water	08/05/2024 1104
24H0321-02	DUP240805	Ground Water	08/05/2024 1104
24H0321-03	BMO-2015-2BL	Ground Water	08/05/2024 1216
24H0321-04	RAMIREZ	Ground Water	08/05/2024 1421
24H0321-05	FB240805	Ground Water	08/05/2024 1500
24H0321-06	EQB240805	Ground Water	08/05/2024 1507
24H0321-07	COOPER-988	Ground Water	08/05/2024 1836
24H0321-08	BMO-2010-3M	Ground Water	08/06/2024 1107
24H0321-09	BMO-2010-3B	Ground Water	08/06/2024 1237
24H0321-10	ROGER-E	Ground Water	08/06/2024 1441
24H0321-11	RUIZ-146	Ground Water	08/06/2024 1554
24H0321-12	DUP240806	Ground Water	08/06/2024 0000
24H0321-13	BMO-2015-1BL	Ground Water	08/07/2024 0916
24H0321-14	BMO-2015-1B	Ground Water	08/07/2024 0953
24H0321-15	BMO-2014-4B	Ground Water	08/07/2024 1133
24H0321-16	BMO-2014-4BL	Ground Water	08/07/2024 1212
24H0321-17	HOWARD-312	Ground Water	08/07/2024 1704
24H0321-18	BMO-2014-1BU	Ground Water	08/08/2024 1120
24H0321-19	BMO-2014-1BL	Ground Water	08/08/2024 1213
24H0321-20	BMO-2014-2BL	Ground Water	08/08/2024 0915
24H0321-21	BMO-2014-2BU	Ground Water	08/08/2024 0949
24H0321-22	WEED	Ground Water	08/08/2024 1611
24H0321-23	NWC-06	Ground Water	08/09/2024 0812
24H0321-24	NWC-02	Ground Water	08/09/2024 0910
24H0321-25	NWC-04	Ground Water	08/09/2024 1025
24H0321-26	TM10-USBP	Ground Water	08/09/2024 1148
24H0321-27	BANKS-986	Ground Water	08/09/2024 1453

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Date Received: 08/09/2024

Case Narrative

E4	Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

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

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-01

Client Sample ID: BMO-2015-2B
Collection Date/Time: 08/05/2024 1104
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	292	28.1	50.0		mg/L	10	08/26/2024 0833	08/28/2024 0842	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-02

Client Sample ID: DUP240805
Collection Date/Time: 08/05/2024 1104
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	289	28.1	50.0		mg/L	10	08/26/2024 0833	08/28/2024 0902	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-03

Client Sample ID: BMO-2015-2BL
Collection Date/Time: 08/05/2024 1216
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	335	28.1	50.0		mg/L	10	08/26/2024 0833	08/28/2024 0921	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-04

Client Sample ID: RAMIREZ
Collection Date/Time: 08/05/2024 1421
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.30	2.81	5.00		mg/L	1	08/26/2024 0833	08/28/2024 1058	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-05

Client Sample ID: FB240805
Collection Date/Time: 08/05/2024 1500
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	2.95	2.81	5.00	E4	mg/L	1	08/26/2024 0833	08/28/2024 1118	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-06

Client Sample ID: EQB240805
Collection Date/Time: 08/05/2024 1507
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	3.02	2.81	5.00	E4	mg/L	1	08/27/2024 2254	08/28/2024 1137	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-07

Client Sample ID: COOPER-988
Collection Date/Time: 08/05/2024 1836
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	17.8	2.81	5.00		mg/L	1	08/27/2024 2254	08/29/2024 0047	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-08

Client Sample ID: BMO-2010-3M
Collection Date/Time: 08/06/2024 1107
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	10.5	2.81	5.00		mg/L	1	08/27/2024 2254	08/29/2024 0106	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-09

Client Sample ID: BMO-2010-3B
Collection Date/Time: 08/06/2024 1237
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	22.0	2.81	5.00		mg/L	1	08/27/2024 2254	08/29/2024 0126	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-10

Client Sample ID: ROGER-E
Collection Date/Time: 08/06/2024 1441
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	10.8	2.81	5.00		mg/L	1	08/27/2024 2254	08/29/2024 0145	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-11

Client Sample ID: RUIZ-146
Collection Date/Time: 08/06/2024 1554
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	104	28.1	50.0		mg/L	10	08/27/2024 2254	08/28/2024 1333	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-12

Client Sample ID: DUP240806
Collection Date/Time: 08/06/2024 0000
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	10.7	2.81	5.00		mg/L	1	08/27/2024 2254	08/29/2024 0205	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-13

Client Sample ID: BMO-2015-1BL
Collection Date/Time: 08/07/2024 0916
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	289	28.1	50.0		mg/L	10	08/28/2024 1014	08/29/2024 0224	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-14

Client Sample ID: BMO-2015-1B
Collection Date/Time: 08/07/2024 0953
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	195	28.1	50.0		mg/L	10	08/28/2024 1014	08/29/2024 0401	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-15

Client Sample ID: BMO-2014-4B
Collection Date/Time: 08/07/2024 1133
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	87.0	28.1	50.0		mg/L	10	08/28/2024 1014	08/29/2024 0421	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-16

Client Sample ID: BMO-2014-4BL
Collection Date/Time: 08/07/2024 1212
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	123	28.1	50.0		mg/L	10	08/28/2024 1014	08/29/2024 1720	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-17

Client Sample ID: HOWARD-312
Collection Date/Time: 08/07/2024 1704
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	67.1	2.81	5.00		mg/L	1	08/28/2024 1014	08/29/2024 0500	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-18

Client Sample ID: BMO-2014-1BU
Collection Date/Time: 08/08/2024 1120
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	210	28.1	50.0		mg/L	10	08/28/2024 1014	08/29/2024 1739	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-19

Client Sample ID: BMO-2014-1BL
Collection Date/Time: 08/08/2024 1213
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	177	28.1	50.0		mg/L	10	08/28/2024 1014	08/29/2024 1916	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-20

Client Sample ID: BMO-2014-2BL
Collection Date/Time: 08/08/2024 0915
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	402	28.1	50.0		mg/L	10	08/29/2024 1017	08/29/2024 1936	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-21

Client Sample ID: BMO-2014-2BU
Collection Date/Time: 08/08/2024 0949
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	71.2	2.81	5.00		mg/L	1	08/29/2024 1017	08/29/2024 1430	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-22

Client Sample ID: WEED
Collection Date/Time: 08/08/2024 1611
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	13.8	2.81	5.00		mg/L	1	08/29/2024 1017	08/29/2024 1449	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-23

Client Sample ID: NWC-06
Collection Date/Time: 08/09/2024 0812
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.59	2.81	5.00		mg/L	1	08/29/2024 1017	08/29/2024 1509	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-24

Client Sample ID: NWC-02
Collection Date/Time: 08/09/2024 0910
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.42	2.81	5.00		mg/L	1	08/29/2024 1017	08/29/2024 1528	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-25

Client Sample ID: NWC-04
Collection Date/Time: 08/09/2024 1025
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	185	28.1	50.0		mg/L	10	08/29/2024 1017	08/29/2024 1955	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-26

Client Sample ID: TM10-USBP
Collection Date/Time: 08/09/2024 1148
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	11.3	2.81	5.00		mg/L	1	08/29/2024 1017	08/29/2024 1607	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Lab Sample ID: 24H0321-27

Client Sample ID: BANKS-986
Collection Date/Time: 08/09/2024 1453
Matrix: Ground Water
Order Name: CQB Quarterly

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	50.6	2.81	5.00		mg/L	1	08/29/2024 1017	08/29/2024 1627	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Date Received: 08/09/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2408278 - E300.0 (2.1)										
Blank (2408278-BLK1)				Prepared & Analyzed: 08/26/2024						
Sulfate	ND	5.00	mg/L							
LCS (2408278-BS1)				Prepared & Analyzed: 08/26/2024						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2408278-BSD1)				Prepared & Analyzed: 08/26/2024						
Sulfate	13	5.00	mg/L	12.50		103	90-110	0.5	10	
Batch 2408281 - E300.0 (2.1)										
Blank (2408281-BLK1)				Prepared: 08/27/2024 Analyzed: 08/28/2024						
Sulfate	ND	5.00	mg/L							
LCS (2408281-BS1)				Prepared: 08/27/2024 Analyzed: 08/28/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2408281-BSD1)				Prepared: 08/27/2024 Analyzed: 08/28/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.5	10	
Matrix Spike (2408281-MS1)		**Source: 24H0321-06**		Prepared: 08/27/2024 Analyzed: 09/04/2024						
Sulfate	13	5.00	mg/L	12.50	3.0	80	80-120			
Matrix Spike Dup (2408281-MSD1)		**Source: 24H0321-06**		Prepared: 08/27/2024 Analyzed: 09/04/2024						
Sulfate	13	5.00	mg/L	12.50	3.0	81	80-120	0.6	10	
Batch 2408290 - E300.0 (2.1)										
Blank (2408290-BLK1)				Prepared & Analyzed: 08/28/2024						
Sulfate	ND	5.00	mg/L							
LCS (2408290-BS1)				Prepared & Analyzed: 08/28/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2408290-BSD1)				Prepared & Analyzed: 08/28/2024						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.4	10	
Matrix Spike (2408290-MS1)		**Source: 24H0788-01**		Prepared: 08/28/2024 Analyzed: 09/04/2024						
Sulfate	55	5.00	mg/L	12.50	45	79	80-120			M2
Matrix Spike (2408290-MS2)		**Source: 24H0782-01**		Prepared: 08/28/2024 Analyzed: 09/04/2024						
Sulfate	39	5.00	mg/L	12.50	29	79	80-120			M2
Matrix Spike Dup (2408290-MSD1)		**Source: 24H0788-01**		Prepared: 08/28/2024 Analyzed: 09/04/2024						
Sulfate	55	5.00	mg/L	12.50	45	78	80-120	0.2	10	M2
Matrix Spike Dup (2408290-MSD2)		**Source: 24H0782-01**		Prepared: 08/28/2024 Analyzed: 09/04/2024						
Sulfate	39	5.00	mg/L	12.50	29	80	80-120	0.3	10	
Batch 2408318 - E300.0 (2.1)										
Blank (2408318-BLK1)				Prepared & Analyzed: 08/29/2024						
Sulfate	ND	5.00	mg/L							

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0321
Date Received: 08/09/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2408318 - E300.0 (2.1)										
LCS (2408318-BS1)				Prepared & Analyzed: 08/29/2024						
Sulfate	13	5.00	mg/L	12.50		103	90-110			
LCS Dup (2408318-BSD1)				Prepared & Analyzed: 08/29/2024						
Sulfate	13	5.00	mg/L	12.50		102	90-110	0.1	10	
Matrix Spike (2408318-MS1)		**Source: 24H0321-22**		Prepared: 08/29/2024 Analyzed: 09/04/2024						
Sulfate	24	5.00	mg/L	12.50	14	81	80-120			
Matrix Spike (2408318-MS2)		**Source: 24H0823-02**		Prepared: 08/29/2024 Analyzed: 09/04/2024						
Sulfate	13	5.00	mg/L	12.50	3.1	80	80-120			
Matrix Spike Dup (2408318-MSD1)		**Source: 24H0321-22**		Prepared: 08/29/2024 Analyzed: 09/04/2024						
Sulfate	24	5.00	mg/L	12.50	14	81	80-120	0.1	10	
Matrix Spike Dup (2408318-MSD2)		**Source: 24H0823-02**		Prepared: 08/29/2024 Analyzed: 09/04/2024						
Sulfate	13	5.00	mg/L	12.50	3.1	80	80-120	0.2	10	

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0321 DATE 08/09/24 PAGE 1 OF 3

PB 8/24

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX 520-432-1395

SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
BMO-2015-2B	8-5-24	1104		GW	1	✓
DUP240805	8-5-24	1104		GW	1	✓
BMO-2015-2BL	8-5-24	1216		GW	1	✓
RAMIREZ	8-5-24	1421		GW	1	✓
FB240805	8-5-24	1508		GW	1	✓
ECB240805	8-5-24	1507		GW	1	✓
COOPER-988	8-5-24	1836		GW	1	✓
BMO-2010-3M	8-6-24	1107		GW	1	✓
BMO-2010-3B	8-6-24	1237		GW	1	✓
ROGER-E	8-6-24	1441		GW	1	✓
RUIZ-146	8-6-24	1554		GW	1	✓

1. RELINQUISHED BY:
Signature: Jason Senn
Printed Name: Jason Senn
Firm: Clear Creek Associates
Date/Time: 8-9-2024/1654

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

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

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

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

SAMPLE RECEIPT: TR-33
Total Containers 27
Temperature 4.4
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name: Preston Phillips
Firm: TURNER LABORATORIES, INC.
Date/Time: 08/09/24 16:54

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0321 DATE 08/09/24 PAGE 2 OF 3 PB 8/14

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
OVP240806	8-6-24	0000		GW	1	✓
BMO-2015-1BL	8-7-24	0916		GW	1	✓
BMO-2015-1B	8-7-24	0953		GW	1	✓
BMO-2014-4B	8-7-24	1133		GW	1	✓
BMO-2014-4BL	8-7-24	1212		GW	1	✓
HOWARD-312	8-7-24	1704		GW	1	✓
BMO-2014-1BU	8-8-24	1120		GW	1	✓
BMO-2014-1BL	8-8-24	1213		GW	1	✓
BMO-2014-2BL	8-8-24	0915		GW	1	✓
BMO-2014-2BU	8-8-24	0944		GW	1	✓
WELD	8-8-24	1611		GW	1	✓

1. RELINQUISHED BY:
Signature Jason Sean
Printed Name Jason Sean
Firm Clear Creek Associates
Date/Time 8-9-2024 / 1654

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

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

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

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

SAMPLE RECEIPT: JR 33
Total Containers 27
Temperature 4.4
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name TURNER LABORATORIES, INC.
Firm 08/09/24 16:54
Date/Time

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

PB 8/9

TURNER WORK ORDER # 24H0321 DATE 08/09/24 PAGE 3 OF 3

PROJECT NAME CQB Quarterly # CC18.1080.00

CONTACT NAME : Chris Sherman

COMPANY NAME : Freeport-McMoRan Copper Queen Branch

ADDRESS : 36 Highway 92

CITY Bisbee STATE AZ ZIP CODE 85603

PHONE 520-508-7063 FAX 520-432-1395

SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
NWC-06	8-9-24	0812		GW	1	✓
NWC-02	8-9-24	0918		GW	1	✓
NWC-04	8-9-24	1025		GW	1	✓
TMW-VSBP	8-9-24	1148		GW	1	✓
BANKS-986	8-9-24	1453		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature: Jason Senn
Printed Name: Clear Creek Associates
Firm: 8-9-2024/1654
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results To:
* Working Days

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

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

SAMPLE RECEIPT: TR-33
Total Containers 27
Temperature 4.4
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name: Weston Rattay
Firm: TURNER LABORATORIES, INC.
Date/Time: 08/09/24 16:54

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
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SPECIAL INSTRUCTIONS/COMMENTS:

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

September 16, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24H0514
Order Name: CQB Quarterly
CC18.1080.00

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 24 sample(s) on 08/16/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Date Received: 08/16/2024

Order: CQB Quarterly CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24H0514-01	BMO-2014-3BU	Ground Water	08/12/2024 0952
24H0514-02	FB240812	Ground Water	08/12/2024 1017
24H0514-03	EQB240812	Ground Water	08/12/2024 1020
24H0514-04	BMO-2014-3BL	Ground Water	08/12/2024 1054
24H0514-05	DUP240812	Ground Water	08/12/2024 0000
24H0514-06	OLMOS	Ground Water	08/12/2024 1301
24H0514-07	FB240813	Ground Water	08/13/2024 0950
24H0514-08	EQB240813	Ground Water	08/13/2024 0955
24H0514-09	POWER-639	Ground Water	08/13/2024 1113
24H0514-10	DUP240813	Ground Water	08/13/2024 0000
24H0514-11	ANDERSON-458	Ground Water	08/13/2024 1533
24H0514-12	FB240814	Ground Water	08/14/2024 0909
24H0514-13	EQB240814	Ground Water	08/14/2024 0908
24H0514-14	COB-MW3	Ground Water	08/14/2024 0913
24H0514-15	DUP240814	Ground Water	08/14/2024 0000
24H0514-16	COB-MW-2	Ground Water	08/14/2024 0954
24H0514-17	COB-WL	Ground Water	08/14/2024 1330
24H0514-18	FB2408015	Ground Water	08/15/2024 0904
24H0514-19	EQB240815	Ground Water	08/15/2024 0905
24H0514-20	THOMPSON-341	Ground Water	08/15/2024 1028
24H0514-21	FRANCO-383	Ground Water	08/15/2024 1611
24H0514-22	TVI-236	Ground Water	08/16/2024 0820
24H0514-23	MOORE	Ground Water	08/16/2024 0952
24H0514-24	POOL	Ground Water	08/16/2024 1104

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Date Received: 08/16/2024

Case Narrative

E4	Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
H2	Initial analysis was performed within holding time. Reanalysis for the required dilution was past holding time.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
R5	MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met the acceptance criteria.

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

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

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-01

Client Sample ID: BMO-2014-3BU
Collection Date/Time: 08/12/2024 0952
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.30	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 1947	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-02

Client Sample ID: FB240812
Collection Date/Time: 08/12/2024 1017
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	2.96	2.81	5.00	E4	mg/L	1	09/04/2024 1010	09/04/2024 2006	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-03

Client Sample ID: EQB240812
Collection Date/Time: 08/12/2024 1020
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	ND	2.81	5.00	E8	mg/L	1	09/06/2024 1050	09/07/2024 0516	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-04

Client Sample ID: BMO-2014-3BL
Collection Date/Time: 08/12/2024 1054
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.20	2.81	5.00		mg/L	1	09/06/2024 1050	09/07/2024 0536	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-05

Client Sample ID: DUP240812
Collection Date/Time: 08/12/2024 0000
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.24	2.81	5.00		mg/L	1	09/06/2024 1050	09/07/2024 0555	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-06

Client Sample ID: OLMOS
Collection Date/Time: 08/12/2024 1301
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.59	2.81	5.00		mg/L	1	09/06/2024 1050	09/07/2024 0614	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-07

Client Sample ID: FB240813
Collection Date/Time: 08/13/2024 0950
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	ND	2.81	5.00	E8	mg/L	1	09/06/2024 1050	09/07/2024 0634	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-08

Client Sample ID: EQB240813
Collection Date/Time: 08/13/2024 0955
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	ND	2.81	5.00	E8	mg/L	1	09/06/2024 1050	09/07/2024 0653	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-09

Client Sample ID: POWER-639
Collection Date/Time: 08/13/2024 1113
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	217	28.1	50.0	H2	mg/L	10	09/09/2024 1000	09/13/2024 1322	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-10

Client Sample ID: DUP240813
Collection Date/Time: 08/13/2024 0000
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	160	28.1	50.0	H2	mg/L	10	09/09/2024 1000	09/13/2024 1341	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-11

Client Sample ID: ANDERSON-458
Collection Date/Time: 08/13/2024 1533
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	23.4	2.81	5.00		mg/L	1	09/09/2024 1000	09/09/2024 1344	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-12

Client Sample ID: FB240814
Collection Date/Time: 08/14/2024 0909
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	3.34	2.81	5.00	E4	mg/L	1	09/09/2024 1000	09/09/2024 1404	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-13

Client Sample ID: EQB240814
Collection Date/Time: 08/14/2024 0908
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	ND	2.81	5.00	E8	mg/L	1	09/09/2024 1000	09/09/2024 1423	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-14

Client Sample ID: COB-MW3
Collection Date/Time: 08/14/2024 0913
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	58.0	2.81	5.00		mg/L	1	09/09/2024 1000	09/09/2024 1442	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-15

Client Sample ID: DUP240814
Collection Date/Time: 08/14/2024 0000
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	57.9	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 2025	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-16

Client Sample ID: COB-MW-2
Collection Date/Time: 08/14/2024 0954
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	25.9	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 2045	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-17

Client Sample ID: COB-WL
Collection Date/Time: 08/14/2024 1330
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	73.7	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 2104	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-18

Client Sample ID: FB2408015
Collection Date/Time: 08/15/2024 0904
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	ND	2.81	5.00	E8	mg/L	1	09/09/2024 1000	09/09/2024 1502	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-19

Client Sample ID: EQB240815
Collection Date/Time: 08/15/2024 0905
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	3.30	2.81	5.00	E4	mg/L	1	09/09/2024 1000	09/09/2024 1521	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-20

Client Sample ID: THOMPSON-341
Collection Date/Time: 08/15/2024 1028
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.31	2.81	5.00		mg/L	1	09/04/2024 1010	09/12/2024 0408	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-21

Client Sample ID: FRANCO-383
Collection Date/Time: 08/15/2024 1611
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	388	28.1	50.0		mg/L	10	09/04/2024 1010	09/12/2024 0427	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-22

Client Sample ID: TVI-236
Collection Date/Time: 08/16/2024 0820
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	30.2	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 2300	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-23

Client Sample ID: MOORE
Collection Date/Time: 08/16/2024 0952
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.68	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 2320	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Lab Sample ID: 24H0514-24

Client Sample ID: POOL
Collection Date/Time: 08/16/2024 1104
Matrix: Ground Water
Order Name: CQB Quarterly CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	99.7	2.81	5.00		mg/L	1	09/04/2024 1010	09/04/2024 2339	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Date Received: 08/16/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2409037 - E300.0 (2.1)										
Blank (2409037-BLK1)				Prepared & Analyzed: 09/04/2024						
Sulfate	ND	5.00	mg/L							
LCS (2409037-BS1)				Prepared & Analyzed: 09/04/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2409037-BSD1)				Prepared & Analyzed: 09/04/2024						
Sulfate	13	5.00	mg/L	12.50		104	90-110	0.1	10	
Matrix Spike (2409037-MS1)	**Source: 24H0514-02**			Prepared: 09/04/2024 Analyzed: 09/12/2024						
Sulfate	14	5.00	mg/L	12.50	3.0	87	80-120			
Matrix Spike (2409037-MS2)	**Source: 24H0630-01**			Prepared: 09/04/2024 Analyzed: 09/12/2024						
Sulfate	48	5.00	mg/L	12.50	41	59	80-120			M2
Matrix Spike Dup (2409037-MSD1)	**Source: 24H0514-02**			Prepared: 09/04/2024 Analyzed: 09/12/2024						
Sulfate	13	5.00	mg/L	12.50	3.0	84	80-120	3	10	
Matrix Spike Dup (2409037-MSD2)	**Source: 24H0630-01**			Prepared: 09/04/2024 Analyzed: 09/12/2024						
Sulfate	51	5.00	mg/L	12.50	41	83	80-120	6	10	
Batch 2409061 - E300.0 (2.1)										
Blank (2409061-BLK1)				Prepared & Analyzed: 09/06/2024						
Sulfate	ND	5.00	mg/L							
LCS (2409061-BS1)				Prepared & Analyzed: 09/06/2024						
Sulfate	13	5.00	mg/L	12.50		106	90-110			
LCS Dup (2409061-BSD1)				Prepared & Analyzed: 09/06/2024						
Sulfate	13	5.00	mg/L	12.50		106	90-110	0.2	10	
Matrix Spike (2409061-MS1)	**Source: 24H0685-01**			Prepared: 09/06/2024 Analyzed: 09/07/2024						
Sulfate	39	5.00	mg/L	12.50	29	84	80-120			
Matrix Spike (2409061-MS2)	**Source: 24H0685-02**			Prepared: 09/06/2024 Analyzed: 09/07/2024						
Sulfate	290	50.0	mg/L	125.0	200	68	80-120			M2
Matrix Spike (2409061-MS3)	**Source: 24H0685-03**			Prepared: 09/06/2024 Analyzed: 09/07/2024						
Sulfate	42	5.00	mg/L	12.50	32	84	80-120			
Matrix Spike Dup (2409061-MSD1)	**Source: 24H0685-01**			Prepared: 09/06/2024 Analyzed: 09/07/2024						
Sulfate	39	5.00	mg/L	12.50	29	81	80-120	0.9	10	
Matrix Spike Dup (2409061-MSD2)	**Source: 24H0685-02**			Prepared: 09/06/2024 Analyzed: 09/07/2024						
Sulfate	290	50.0	mg/L	125.0	200	68	80-120	0.4	10	M2
Matrix Spike Dup (2409061-MSD3)	**Source: 24H0685-03**			Prepared: 09/06/2024 Analyzed: 09/07/2024						
Sulfate	42	5.00	mg/L	12.50	32	82	80-120	0.4	10	
Batch 2409084 - E300.0 (2.1)										
Blank (2409084-BLK1)				Prepared & Analyzed: 09/09/2024						
Sulfate	ND	5.00	mg/L							

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24H0514
Date Received: 08/16/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2409084 - E300.0 (2.1)										
LCS (2409084-BS1)				Prepared & Analyzed: 09/09/2024						
Sulfate	13	5.00	mg/L	12.50		107	90-110			
LCS Dup (2409084-BSD1)				Prepared & Analyzed: 09/09/2024						
Sulfate	13	5.00	mg/L	12.50		107	90-110	0.05	10	
Matrix Spike (2409084-MS1)		**Source: 24H0514-12**		Prepared & Analyzed: 09/09/2024						
Sulfate	16	5.00	mg/L	12.50	3.3	98	80-120			
Matrix Spike (2409084-MS2)		**Source: 24H0514-13**		Prepared & Analyzed: 09/09/2024						
Sulfate	14	5.00	mg/L	12.50	ND	110	80-120			
Matrix Spike Dup (2409084-MSD1)		**Source: 24H0514-12**		Prepared & Analyzed: 09/09/2024						
Sulfate	14	5.00	mg/L	12.50	3.3	85	80-120	11	10	R5
Matrix Spike Dup (2409084-MSD2)		**Source: 24H0514-13**		Prepared & Analyzed: 09/09/2024						
Sulfate	14	5.00	mg/L	12.50	ND	111	80-120	2	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0514 DATE 8/16/2024 PAGE 1 OF 3

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE Jason Olson

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
BMO-2014-3BU	8-12-24	0952		GW	1	✓
FB240812	8-12-24	1017		GW	1	✓
EQB240812	8-12-24	1020		GW	1	✓
BMO-2014-3BL	8-12-24	1054		GW	1	✓
DUP240812	8-12-24	0000		GW	1	✓
OLMOS	8-12-24	1301		GW	1	✓
FB240813	8-13-24	0950		GW	1	✓
EQB240813	8-13-24	0955		GW	1	✓
POWER-639	8-13-24	1113		GW	1	✓
DUP240813	8-13-24	0000		GW	1	✓
ANDERSON-458	8-13-24	1533		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature Jason Olson
Printed Name Jason Olson
Firm Clear Creek Associates
Date/Time 8-16-2024/1413

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name Matt Hutton
Firm TURNER LABORATORIES, INC.
Date/Time 8/16/24 14:13

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

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

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

SAMPLE RECEIPT:
IR 33
Total Containers 24
Temperature 4.3
✓ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0514 DATE 8/16/2024 PAGE 2 OF 3

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE Jason Sloan

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
FB240814	8-14-24	0909		GW	1	✓
EQB240814	8-14-24	0908		GW	1	✓
COB-MW3	8-14-24	0913		GW	1	✓
DVP240814	8-14-24	0900		GW	1	✓
COB-MW-2	8-14-24	0954		GW	1	✓
COB-WL	8-14-24	1330		GW	1	✓
FB240815	8-15-24	0904		GW	1	✓
EQB240815	8-15-24	0905		GW	1	✓
THOMPSON-341	8-15-24	1028		GW	1	✓
FRANCO-383	8-15-24	1611		GW	1	✓
TVI-236	8-16-24	0820		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature: Jason Sloan
Printed Name: Jason Sloan
Firm: Clear Creek Associates
Date/Time: 8-16-2024/1413

2. RECEIVED BY:
Signature:
Printed Name:
Firm:
Date/Time:

3. RELINQUISHED BY:
Signature:
Printed Name:
Firm:
Date/Time:

4. RECEIVED BY:
Signature:
Printed Name: TURNER LABORATORIES, INC.
Firm:
Date/Time: 8/16/24 14:13

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

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

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

SAMPLE RECEIPT:
IR 3
Total Containers 24
Temperature 4.3
☑ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 24H0514 DATE 8/16/24 PAGE 3 OF 3

PROJECT NAME CQB Quarterly # CC18.1080.00
CONTACT NAME : Chris Sherman
COMPANY NAME : Freeport-McMoRan Copper Queen Branch
ADDRESS : 36 Highway 92
CITY Bisbee STATE AZ ZIP CODE 85603
PHONE 520-508-7063 FAX 520-432-1395
SAMPLER'S SIGNATURE Jason Seaw

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	SO4 (300.0)
MOORE	8-16-24	0952		GW	1	✓
POOL	8-16-24	1104		GW	1	✓

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

1. RELINQUISHED BY:
Signature Jason Seaw
Printed Name Jason Seaw
Firm Clear Creek Associates
Date/Time 8-16-2024/1413

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name Martha Hoard
Firm TURNER LABORATORIES, INC.
Date/Time 8/16/24 14:13

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

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

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

SAMPLE RECEIPT:
Total Containers 24
Temperature 4.3
☑ Wet Ice ☐ Blue Ice

***LEGEND**
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

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

September 25, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24I0341
Order Name: CQB-Mitrgation
ec18.1080

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 2 sample(s) on 09/11/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24I0341
Date Received: 09/11/2024

Order: CQB-Mitrgation ec18.1080

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24I0341-01	Lair	Ground Water	09/11/2024 0906
24I0341-02	FULTZ	Ground Water	09/11/2024 1143

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24I0341
Date Received: 09/11/2024

Case Narrative

M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 09/25/2024

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24I0341
Lab Sample ID: 24I0341-01

Client Sample ID: Lair
Collection Date/Time: 09/11/2024 0906
Matrix: Ground Water
Order Name: CQB-Mitrgation ec18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	12.2	2.81	5.00		mg/L	1	09/11/2024 1621	09/11/2024 2158	ACG

Turner Laboratories, Inc.

Date: 09/25/2024

Client:	Freeport McMoran - Copper Queen Branch	**Client Sample ID:**	FULTZ
Project:	CQB	**Collection Date/Time:**	09/11/2024 1143
Work Order:	24I0341	**Matrix:**	Ground Water
Lab Sample ID:	24I0341-02	**Order Name:**	CQB-Mitrgation ec18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	74.5	2.81	5.00		mg/L	1	09/11/2024 1621	09/11/2024 2218	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24I0341
Date Received: 09/11/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2409112 - E300.0 (2.1)										
Blank (2409112-BLK1)				Prepared & Analyzed: 09/11/2024						
Sulfate	ND	5.00	mg/L							
LCS (2409112-BS1)				Prepared & Analyzed: 09/11/2024						
Sulfate	13	5.00	mg/L	12.50		106	90-110			
LCS Dup (2409112-BSD1)				Prepared & Analyzed: 09/11/2024						
Sulfate	13	5.00	mg/L	12.50		107	90-110	0.2	10	
Matrix Spike (2409112-MS1)	**Source: 24I0331-02**			Prepared: 09/11/2024 Analyzed: 09/18/2024						
Sulfate	16	5.00	mg/L	12.50	7.3	71	80-120			M2
Matrix Spike Dup (2409112-MSD1)	**Source: 24I0331-02**			Prepared: 09/11/2024 Analyzed: 09/18/2024						
Sulfate	15	5.00	mg/L	12.50	7.3	59	80-120	9	10	M2

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Fax: (520) 882-9788
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 2410341 DATE 9/11/24 PAGE 1 OF 1

PROJECT NAME CQB Mitigation # CC18.1080
CONTACT NAME Chris Sherman
COMPANY NAME Freeport McMoran
ADDRESS
ZIP PHONE EMAIL
SAMPLER'S SIGNATURE Jason Sear

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Chloride	Sulfate
LAIR	9-11-24	0906		GW	1	✓	
FULTZ	9-11-24	1143		GW	1	✓	

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

Base Neutrals 625/8270 ☐ Acids ☐ Volatile Organics ☐ 624 ☐ 524.2 ☐ 8260 ☐ TTHMS ☐ HAAS ☐ Chloride ☐ Sulfate ☐ Resistivity ☐ NO_2 ☐ NO_3 ☐ TKN ☐ TPH ☐ 1664 ☐ Oil & Grease ☐ VOA ☐ TCLP Analysis SemiVOA ☐ Pest. ☐ TCLP ☐ Metals ☐ Dissolved ☐ Total ☐ RCRA8 ☐ Total ☐ Cyanide Amen. ☐ WAD ☐ SDWA-INORGANICS PRIMARY ☐ SECONDARY ☐ MPN ☐ Coliform PA ☐ pH ☐ Fecal ☐ Cr^{+6} ☐ Cr^{+3} ☐ Turb ☐ COD ☐ TSS ☐ BOD ☐

1. RELINQUISHED BY:
Signature: Jason Sear
Printed Name: Jason Sear
Firm: Clear Creek Associates
Date/Time: 9-11-24 / 1411

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
___ Standard (approx. 10 days)*
___ Next Day ___ 2 Day ___ 5 Day*
___ Email Preliminary Results
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 2
Temperature 6.6
☒ Wet Ice
☐ Ambient IR-33
☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
9/11/24 1411
Date/Time

* LEGEND
SAMPLE MATRIX
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

Compliance Analysis: ☐ Yes ☐ No
ADEQ Forms: ☐ Yes ☐ No
Mail ADEQ Forms: ☐ Yes ☐ No

Custody Seals ☐
Container Intact ☒
COC / Labels Agree ☒

Preservation Confirmation ☒
Appropriate Head Space ☒
Received Within Hold Time ☒

SPECIAL INSTRUCTIONS/COMMENTS:

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4G0302**
Bisbee, AZ 85603	Reported: 31-Jul-24 19:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BMO-2008-1G	X4G0302-01	Ground Water	10-Jul-24 07:00	CLS	18-Jul-2024	
BMO-2012-1M	X4G0302-02	Ground Water	10-Jul-24 11:10	CLS	18-Jul-2024	
BMO-2010-1M	X4G0302-03	Ground Water	11-Jul-24 10:10	CLS	18-Jul-2024	
BMO-2008-6M	X4G0302-04	Ground Water	15-Jul-24 07:00	CLS	18-Jul-2024	
BMO-2008-6B	X4G0302-05	Ground Water	15-Jul-24 07:55	CLS	18-Jul-2024	
BMO-2008-5M	X4G0302-06	Ground Water	15-Jul-24 09:25	CLS	18-Jul-2024	
BMO-2008-5B	X4G0302-07	Ground Water	15-Jul-24 10:00	CLS	18-Jul-2024	
BMO-2008-11G	X4G0302-08	Ground Water	17-Jul-24 07:45	CLS	18-Jul-2024	

Non-Detects are reported at the MDL.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
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(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2008-1G**
SVL Sample ID: **X4G0302-01 (Ground Water)**

Sampled: 10-Jul-24 07:00
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	93.6	mg/L	3.00	1.80	10	X430211	RS	07/26/24 14:50	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2012-1M**
SVL Sample ID: **X4G0302-02 (Ground Water)**

Sampled: 10-Jul-24 11:10
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	217	mg/L	3.00	1.80	10	X430211	RS	07/26/24 15:06	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2010-1M**
SVL Sample ID: **X4G0302-03 (Ground Water)**

Sampled: 11-Jul-24 10:10
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	189	mg/L	3.00	1.80	10	X430211	RS	07/26/24 19:38	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2008-6M**
SVL Sample ID: **X4G0302-04 (Ground Water)**

Sampled: 15-Jul-24 07:00
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	184	mg/L	3.00	1.80	10	X430211	RS	07/26/24 19:54	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2008-6B**
SVL Sample ID: **X4G0302-05 (Ground Water)**

Sampled: 15-Jul-24 07:55
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	5.63	mg/L	0.30	0.18		X430211	RS	07/26/24 16:28	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2008-5M**
SVL Sample ID: **X4G0302-06 (Ground Water)**

Sampled: 15-Jul-24 09:25
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	179	mg/L	3.00	1.80	10	X430211	RS	07/26/24 18:19	M4

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2008-5B**
SVL Sample ID: **X4G0302-07 (Ground Water)**

Sampled: 15-Jul-24 10:00
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	273	mg/L	3.00	1.80	10	X430211	RS	07/26/24 20:10	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Client Sample ID: **BMO-2008-11G**
SVL Sample ID: **X4G0302-08 (Ground Water)**

Sampled: 17-Jul-24 07:45
Received: 18-Jul-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	12.9	mg/L	0.30	0.18		X430211	RS	07/29/24 21:55	

This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4G0302**
Reported: 31-Jul-24 19:22

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography								
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X430211	26-Jul-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X430211	26-Jul-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	15.7	5.63	10.0	101	90 - 110	X430211 - X4G0302-05	26-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	184	179	10.0	0.30R>S	90 - 110	X430211 - X4G0302-06	26-Jul-24	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	15.9	15.7	10.0	1.5	20	103	X430211 - X4G0302-05	

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4G0302**
Bisbee, AZ 85603	Reported: 31-Jul-24 19:22

Notes and Definitions

M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4H0016**
Bisbee, AZ 85603	Reported: 07-Aug-24 14:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BM0-2008-7M	X4H0016-01	Ground Water	29-Jul-24 07:05	CLS	01-Aug-2024	
BM0-2008-9M	X4H0016-02	Ground Water	29-Jul-24 08:50	CLS	01-Aug-2024	
TM-15	X4H0016-03	Ground Water	31-Jul-24 06:30	CLS	01-Aug-2024	
BM0-2008-3B	X4H0016-04	Ground Water	31-Jul-24 09:35	CLS	01-Aug-2024	
DUP-073124	X4H0016-05	Ground Water	31-Jul-24 09:35	CLS	01-Aug-2024	

Non-Detects are reported at the MDL.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
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Case Narrative: X4H0016

Analysis for EPA Method 300.0 is inherently a 'dissolved' analysis regardless of the presence of a 'dissolved' designation. Ion Chromatography performed at SVL is filtered several times as part of the analytical process regardless of field filtration.

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4H0016**
Reported: 07-Aug-24 14:00

Client Sample ID: **BM0-2008-7M**
SVL Sample ID: **X4H0016-01 (Ground Water)**

Sampled: 29-Jul-24 07:05
Received: 01-Aug-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	44.7	mg/L	3.00	1.80	10	X431240	RS	08/02/24 19:23	M4

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4H0016**
Reported: 07-Aug-24 14:00

Client Sample ID: **BM0-2008-9M**
SVL Sample ID: **X4H0016-02 (Ground Water)**

Sampled: 29-Jul-24 08:50
Received: 01-Aug-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	102	mg/L	3.00	1.80	10	X431240	RS	08/02/24 20:58	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
Project Manager Assistant

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4H0016**
Reported: 07-Aug-24 14:00

Client Sample ID: **TM-15**
SVL Sample ID: **X4H0016-03 (Ground Water)**

Sampled: 31-Jul-24 06:30
Received: 01-Aug-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	15.0	mg/L	0.30	0.18		X431240	RS	08/02/24 21:46	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4H0016**
Reported: 07-Aug-24 14:00

Client Sample ID: **BM0-2008-3B**
SVL Sample ID: **X4H0016-04 (Ground Water)**

Sampled: 31-Jul-24 09:35
Received: 01-Aug-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	206	mg/L	3.00	1.80	10	X431240	RS	08/02/24 22:33	

This data has been reviewed for accuracy and has been authorized for release.

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4H0016**
Reported: 07-Aug-24 14:00

Client Sample ID: **DUP-073124**
SVL Sample ID: **X4H0016-05 (Ground Water)**

Sampled: 31-Jul-24 09:35
Received: 01-Aug-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	15.0	mg/L	0.30	0.18		X431240	RS	08/02/24 22:49	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4H0016**
Reported: 07-Aug-24 14:00

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography								
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X431240	02-Aug-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X431240	02-Aug-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	53.5	44.7	10.0	0.30R>S	90 - 110	X431240 - X4H0016-01	02-Aug-24	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	53.8	53.5	10.0	0.6	20	91.0	X431240 - X4H0016-01	

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4H0016**
Bisbee, AZ 85603	Reported: 07-Aug-24 14:00

Notes and Definitions

M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4I0102**
Bisbee, AZ 85603	Reported: 19-Sep-24 14:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
TM-7	X4I0102-01	Ground Water	28-Aug-24 06:38	CLS	06-Sep-2024	
FB-082824	X4I0102-02	Ground Water	28-Aug-24 06:40	CLS	06-Sep-2024	
Hoban	X4I0102-03	Ground Water	28-Aug-24 10:00	CLS	06-Sep-2024	
TM-19A	X4I0102-04	Ground Water	04-Sep-24 06:40	CLS	06-Sep-2024	
EQB-090424	X4I0102-05	Ground Water	04-Sep-24 06:45	CLS	06-Sep-2024	

Non-Detects are reported at the MDL.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0102**
Reported: 19-Sep-24 14:44

Client Sample ID: **TM-7**
SVL Sample ID: **X4I0102-01 (Ground Water)**

Sampled: 28-Aug-24 06:38
Received: 06-Sep-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	97.2	mg/L	3.00	1.80	10	X437054	RS	09/11/24 20:32	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0102**
Reported: 19-Sep-24 14:44

Client Sample ID: **FB-082824**
SVL Sample ID: **X4I0102-02 (Ground Water)**

Sampled: 28-Aug-24 06:40
Received: 06-Sep-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X437054	RS	09/11/24 20:48	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0102**
Reported: 19-Sep-24 14:44

Client Sample ID: **Hoban**
SVL Sample ID: **X4I0102-03 (Ground Water)**

Sampled: 28-Aug-24 10:00
Received: 06-Sep-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	213	mg/L	3.00	1.80	10	X437054	RS	09/11/24 21:51	

This data has been reviewed for accuracy and has been authorized for release.

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0102**
Reported: 19-Sep-24 14:44

Client Sample ID: **TM-19A**
SVL Sample ID: **X4I0102-04 (Ground Water)**

Sampled: 04-Sep-24 06:40
Received: 06-Sep-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	65.2	mg/L	3.00	1.80	10	X437054	RS	09/11/24 22:54	

This data has been reviewed for accuracy and has been authorized for release.

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0102**
Reported: 19-Sep-24 14:44

Client Sample ID: **EQB-090424**
SVL Sample ID: **X4I0102-05 (Ground Water)**

Sampled: 04-Sep-24 06:45
Received: 06-Sep-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X437054	RS	09/11/24 23:10	

This data has been reviewed for accuracy and has been authorized for release.

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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0102**
Reported: 19-Sep-24 14:44

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography								
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X437054	11-Sep-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X437054	11-Sep-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	10.5	<0.30	10.0	105	90 - 110	X437054 - X4I0102-02	11-Sep-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.5	10.0	1.7	20	107	X437054 - X4I0102-02	

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4I0102**
Bisbee, AZ 85603	Reported: 19-Sep-24 14:44

Notes and Definitions

LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4I0321**
Bisbee, AZ 85603	Reported: 25-Sep-24 13:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BM0-2008-8M	X4I0321-01	Ground Water	18-Sep-24 09:10	CLS	19-Sep-2024	

Non-Detects are reported at the MDL.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0321**
Reported: 25-Sep-24 13:14

Client Sample ID: **BM0-2008-8M**
SVL Sample ID: **X4I0321-01 (Ground Water)**

Sampled: 18-Sep-24 09:10
Received: 19-Sep-24
Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Sulfate as SO4**	964	mg/L	15.0	9.00	50	X438203	RS	09/21/24 00:28	

This data has been reviewed for accuracy and has been authorized for release.

Tawnya M. Hall
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Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Bisbee Routine
Work Order: **X4I0321**
Reported: 25-Sep-24 13:14

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography								
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X438203	20-Sep-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X438203	20-Sep-24	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	34.1	24.1	10.0	99.5	90 - 110	X438203 - X4I0311-02	20-Sep-24	
EPA 300.0	Sulfate as SO4	mg/L	20.2	10.2	10.0	99.9	90 - 110	X438203 - X4I0312-02	20-Sep-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Sulfate as SO4	mg/L	20.4	20.2	10.0	0.8	20	101	X438203 - X4I0312-02	

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Freeport McMoRan - Bisbee	**Project Name: Bisbee Routine**
36 West Hwy 92	Work Order: **X4I0321**
Bisbee, AZ 85603	Reported: 25-Sep-24 13:14

Notes and Definitions

LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

December 18, 2024

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 24L0180
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 1 sample(s) on 12/05/2024 for the analyses presented in the following report.

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

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

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Elizabeth Kasik
Laboratory Director

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24L0180
Date Received: 12/05/2024

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
24L0180-01	NWC-04	Ground Water	12/05/2024 0810

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24L0180
Date Received: 12/05/2024

Case Narrative

M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.

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

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24L0180
Lab Sample ID: 24L0180-01

Client Sample ID: NWC-04
Collection Date/Time: 12/05/2024 0810
Matrix: Ground Water
Order Name: CQB

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	171	28.1	50.0		mg/L	10	12/05/2024 1000	12/16/2024 2123	ES

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 24L0180
Date Received: 12/05/2024

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2412056 - E300.0 (2.1)										
Blank (2412056-BLK1)				Prepared & Analyzed: 12/05/2024						
Sulfate	ND	5.00	mg/L							
LCS (2412056-BS1)				Prepared & Analyzed: 12/05/2024						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2412056-BSD1)				Prepared & Analyzed: 12/05/2024						
Sulfate	13	5.00	mg/L	12.50		102	90-110	0.2	10	
Matrix Spike (2412056-MS1)	**Source: 24K0567-02**			Prepared: 12/05/2024 Analyzed: 12/17/2024						
Sulfate	13	5.00	mg/L	12.50	3.0	78	80-120			M2
Matrix Spike (2412056-MS2)	**Source: 24L0191-01RE1**			Prepared: 12/05/2024 Analyzed: 12/17/2024						
Sulfate	260	50.0	mg/L	125.0	160	78	80-120			M2
Matrix Spike Dup (2412056-MSD1)	**Source: 24K0567-02**			Prepared: 12/05/2024 Analyzed: 12/17/2024						
Sulfate	13	5.00	mg/L	12.50	3.0	78	80-120	0.005	10	M2
Matrix Spike Dup (2412056-MSD2)	**Source: 24L0191-01RE1**			Prepared: 12/05/2024 Analyzed: 12/17/2024						
Sulfate	260	50.0	mg/L	125.0	160	78	80-120	0.1	10	M2

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12/5/24 ← DATE 2410180 PAGE 1 OF 1

PROJECT NAME CQB Mitigation # _____
CONTACT NAME Chris Sherman
COMPANY NAME Freeport McMoRan
ADDRESS _____
ZIP _____ PHONE _____ EMAIL _____
SAMPLER'S SIGNATURE Jason Seow

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX
MWC-04	12/5/24	0810		GW	1	SulFat 300.0

Base Neutrals 625/8270 ☐ Acids ☐ Volatile Organics 624 ☐ 524.2 ☐ 8260 THMS ☐ HAA5 ☐ Chloride ☐ Sulfate ☐ Resistivity NO2 ☐ NO3 ☐ TKN ☐ TPH ☐ 1664 ☐ Oil & Grease VOA ☐ TCLP Analysis Semi-VOA ☐ Pest. ☐ TCLP ☐ Metals Dissolved ☐ Total ☐ RCRA8 ☐ Total ☐ Cyanide Amen. ☐ WAD ☐ SDWA-INORGANICS PRIMARY ☐ SECONDARY ☐ MPN ☐ Coliform PIA ☐ pH ☐ Fecal ☐ Cr6 ☐ Cl2 ☐ Turb ☐ COD ☐ TSS ☐ BOD ☐

1. RELINQUISHED BY:
Signature: Jason Seow
Printed Name: Jason Seow
Firm: Clear Creek Associates
Date/Time: 12-5-24 / 1027

2. RECEIVED BY:
Signature: _____
Printed Name: _____
Firm: _____
Date/Time: _____

TURNAROUND REQUIREMENTS:
____ Standard (approx. 10 days)*
____ Next Day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results
* Working Days

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

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

SAMPLE RECEIPT:
Total Containers 1
Temperature 3.3
☒ Wet Ice ☐ Ambient ☐ Blue Ice
IR-48

3. RELINQUISHED BY:
Signature: _____
Printed Name: _____
Firm: _____
Date/Time: _____

4. RECEIVED BY:
Signature: _____
Printed Name: Kristyn Rubio
Firm: TURNER LABORATORIES, INC.
Date/Time: 12/5/24 1027

* LEGEND SAMPLE MATRIX
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

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

SPECIAL INSTRUCTIONS/COMMENTS:

Appendix C

Historical Data

CLEAR CREEK ASSOCIATES

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
ANDERSON 396	613396	3/20/08		7.25	21.1	1176	431
ANDERSON 396	613396	5/5/08		7.03	21.8	1231	452
ANDERSON 396	613396	7/14/08		7.11	21.6	1260	472
ANDERSON 396	613396	10/15/08		7.10	21.3	1252	475
ANDERSON 396	613396	1/27/09		7.27	21.0	965	488
ANDERSON 396	613396	4/14/09		7.12	21.8	1229	534
ANDERSON 396	613396	7/14/09		7.03	22.2	1372	550
ANDERSON 396	613396	10/12/09		6.98	21.5	1375	510
ANDERSON 396	613396	1/27/10		7.93	20.1	1449	523
ANDERSON 396	613396	4/21/10		7.40	20.7	1439	627
ANDERSON 396	613396	7/19/10		6.93	24.1	1420	648
ANDERSON 396	613396	10/19/10		7.03	20.6	1229	416
ANDERSON 396	613396	1/17/11		7.02	20.6	1334	562
ANDERSON 396	613396	4/11/11		6.92	15.1	1485	609
ANDERSON 396	613396	7/14/11		7.23	24.4	1451	678
ANDERSON 396	613396	10/11/11		6.65	21.2	1230	543
ANDERSON 396	613396	2/1/12		7.28	11.8	1360	551
ANDERSON 396	613396	4/25/12		7.10	23.9	1380	657
ANDERSON 396	613396	7/12/12		6.89	24.9	1520	667
ANDERSON 396	613396	10/10/12		7.40	24.0	1414	574
ANDERSON 396	613396	4/7/14		7.06	17.4	1057	175
ANDERSON 396	613396	7/11/14		7.35	21.4	1033	272
ANDERSON 396	613396	10/6/14		7.13	27.5	974	99.0
ANDERSON 396	613396	10/6/14	DUP	7.13	27.5	974	102.0
ANDERSON 458	221458	9/9/12		8.34	25.9	406.3	31
ANDERSON 458	221458	10/10/12		8.13	23.8	412.3	30.3
ANDERSON 458	221458	1/17/13		8.06	23.7	416.0	30.9
ANDERSON 458	221458	4/15/13		8.19	23.5	402.7	32.3
ANDERSON 458	221458	7/18/13		8.18	24.3	401.9	23
ANDERSON 458	221458	10/16/13		8.10	23.8	400.1	25.2
ANDERSON 458	221458	1/9/14		8.15	22.9	399.3	26.2
ANDERSON 458	221458	1/9/14	DUP	8.15	22.9	399.3	26.2
ANDERSON 458	221458	4/7/14		8.16	24.0	401.6	27.5
ANDERSON 458	221458	7/11/14		8.13	24.5	396.7	25.3
ANDERSON 458	221458	10/6/14		8.06	25.6	384.0	26.0
ANDERSON 458	221458	7/22/15		8.17	25.2	397.3	25.3
ANDERSON 458	221458	7/19/16		8.14	23.8	395.2	24.2
ANDERSON 458	221458	7/18/17		8.01	23.9	395.5	26.8
ANDERSON 458	221458	7/18/18		7.88	24.2	397.1	23.4
ANDERSON 458	221458	7/11/19		7.85	24.1	396.2	22.4
ANDERSON 458	221458	7/22/20		8.01	24.6	394.6	24.0
ANDERSON 458	221458	7/27/21		8.03	23.8	396.9	22.2
ANDERSON 458	221458	7/11/22		8.05	26.3	392.6	22.6
ANDERSON 458	221458	7/26/23		8.26	27.0	398.1	21.2
ANDERSON 458	221458	8/13/24		8.18	24.5	402.8	23.4
AWC-02	616586	1/7/08		ND	ND	ND	14
AWC-02	616586	3/3/08		ND	ND	ND	16
AWC-02	616586	5/5/08		ND	ND	ND	13.3
AWC-02	616586	8/12/08		7.01	22.3	630	14.3
AWC-02	616586	10/23/08		7.31	23.1	464	15.9
AWC-02	616586	3/11/09		7.19	21.8	420	15.5
AWC-02	616586	4/22/09		7.17	22.6	430	14.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-02	616586	7/22/09		7.24	22.7	444	14.2
AWC-02	616586	10/21/09		7.19	21.3	468	16.8
AWC-02	616586	2/3/10		7.44	19.7	449	18.6
AWC-02	616586	4/23/10		7.56	19.7	526	18.3
AWC-02	616586	7/20/10		7.27	23.9	450	18.2
AWC-02	616586	11/4/10		7.72	21.3	465.9	18.8
AWC-02	616586	1/19/11		7.84	19.0	500	18.4
AWC-02	616586	4/7/11		7.27	20.3	488.5	17.3
AWC-02	616586	7/13/11		5.93	23.9	431.5	12.9
AWC-02	616586	10/13/11		6.72	25.1	464.6	17.4
AWC-02	616586	10/13/11	DUP	6.72	25.1	464.6	17.4
AWC-02	616586	2/2/12		7.20	20.8	479.5	19.4
AWC-02	616586	4/24/12		7.23	23.0	430	15.5
AWC-02	616586	7/5/12		7.25	22.1	437.1	10.1
AWC-02	616586	10/18/12		7.48	21.6	473.6	13.0
AWC-02	616586	2/5/13		7.54	19.3	448.9	18.0
AWC-02	616586	4/11/13		7.53	22.1	471.3	17.2
AWC-02	616586	7/25/13		7.35	22.1	460.5	14.7
AWC-02	616586	10/9/13		7.53	21.2	476.4	15.5
AWC-02	616586	1/7/14		7.45	20.3	503.7	18.8
AWC-02	616586	1/7/14	DUP	7.45	20.3	503.7	18.9
AWC-02	616586	5/14/14		7.34	21.0	508.4	19.2
AWC-02	616586	7/16/14		7.54	21.8	499.5	19.2
AWC-02	616586	10/15/14		7.26	23.2	520	18.9
AWC-02	616586	1/29/15		7.44	21.4	511	20.5
AWC-02	616586	7/21/15		7.62	22.5	506.7	19.9
AWC-02	616586	1/13/16		7.63	20.6	411.2	8.27
AWC-02	616586	7/19/16		7.40	22.1	418.7	7.80
AWC-02	616586	1/19/17		7.33	20.5	428.7	9.87
AWC-02	616586	9/6/17		7.4	20.7	423.3	7.65
AWC-02	616586	1/17/18		7.26	20.5	442.6	13.0
AWC-02	616586	7/25/18		7.33	20.5	489.9	16.7
AWC-02	616586	7/25/18	DUP	7.33	20.5	489.9	16.9
AWC-02	616586	1/13/20		7.39	20.6	516.0	20.5
AWC-02	616586	8/13/20		7.29	21.0	519.3	16.3
AWC-02	616586	1/4/21		7.27	20.8	543.6	16.6
AWC-02	616586	7/20/21		7.11	20.1	538.3	18.6
AWC-02	616586	1/31/22		7.20	19.9	552.9	16.0
AWC-02	616586	1/31/22	DUP	7.20	19.9	552.9	16.0
AWC-02	616586	7/18/22		7.43	25.2	505.9	15.4
AWC-02	616586	1/30/23		7.42	19.6	530.6	15.2
AWC-02	616586	8/8/23		7.49	21.2	546.6	20.3
AWC-02	616586	1/22/24		7.38	19.1	563	19.3
AWC-02	616586	8/1/24		7.54	21.0	548.8	18.0
AWC-03	616585	1/7/08		ND	ND	ND	41
AWC-03	616585	3/3/08		ND	ND	ND	38
AWC-03	616585	5/5/08		ND	ND	ND	37.3
AWC-03	616585	8/12/08		7.28	22.4	469	38.8
AWC-03	616585	10/23/08		7.48	21.0	462	41.8
AWC-03	616585	3/11/09		7.25	21.2	445	64.2
AWC-03	616585	4/22/09		7.30	21.4	452	42.4
AWC-03	616585	7/22/09		7.39	22.6	456	41.8

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-03	616585	10/21/09		7.48	21.3	540	50.5
AWC-03	616585	2/3/10		7.44	19.7	449	42.0
AWC-03	616585	4/23/10		7.57	19.7	468	44.4
AWC-03	616585	7/20/10		7.29	23.8	460	46.7
AWC-03	616585	11/4/10		7.80	20.8	452.3	46.3
AWC-03	616585	1/19/11		7.07	19.6	560	49
AWC-03	616585	4/7/11		7.28	19.9	469.8	46.8
AWC-03	616585	7/13/11		6.33	23.1	458.8	47.6
AWC-03	616585	7/13/11	DUP	6.33	23.1	458.8	46.2
AWC-03	616585	10/13/11		6.69	23.8	463.6	48.8
AWC-03	616585	2/2/12		7.39	20.7	504.8	47.7
AWC-03	616585	4/24/12		7.28	22.1	450	51.8
AWC-03	616585	7/5/12		7.32	21.7	474.3	50.7
AWC-03	616585	10/18/12		7.44	21.3	477.4	51.3
AWC-03	616585	2/5/13		7.73	19.2	481.2	55
AWC-03	616585	4/11/13		7.51	22.2	486.4	66.1
AWC-03	616585	7/16/13		7.61	21.5	489.6	63.6
AWC-03	616585	10/9/13		7.57	20.5	485.8	49.4
AWC-03	616585	10/9/13	DUP	7.57	20.5	485.8	51
AWC-03	616585	1/7/14		7.62	20.4	486.3	56.6
AWC-03	616585	5/14/14		7.64	20.5	493.0	61.1
AWC-03	616585	7/16/14		7.68	21.4	506.9	69.1
AWC-03	616585	10/15/14		7.38	22.2	506.0	63.4
AWC-03	616585	1/29/15		7.59	21.2	495	77.1
AWC-03	616585	7/21/15		7.63	21.6	494	55.5
AWC-03	616585	1/13/16		7.62	19.9	474.1	43.5
AWC-03	616585	7/19/16		7.47	20.9	493.2	54.8
AWC-03	616585	1/19/17		7.41	20.0	480.4	57.1
AWC-03	616585	9/6/17		7.41	20.3	525.5	75.1
AWC-03	616585	1/17/18		7.25	19.9	487.6	57.0
AWC-03	616585	7/25/18		7.36	20.3	504.5	76.3
AWC-03	616585	1/16/19		7.33	20.1	500.8	75.7
AWC-03	616585	7/23/19		7.29	20.0	506.7	68.6
AWC-03	616585	1/13/20		7.64	19.3	513.9	74.4
AWC-03	616585	8/3/20		7.38	20.8	512.7	77.2
AWC-03	616585	1/4/21		7.42	20.7	523.7	73.6
AWC-03	616585	7/20/21		7.24	20.1	518.7	87.2
AWC-03	616585	1/31/22		7.35	19.7	517.8	68.8
AWC-03	616585	7/18/22		7.61	22.5	527.3	74.3
AWC-03	616585	1/30/23		7.50	20.7	519.8	73.9
AWC-03	616585	8/8/23		7.52	20.6	533.5	73.4
AWC-03	616585	1/22/24		7.55	19.5	525	69.5
AWC-03	616585	8/1/24		7.50	20.8	539.5	66.9
AWC-04	616584	2/4/08		ND	ND	ND	18
AWC-04	616584	4/7/08		ND	ND	ND	18
AWC-04	616584	6/2/08		ND	ND	ND	14.3
AWC-04	616584	8/12/08		7.08	22.5	458	21.6
AWC-04	616584	10/23/08		6.91	22.2	616	24
AWC-04	616584	3/11/09		7.02	21.3	539	27.2
AWC-04	616584	4/22/09		6.93	22.1	560	26.1
AWC-04	616584	7/22/09		7.13	22.5	587	26.2
AWC-04	616584	10/21/09		7.00	21.2	607	25.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-04	616584	2/3/10		7.35	19.3	438	16.3
AWC-04	616584	4/23/10		7.14	19.2	625	27.4
AWC-04	616584	7/20/10		7.02	24.1	600	26.6
AWC-04	616584	11/4/10		7.41	20.3	593.2	24
AWC-04	616584	1/19/11		8.15	20.5	690	26.2
AWC-04	616584	4/7/11		7.00	20.4	637.2	25.8
AWC-04	616584	7/13/11		6.88	20.4	610.1	25.7
AWC-04	616584	10/13/11		6.38	24.0	619.7	27.6
AWC-04	616584	2/2/12		6.97	20.1	637.6	27.2
AWC-04	616584	4/24/12		7.10	22.1	570	25.2
AWC-04	616584	7/5/12		7.03	21.6	568.0	28.2
AWC-04	616584	7/5/12	DUP	7.03	21.6	568.0	28.1
AWC-04	616584	10/18/12		7.20	20.8	606.7	26.6
AWC-04	616584	2/5/13		7.29	19.7	616.8	26.9
AWC-04	616584	4/11/13		7.38	21.7	595.4	26.2
AWC-04	616584	7/16/13		7.30	21.0	585.7	27.0
AWC-04	616584	10/9/13		7.36	20.4	588.6	24.6
AWC-04	616584	1/7/14		7.36	19.7	651.4	23.7
AWC-04	616584	5/14/14		7.38	19.8	674.2	22.7
AWC-04	616584	7/16/14		7.32	20.7	632.2	24.1
AWC-04	616584	7/16/14	DUP	7.32	20.7	632.2	22.9
AWC-04	616584	10/15/14		7.01	21.9	688	21.4
AWC-04	616584	1/29/15		7.20	21.0	687	22.9
AWC-04	616584	7/21/15		7.38	21.2	619.6	23.2
AWC-04	616584	1/13/16		7.42	19.2	556.6	27.0
AWC-04	616584	7/19/16		7.24	20.6	590.7	31.4
AWC-04	616584	1/19/17		7.06	19.6	658.6	22.9
AWC-04	616584	1/19/17	DUP	7.06	19.6	658.6	23.1
AWC-04	616584	9/6/17		7.17	19.8	571.0	25.8
AWC-04	616584	1/17/18		7.13	19.6	532.6	38.6
AWC-04	616584	7/25/18		6.99	19.3	663.1	24.3
AWC-04	616584	1/16/19		6.99	19.4	706.8	20.7
AWC-04	616584	7/23/19		7.06	19.5	591.8	24.2
AWC-04	616584	1/13/20		7.38	19.5	715.2	22.5
AWC-04	616584	8/3/20		6.92	20.0	731.5	23.2
AWC-04	616584	2/9/21		7.01	19.1	732.1	23.9
AWC-04	616584	2/9/21	DUP	7.01	19.1	732.1	23.3
AWC-04	616584	7/20/21		6.87	19.1	720.7	25.8
AWC-04	616584	1/31/22		6.98	18.9	756.6	24.9
AWC-04	616584	7/18/22		7.15	21.5	684.9	27.3
AWC-04	616584	1/30/23		7.16	20.1	690.6	24.2
AWC-04	616584	8/8/23		7.24	20.1	703.4	24.4
AWC-04	616584	1/22/24		7.13	18.5	755	22.8
AWC-04	616584	8/1/24		7.11	20.1	742.7	20.8
AWC-05	590620	2/4/08		ND	ND	ND	13
AWC-05	590620	4/7/08		ND	ND	ND	14
AWC-05	590620	6/2/08		ND	ND	ND	14.3
AWC-05	590620	8/12/08		6.74	23.3	425	14.9
AWC-05	590620	10/23/08		7.45	21.0	422	15.4
AWC-05	590620	3/11/09		7.31	22.1	398	16.5
AWC-05	590620	6/3/09		7.33	22.0	418	12.1
AWC-05	590620	7/22/09		7.49	24.4	423	14.1

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-05	590620	10/21/09		7.37	21.1	433	16.5
AWC-05	590620	2/3/10		7.35	19.3	438	16.3
AWC-05	590620	4/23/10		7.62	18.9	443	17.6
AWC-05	590620	7/20/10		7.62	24.2	440	19.1
AWC-05	590620	11/4/10		7.92	20.7	427.1	18.4
AWC-05	590620	1/19/11		7.64	20.3	420	17
AWC-05	590620	4/7/11		7.22	20.8	438.3	17.6
AWC-05	590620	7/13/11		6.52	22.9	419.8	17.9
AWC-05	590620	10/13/11		6.82	26.0	427.5	19
AWC-05	590620	2/2/12		7.35	21.4	427.9	19.5
AWC-05	590620	4/24/12		7.18	21.4	430	15.4
AWC-05	590620	7/5/12		7.24	22.6	432.1	19.1
AWC-05	590620	10/18/12		7.66	22.6	436.1	20.1
AWC-05	590620	2/5/13		7.57	20.2	437.7	20.1
AWC-05	590620	4/11/13		7.54	21.2	444.5	20.3
AWC-05	590620	7/16/13		7.56	21.3	454.5	18.0
AWC-05	590620	7/16/13	DUP	7.56	21.3	454.5	17.7
AWC-05	590620	10/9/13		7.58	21.3	455.3	15.4
AWC-05	590620	5/14/14		7.54	21.2	442.3	19.8
AWC-05	590620	7/16/14		7.60	22.6	470.9	20.3
AWC-05	590620	10/15/14		7.38	23	452	20.8
AWC-05	590620	1/29/15		7.64	19.6	443	18.0
AWC-05	590620	7/21/15		7.67	21.9	457.9	17.0
AWC-05	590620	1/13/16		7.69	19.9	444.4	14.4
AWC-05	590620	7/19/16		7.40	22.2	443.1	20.7
AWC-05	590620	1/19/17		7.45	21.4	436.7	21.9
AWC-05	590620	9/6/17		7.38	20.9	447.4	19.7
AWC-05	590620	9/6/17	DUP	7.38	20.9	447.4	20.5
AWC-05	590620	1/17/18		7.34	20.5	437.0	20.2
AWC-05	590620	7/25/18		7.35	20.4	456.9	17.9
AWC-05	590620	1/16/19		7.39	21.0	441.6	19.3
AWC-05	590620	1/13/20		7.81	18.8	448.2	20.2
AWC-05	590620	8/3/20		7.41	21.6	446.8	19.4
AWC-05	590620	1/4/21		7.41	21.2	456.6	18.7
AWC-05	590620	1/4/21	DUP	7.41	21.2	456.6	18.4
AWC-05	590620	7/20/21		7.28	20.6	448.6	23.3
AWC-05	590620	1/31/22		7.45	20.7	445.9	18.4
AWC-05	590620	7/18/22		7.57	23.4	448.9	23.2
AWC-05	590620	2/16/23		7.54	21.0	433.0	17.2
AWC-05	590620	8/8/23		7.63	21.9	438.5	23.6
AWC-05	590620	1/22/24		7.57	20.5	458	23.2
AWC-05	590620	8/1/24		7.63	21.8	449.8	23.3
BANKS 986	647986	2/27/08		7.53	21.8	980	44
BANKS 986	647986	5/12/08		7.40	22.1	1021	65.2
BANKS 986	647986	7/21/08		7.43	22.9	1034	82.2
BANKS 986	647986	10/13/08		7.28	21.7	980	53
BANKS 986	647986	1/21/09		7.66	21.6	872	164
BANKS 986	647986	4/8/09		7.56	22.7	933	47
BANKS 986	647986	7/9/09		7.59	23.1	871	70.9
BANKS 986	647986	10/7/09		7.50	22.2	838	67.7
BANKS 986	647986	2/25/10		7.56	21.1	1020	50.5
BANKS 986	647986	4/20/10		7.71	22.8	1013	53.9

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BANKS 986	647986	7/20/10		7.70	23.2	828.3	71.5
BANKS 986	647986	10/20/10		7.60	22.4	948.7	73.4
BANKS 986	647986	1/17/11		7.73	20.6	1038	53.5
BANKS 986	647986	4/5/11		7.66	21.5	965.0	64.5
BANKS 986	647986	7/11/11		7.72	25.4	890.0	68.8
BANKS 986	647986	10/12/11		7.88	21.2	1551	172
BANKS 986	647986	1/31/12		7.69	20.2	1017	64.3
BANKS 986	647986	1/31/12	DUP	7.69	20.2	1017	64.9
BANKS 986	647986	4/11/12		7.77	22.0	1025	64.0
BANKS 986	647986	7/6/12		7.66	23.7	940	78.6
BANKS 986	647986	7/6/12	DUP	7.66	23.7	940	77.9
BANKS 986	647986	10/4/12		7.73	22.0	845.4	62.6
BANKS 986	647986	1/18/13		7.82	21.9	832.4	70.5
BANKS 986	647986	4/8/13		7.87	20.7	861.7	62.9
BANKS 986	647986	7/9/13		8.04	22.9	769.1	67.9
BANKS 986	647986	10/15/13		7.59	21.7	1158	79.6
BANKS 986	647986	1/14/14		7.77	20.9	967.4	75.2
BANKS 986	647986	4/8/14		7.47	21.4	1337	113
BANKS 986	647986	7/8/14		7.58	22.3	1175	107
BANKS 986	647986	7/8/14	DUP	7.58	22.3	1175	110
BANKS 986	647986	10/21/14		7.37	22.7	1158	91.3
BANKS 986	647986	7/24/15		7.67	22.6	1002	76.3
BANKS 986	647986	7/12/16		7.59	22.2	1029	68.7
BANKS 986	647986	7/26/17		7.45	20.9	1012	88.6
BANKS 986	647986	7/30/18		7.40	21.0	987.6	66.6
BANKS 986	647986	7/11/19		7.27	22.2	933.8	67.6
BANKS 986	647986	8/13/20		7.34	21.8	931.5	66.1
BANKS 986	647986	7/20/21		7.42	21.6	990.8	69.6
BANKS 986	647986	7/11/22		7.49	21.0	920.7	61.0
BANKS 986	647986	7/25/23		7.60	22.1	957.8	65.0
BANKS 986	647986	8/9/24		7.61	22.4	1058	50.6
BF-01	539783	5/23/08		6.41	18.3	2698	1450
BF-01	539783	8/5/08		6.11	22.4	3095	1330
BF-01	539783	11/5/08		6.33	19.9	3027	1490
BF-01	539783	2/20/09		6.42	19.2	1477	1330
BF-01	539783	5/6/09		5.98	23.9	2632	1280
BF-01	539783	8/17/09		6.21	29.7	2948	1250
BF-01	539783	11/4/09		6.24	23.0	2846	1280
BF-01	539783	3/1/10		6.34	21.1	2945	1260
BF-01	539783	4/7/10		5.83	20.4	1853	1450
BF-01	539783	7/6/10		5.93	22.6	1403	1310
BF-01	539783	7/13/11		6.26	21.3	2960	1350
BF-01	539783	2/1/12		6.18	19.8	2910	1480
BF-01	539783	8/14/12		6.00	21.5	3000	1500
BIMA	577927	2/6/08		6.69	22.2	1335	210
BIMA	577927	4/25/08		6.37	23.1	1521	190
BIMA	577927	5/13/08		6.58	22.7	1489	195
BIMA	577927	6/23/08		6.30	23.3	1572	225
BIMA	577927	6/23/08	DUP	6.30	23.3	1572	196
BIMA	577927	7/29/08		6.44	23.0	1647	204
BIMA	577927	8/28/08		M	23.0	1776	256
BIMA	577927	9/23/08		6.29	23.0	1741	296

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BIMA	577927	10/22/08		6.41	22.3	1801	285
BIMA	577927	1/20/09		6.40	21.7	1233	190
BIMA	577927	1/20/09	DUP	6.40	21.7	1233	200
BIMA	577927	4/7/09		6.45	23.4	1436	212
BIMA	577927	7/8/09		6.31	23.4	1483	189
BIMA	577927	10/5/09		6.34	22.7	1525	233
BIMA	577927	1/20/10		6.88	17.0	M	222
BIMA	577927	4/19/10		6.70	21.9	1533	256
BIMA	577927	7/12/10		6.70	24.0	1577	273
BIMA	577927	10/18/10		6.47	24.3	1702	296
BIMA	577927	1/19/11		6.65	21.2	1672	283
BIMA	577927	4/4/11		6.61	24.0	1643	282
BIMA	577927	8/25/11		6.27	25.9	1460	300
BIMA	577927	10/10/11		6.5	24.1	1520	322
BIMA	577927	2/3/12		6.48	18.5	1540	312
BIMA	577927	4/23/12		6.57	23.9	1790	303
BIMA	577927	7/10/12		6.06	23.7	1200	301
BIMA	577927	11/29/12		6.51	20.6	1664	310
BIMA	577927	3/13/13		7.29	19.8	1175	317
BIMA	577927	4/10/13		6.64	13.9	1569	308
BIMA	577927	7/8/13		6.62	28.0	1580	301
BIMA	577927	10/11/13		6.57	21.8	1749	301
BIMA	577927	1/10/14		6.63	10.7	1664	297
BIMA	577927	4/10/14		6.62	15.8	1685	300
BIMA	577927	7/8/14		6.56	21.6	1653	297
BIMA	577927	10/23/14		6.25	23.9	1704	227
BIMA	577927	7/23/15		6.87	26.2	1627	271
BIMA	577927	7/15/16		6.90	28.7	1602	271
BIMA	577927	7/27/17		6.84	25.4	1553	304
BIMA	577927	7/11/19		6.75	28.2	1514	240
BIMA	577927	7/20/21		6.93	24.5	1396	200
BLOMMER	633472	2/5/08		7.43	20.2	714	206
BLOMMER	633472	4/21/08		7.06	21.9	753	201
BLOMMER	633472	5/15/08		7.16	22.2	845	211
BLOMMER	633472	6/23/08		6.93	21.5	903	193
BLOMMER	633472	7/29/08		7.21	22.2	921	203
BLOMMER	633472	8/27/08		7.12	22.1	864	189
BLOMMER	633472	9/23/08		7.16	22.3	818	193
BLOMMER	633472	10/22/08		7.17	21.3	873	200
BMO-2008-1G	909474	8/27/08		7.09	24.2	808	107
BMO-2008-1G	909474	11/11/08		7.00	20.8	721	143
BMO-2008-1G	909474	2/25/09		7.01	22.0	860	109
BMO-2008-1G	909474	4/28/09		7.04	22.2	762	198
BMO-2008-1G	909474	8/4/09		7.23	22.8	950	104
BMO-2008-1G	909474	10/27/09		7.11	21.9	922	103
BMO-2008-1G	909474	2/17/10		7.36	20.5	899.3	98.4
BMO-2008-1G	909474	4/15/10		7.04	22.2	711	95.2
BMO-2008-1G	909474	7/7/10		6.91	21.5	640	88.1
BMO-2008-1G	909474	7/7/10	DUP	6.91	21.5	640	87.1
BMO-2008-1G	909474	2/10/11		6.80	21.0	916	105
BMO-2008-1G	909474	7/12/11		7.2	26.6	1015	121
BMO-2008-1G	909474	2/8/12		7.02	20.2	869	116

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-1G	909474	8/14/12		6.97	21.9	959	120
BMO-2008-1G	909474	2/14/13		7.09	21.2	986	112
BMO-2008-1G	909474	8/14/13		6.96	21.6	1009	120
BMO-2008-1G	909474	2/13/14		6.76	21.1	1010	114
BMO-2008-1G	909474	7/22/14		6.87	22.0	1010	117
BMO-2008-1G	909474	2/4/15		7.35	22.1	942	116
BMO-2008-1G	909474	9/10/15		7.21	21.8	953	109
BMO-2008-1G	909474	3/3/16		7.16	22.1	950	108
BMO-2008-1G	909474	8/17/16		7.05	22.2	986	121
BMO-2008-1G	909474	3/1/17		6.99	22.1	923	110
BMO-2008-1G	909474	7/24/17		7.11	22.2	925	112
BMO-2008-1G	909474	2/14/18		7.08	20.9	924	112
BMO-2008-1G	909474	7/10/18		7.24	22.2	920	115
BMO-2008-1G	909474	2/5/19		7.15	21.4	920	99.5
BMO-2008-1G	909474	7/31/19		7.15	22.2	907	100
BMO-2008-1G	909474	2/5/20		7.19	21.7	914	105
BMO-2008-1G	909474	8/12/20		7.26	22.1	897	93.2
BMO-2008-1G	909474	2/2/21		7.21	21.3	878	92.6
BMO-2008-1G	909474	7/14/21		7.18	21.9	875	91.7
BMO-2008-1G	909474	1/31/22		7.03	19	865	96.7
BMO-2008-1G	909474	7/14/22		7.11	21.9	887	96.5
BMO-2008-1G	909474	2/28/23		6.96	21.2	872	90.2
BMO-2008-1G	909474	8/1/23		7.14	21.7	1013	94.0
BMO-2008-1G	909474	3/12/24		7.26	21.2	830	94.7
BMO-2008-1G	909474	7/10/24		7.34	21.4	1133	93.6
BMO-2008-3B	909147	7/18/08		7.35	23.9	615	106
BMO-2008-3B	909147	11/4/08		7.36	21.4	599	179
BMO-2008-3B	909147	11/4/08	DUP	7.36	21.4	599	177
BMO-2008-3B	909147	2/19/09		7.24	21.4	664	155
BMO-2008-3B	909147	5/11/09		7.23	22.1	631	149
BMO-2008-3B	909147	8/6/09		7.33	21.4	718	151
BMO-2008-3B	909147	8/6/09	DUP	7.33	21.4	718	156
BMO-2008-3B	909147	10/26/09		7.32	21.8	684	153
BMO-2008-3B	909147	3/3/10		7.38	21.4	695	164
BMO-2008-3B	909147	4/8/10		6.47	21.3	585	162
BMO-2008-3B	909147	7/1/10		6.92	21.4	541	157
BMO-2008-3B	909147	2/14/11		6.98	20.6	698	169
BMO-2008-3B	909147	7/12/11		7.04	21.4	672	148
BMO-2008-3B	909147	2/23/12		6.92	21.0	695	173
BMO-2008-3B	909147	7/10/12		7.02	21.5	651	150
BMO-2008-3B	909147	2/15/13		6.63	20.4	692	163
BMO-2008-3B	909147	8/27/13		7.1	21.1	725	170
BMO-2008-3B	909147	2/11/14		7.01	20.7	729	162
BMO-2008-3B	909147	7/21/14		6.98	21.0	706	163
BMO-2008-3B	909147	2/5/15		7.11	21.2	652	145
BMO-2008-3B	909147	9/14/15		7.29	21.7	638	133
BMO-2008-3B	909147	3/3/16		7.29	21.8	637	136
BMO-2008-3B	909147	8/18/16		7.18	21.4	637	139
BMO-2008-3B	909147	3/1/17		6.99	21.0	618	135
BMO-2008-3B	909147	7/26/17		7.17	21.5	648	147
BMO-2008-3B	909147	2/8/18		7.46	21.0	653	150
BMO-2008-3B	909147	7/10/18		7.35	21.9	663	154

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-3B	909147	2/5/19		7.41	21.2	703	169
BMO-2008-3B	909147	2/5/19	DUP	7.41	21.2	703	173
BMO-2008-3B	909147	8/6/19		7.29	22.2	727	165
BMO-2008-3B	909147	2/6/20		7.57	21.0	655	150
BMO-2008-3B	909147	8/12/20		7.39	21.6	647	132
BMO-2008-3B	909147	2/2/21		7.38	21.8	644	130
BMO-2008-3B	909147	7/27/21		7.29	21.6	670	147
BMO-2008-3B	909147	1/31/22		7.26	20.3	672	150
BMO-2008-3B	909147	8/1/22		7.30	21.9	735	181
BMO-2008-3B	909147	3/1/23		7.17	21.2	760	200
BMO-2008-3B	909147	8/29/23		7.39	21.3	814	209
BMO-2008-3B	909147	3/13/24		7.29	20.6	712	186
BMO-2008-3B	909147	7/31/24		7.37	21.7	959	206
BMO-2008-4B	910096	12/11/08		7.34	22.8	374	9.4
BMO-2008-4B	910096	2/18/09		7.17	23.2	370	13.4
BMO-2008-4B	910096	4/30/09		7.33	24.5	376	11.4
BMO-2008-4B	910096	4/30/09	DUP	7.33	24.5	376	11.8
BMO-2008-4B	910096	8/6/09		7.53	24.6	397	11.5
BMO-2008-4B	910096	10/27/09		7.53	23.7	379	11.2
BMO-2008-4B	910096	2/24/10		7.48	21.8	362	9.7
BMO-2008-4B	910096	4/16/10		7.70	23.4	330	9.73
BMO-2008-4B	910096	7/2/10		7.25	23.6	323	10.10
BMO-2008-4B	910096	2/15/11		7.65	22.2	362	8.90
BMO-2008-4B	910096	7/22/11		7.33	23.7	371	10.2
BMO-2008-4B	910096	2/23/12		7.21	22.3	354	10.5
BMO-2008-4B	910096	8/15/12		6.96	23.6	380	9.5
BMO-2008-4B	910096	1/15/13		7.63	22.7	370.2	10.3
BMO-2008-4B	910096	1/15/13	DUP	7.63	22.7	370.2	9.5
BMO-2008-4B	910096	4/15/13		7.75	23.0	368.2	11.2
BMO-2008-4B	910096	9/18/13		7.69	23.4	384.6	9.8
BMO-2008-4B	910096	1/9/14		7.81	22.2	371.4	11.1
BMO-2008-4B	910096	7/18/14		7.78	23.3	379.1	11.6
BMO-2008-4B	910096	9/30/17		7.43	22.6	392.5	9.88
BMO-2008-4B	910096	7/26/18		7.43	22.6	386.1	10.9
BMO-2008-4B	910096	7/22/19		7.53	22.8	377.1	11.2
BMO-2008-4B	910096	7/22/19	DUP	7.53	22.8	377.1	11.2
BMO-2008-4B	910096	8/11/20		7.50	23.5	372.9	10.7
BMO-2008-4B	910096	7/22/21		7.53	22.7	378.1	12.0
BMO-2008-4B	910096	8/1/22		7.61	23.2	381.2	17.0
BMO-2008-5B	909653	9/30/08		7.08	22.0	688	193
BMO-2008-5B	909653	2/18/09		7.03	21.5	691	192
BMO-2008-5B	909653	4/27/09		7.32	22.1	605	177
BMO-2008-5B	909653	8/4/09		7.35	22.3	724	174
BMO-2008-5B	909653	10/29/09		7.29	21.8	731	181
BMO-2008-5B	909653	10/29/09	DUP	7.29	21.8	731	185
BMO-2008-5B	909653	2/15/10		7.22	21.7	720	185
BMO-2008-5B	909653	4/15/10		7.21	23.0	571	194
BMO-2008-5B	909653	7/7/10		6.94	22.2	551	183
BMO-2008-5B	909653	10/5/10		6.85	22.3	722	201
BMO-2008-5B	909653	2/14/11		6.90	21.8	725	203
BMO-2008-5B	909653	5/12/11		7.06	21.5	722	195
BMO-2008-5B	909653	7/13/11		6.99	22.0	712	200

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-5B	909653	12/7/11		6.95	19.9	730	213
BMO-2008-5B	909653	2/3/12		7.16	20.2	726	215
BMO-2008-5B	909653	4/18/12		6.96	21.7	712	192
BMO-2008-5B	909653	7/10/12		6.87	21.5	726	218
BMO-2008-5B	909653	10/16/12		6.69	21.4	712	207
BMO-2008-5B	909653	2/7/13		7.40	21.4	771.4	229
BMO-2008-5B	909653	2/12/13		6.49	20.7	752	227
BMO-2008-5B	909653	5/15/13		7.01	21.8	742	220
BMO-2008-5B	909653	8/20/13		7.00	21.7	792	226
BMO-2008-5B	909653	11/1/13		6.92	21.5	792	233
BMO-2008-5B	909653	2/11/14		6.88	21.5	804	230
BMO-2008-5B	909653	5/7/14		6.87	21.5	800	228
BMO-2008-5B	909653	8/19/14		6.99	21.6	795	221
BMO-2008-5B	909653	11/13/14		6.92	21.9	755	228
BMO-2008-5B	909653	2/3/15		7.05	21.8	755	227
BMO-2008-5B	909653	9/8/15		7.16	22.3	764	236
BMO-2008-5B	909653	3/14/16		7.06	21.5	774	237
BMO-2008-5B	909653	9/14/16		7.22	21.8	771	240
BMO-2008-5B	909653	3/1/17		7.07	21.5	756	243
BMO-2008-5B	909653	8/1/17		7.05	22	779	245
BMO-2008-5B	909653	2/8/18		7.28	21.4	798	267
BMO-2008-5B	909653	3/8/18		7.3	21.4	792	246
BMO-2008-5B	909653	3/8/18	DUP	7.3	21.4	792	246
BMO-2008-5B	909653	4/11/18		7.25	21.4	814	240
BMO-2008-5B	909653	5/29/18		7.31	22.1	811	262
BMO-2008-5B	909653	6/19/18		7.26	22.3	817	252
BMO-2008-5B	909653	7/25/18		7.02	23.0	794	250
BMO-2008-5B	909653	2/4/19		7.06	21.6	802	238
BMO-2008-5B	909653	8/7/19		7.09	22.3	814	239
BMO-2008-5B	909653	2/6/20		7.12	21.5	812	258
BMO-2008-5B	909653	8/11/20		7.07	23.0	785	240
BMO-2008-5B	909653	2/2/21		7.04	21.8	818	246
BMO-2008-5B	909653	7/12/21		7.12	22.2	849	257
BMO-2008-5B	909653	1/31/22		6.96	22.2	858	280
BMO-2008-5B	909653	7/11/22		6.92	22.2	844	288
BMO-2008-5B	909653	2/27/23		6.96	21.5	875	268
BMO-2008-5B	909653	7/31/23		7.21	21.6	986	275
BMO-2008-5B	909653	3/13/24		7.25	21.4	865	285
BMO-2008-5B	909653	7/15/24		7.05	22.8	1146	273
BMO-2008-5M	909552	10/2/08		7.13	23.6	551	107
BMO-2008-5M	909552	2/18/09		7.06	22.5	562	122
BMO-2008-5M	909552	4/27/09		7.50	22.9	501	111
BMO-2008-5M	909552	8/4/09		7.53	23.1	605	122
BMO-2008-5M	909552	10/29/09		7.35	22.4	610	123
BMO-2008-5M	909552	2/15/10		7.31	22.5	581	123
BMO-2008-5M	909552	4/16/10		7.28	22.6	509	125
BMO-2008-5M	909552	4/16/10	DUP	7.28	22.6	509	124
BMO-2008-5M	909552	7/7/10		7.02	23.5	482	123
BMO-2008-5M	909552	10/5/10		6.81	22.5	602	127
BMO-2008-5M	909552	2/14/11		6.95	22.2	591	124
BMO-2008-5M	909552	5/12/11		7.16	23.0	558	119
BMO-2008-5M	909552	7/12/11		7.22	22.7	590	126

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-5M	909552	12/7/11		7.1	21.2	601	129
BMO-2008-5M	909552	2/3/12		6.99	21.5	589	130
BMO-2008-5M	909552	4/18/12		6.71	22.4	587	120
BMO-2008-5M	909552	7/10/12		6.82	22.4	592	135
BMO-2008-5M	909552	10/16/12		6.86	21.9	591	134
BMO-2008-5M	909552	2/12/13		6.65	21.6	610	139
BMO-2008-5M	909552	5/15/13		6.73	22.4	603	135
BMO-2008-5M	909552	8/20/13		7.18	22.5	640	138
BMO-2008-5M	909552	11/1/13		7.07	22.0	641	142
BMO-2008-5M	909552	2/11/14		6.84	22.1	646	138
BMO-2008-5M	909552	5/7/14		6.85	22.1	648	140
BMO-2008-5M	909552	8/19/14		6.97	22.1	645	143
BMO-2008-5M	909552	11/13/14		7.18	22.6	612	139
BMO-2008-5M	909552	2/3/15		7.26	22.5	612	143
BMO-2008-5M	909552	9/8/15		7.19	23.1	615	146
BMO-2008-5M	909552	3/14/16		7.26	22.5	618	142
BMO-2008-5M	909552	9/14/16		7.12	22.5	623	153
BMO-2008-5M	909552	3/1/17		6.97	22.4	621	157
BMO-2008-5M	909552	8/1/17		7.11	22.8	636	159
BMO-2008-5M	909552	2/8/18		7.26	22.4	646	168
BMO-2008-5M	909552	7/25/18		7.22	23.2	651	161
BMO-2008-5M	909552	2/4/19		7.40	22.1	654	155
BMO-2008-5M	909552	8/7/19		7.32	23.0	659	152
BMO-2008-5M	909552	2/6/20		7.32	22.2	662	169
BMO-2008-5M	909552	8/11/20		7.23	22.8	668	156
BMO-2008-5M	909552	2/2/21		7.17	22.6	672	164
BMO-2008-5M	909552	7/12/21		7.41	22.9	676	171
BMO-2008-5M	909552	1/31/22		7.13	22.8	699	184
BMO-2008-5M	909552	7/11/22		7.23	22.8	693	178
BMO-2008-5M	909552	2/27/23		7.12	22.3	702	173
BMO-2008-5M	909552	7/31/23		7.26	22.5	789	178
BMO-2008-5M	909552	3/13/24		7.32	22.3	716	188
BMO-2008-5M	909552	7/15/24		7.20	22.5	921	179
BMO-2008-6B	909146	7/16/08		7.36	24.1	475	53.3
BMO-2008-6B	909146	11/4/08		7.41	21.5	398	60.3
BMO-2008-6B	909146	2/19/09		7.23	21.1	444	54.3
BMO-2008-6B	909146	4/27/09		7.55	21.7	389	52.7
BMO-2008-6B	909146	8/4/09		7.48	23.4	470	48.5
BMO-2008-6B	909146	10/26/09		7.29	22.5	448	48.7
BMO-2008-6B	909146	2/15/10		7.53	21.2	391	33.5
BMO-2008-6B	909146	4/15/10		7.47	21.0	362	37.0
BMO-2008-6B	909146	7/1/10		7.24	22.2	361	40.1
BMO-2008-6B	909146	10/5/10		7.05	21.0	407	37.2
BMO-2008-6B	909146	2/14/11		7.27	21.8	397	40.2
BMO-2008-6B	909146	5/12/11		7.32	21.5	380	35.0
BMO-2008-6B	909146	7/12/11		7.27	21.1	390	37.8
BMO-2008-6B	909146	12/7/11		7.28	20.8	330	21.8
BMO-2008-6B	909146	2/3/12		7.28	20.1	346	23.0
BMO-2008-6B	909146	4/18/12		7.25	21.4	336	19.7
BMO-2008-6B	909146	7/10/12		6.86	21.2	328	21.9
BMO-2008-6B	909146	10/16/12		6.79	21.5	342	19.9
BMO-2008-6B	909146	2/12/13		6.87	20.7	339	16.2

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-6B	909146	5/15/13		6.87	21.2	297	12.7
BMO-2008-6B	909146	8/20/13		7.36	21.5	310	10.6
BMO-2008-6B	909146	11/1/13		7.04	21.0	340	13.9
BMO-2008-6B	909146	2/11/14		7.38	21.6	290	20.1
BMO-2008-6B	909146	5/7/14		7.48	21.1	297	13.6
BMO-2008-6B	909146	8/19/14		7.08	21.6	298	13.4
BMO-2008-6B	909146	11/13/14		7.23	21.6	305	14.9
BMO-2008-6B	909146	2/3/15		7.24	20.6	272	12.1
BMO-2008-6B	909146	9/8/15		7.26	22.2	282	11.8
BMO-2008-6B	909146	3/14/16		7.47	21.9	267	12.4
BMO-2008-6B	909146	9/14/16		7.46	21.8	301	12.6
BMO-2008-6B	909146	3/1/17		7.37	21.4	271	12.1
BMO-2008-6B	909146	7/10/17		7.52	22.1	291	11.7
BMO-2008-6B	909146	2/8/18		7.26	20.9	284	13.3
BMO-2008-6B	909146	7/10/18		7.78	22.2	296	18.2
BMO-2008-6B	909146	2/4/19		7.38	21.6	280	10.7
BMO-2008-6B	909146	8/6/19		7.64	22.1	237	8.00
BMO-2008-6B	909146	2/3/20		7.25	21.3	264	8.60
BMO-2008-6B	909146	7/22/20		7.12	21.9	258	6.88
BMO-2008-6B	909146	2/2/21		7.39	21.6	264	<15.0
BMO-2008-6B	909146	7/12/21		7.22	22.0	282	7.55
BMO-2008-6B	909146	1/31/22		7.11	21.8	292	8.90
BMO-2008-6B	909146	7/11/22		7.09	22.2	290	10.20
BMO-2008-6B	909146	2/27/23		7.08	22.1	278	7.05
BMO-2008-6B	909146	7/31/23		7.54	21.5	312	6.51
BMO-2008-6B	909146	3/13/24		7.26	20.9	293	7.39
BMO-2008-6B	909146	7/15/24		7.24	22.0	362	5.63
BMO-2008-6M	909019	7/10/08		M	22.1	702	182
BMO-2008-6M	909019	11/4/08		7.33	21.8	621	199
BMO-2008-6M	909019	2/20/09		7.11	22.0	702	193
BMO-2008-6M	909019	4/28/09		7.34	22.4	595	119
BMO-2008-6M	909019	8/4/09		7.40	23.3	750	189
BMO-2008-6M	909019	10/26/09		7.18	22.4	727	187
BMO-2008-6M	909019	2/15/10		7.29	20.8	733	193
BMO-2008-6M	909019	4/15/10		7.36	20.2	619	208
BMO-2008-6M	909019	7/1/10		7.15	22.0	571	198
BMO-2008-6M	909019	10/5/10		6.87	21.3	720	202
BMO-2008-6M	909019	2/14/11		6.80	21.3	731	202
BMO-2008-6M	909019	5/12/11		7.12	21.9	709	189
BMO-2008-6M	909019	7/12/11		7.06	21.8	709	194
BMO-2008-6M	909019	12/7/11		6.94	21.3	710	200
BMO-2008-6M	909019	2/3/12		7.03	21.2	720	206
BMO-2008-6M	909019	4/18/12		7.01	21.4	701	188
BMO-2008-6M	909019	7/10/12		6.67	21.4	702	208
BMO-2008-6M	909019	10/16/12		6.89	21.8	708	207
BMO-2008-6M	909019	2/12/13		6.71	20.5	740	204
BMO-2008-6M	909019	5/8/13		7.01	21.9	726	212
BMO-2008-6M	909019	8/20/13		6.99	21.7	772	213
BMO-2008-6M	909019	11/1/13		6.83	21.5	773	223
BMO-2008-6M	909019	2/11/14		6.81	21.8	786	217
BMO-2008-6M	909019	5/7/14		6.77	21.3	788	220
BMO-2008-6M	909019	8/19/14		6.9	21.9	774	210

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-6M	909019	11/13/14		7.14	22.0	740	218
BMO-2008-6M	909019	2/3/15		7.20	21.9	741	216
BMO-2008-6M	909019	9/8/15		7.09	23.0	750	222
BMO-2008-6M	909019	3/14/16		7.16	22.1	768	229
BMO-2008-6M	909019	9/14/16		7.06	22.2	760	229
BMO-2008-6M	909019	3/1/17		6.92	21.9	745	237
BMO-2008-6M	909019	7/10/17		7.04	22.6	742	218
BMO-2008-6M	909019	2/8/18		7.3	21.8	775	244
BMO-2008-6M	909019	7/10/18		7.26	22.1	761	234
BMO-2008-6M	909019	2/4/19		7.35	22.0	753	209
BMO-2008-6M	909019	8/6/19		7.18	22.4	755	199
BMO-2008-6M	909019	2/3/20		7.25	21.8	751	216
BMO-2008-6M	909019	7/22/20		7.22	22.1	752	206
BMO-2008-6M	909019	2/2/21		7.16	22.0	740	199
BMO-2008-6M	909019	7/12/21		7.16	22.2	740	204
BMO-2008-6M	909019	1/31/22		7.05	22.5	748	208
BMO-2008-6M	909019	7/11/22		7.09	22.5	754	207
BMO-2008-6M	909019	2/27/23		7.10	22.2	741	196
BMO-2008-6M	909019	7/31/23		7.33	22.0	828	196
BMO-2008-6M	909019	3/13/24		7.34	21.7	720	196
BMO-2008-6M	909019	7/15/24		7.27	22.1	932	184
BMO-2008-7M	908794	7/14/08		7.63	25.2	500	31.4
BMO-2008-7M	908794	11/6/08		7.53	22.6	380	34.5
BMO-2008-7M	908794	2/18/09		7.31	23.3	452	27.6
BMO-2008-7M	908794	5/11/09		7.43	24.4	426	26.0
BMO-2008-7M	908794	8/6/09		7.81	24.1	486	25.1
BMO-2008-7M	908794	10/27/09		7.53	23.0	470	26.1
BMO-2008-7M	908794	2/17/10		7.57	23.4	452	25.4
BMO-2008-7M	908794	2/17/10	DUP	7.57	23.4	452	25.0
BMO-2008-7M	908794	4/15/10		7.52	23.2	415	26.0
BMO-2008-7M	908794	7/6/10		7.28	23.5	391	22.8
BMO-2008-7M	908794	2/14/11		7.18	22.0	465	27.5
BMO-2008-7M	908794	2/14/11	DUP	7.18	22.0	465	26.4
BMO-2008-7M	908794	7/15/11		7.1	22.8	466	26.5
BMO-2008-7M	908794	1/30/12		7.16	22.0	454	26.4
BMO-2008-7M	908794	7/11/12		7.18	22.7	455	28.1
BMO-2008-7M	908794	2/15/13		7.23	21.8	471	25.8
BMO-2008-7M	908794	8/28/13		7.15	22.9	494	27.7
BMO-2008-7M	908794	8/28/13	DUP	7.15	22.9	494	27.8
BMO-2008-7M	908794	2/13/14		7.09	22.6	494	27.8
BMO-2008-7M	908794	7/22/14		7.13	23.2	488	27.3
BMO-2008-7M	908794	9/14/15		7.51	23.4	469	30.6
BMO-2008-7M	908794	8/18/16		7.43	23.3	457	30.0
BMO-2008-7M	908794	7/10/17		7.36	23.5	464	33.1
BMO-2008-7M	908794	7/23/18		7.36	23.5	464	34.7
BMO-2008-7M	908794	8/8/19		7.77	23.6	478	35.5
BMO-2008-7M	908794	8/8/19	DUP	7.77	23.6	478	35.1
BMO-2008-7M	908794	7/23/20		7.61	23.0	483	37.2
BMO-2008-7M	908794	8/2/21		7.53	23.1	487	36.9
BMO-2008-7M	908794	7/18/22		7.41	23.3	505	40.0
BMO-2008-7M	908794	9/5/23		7.60	22.9	553	39.6
BMO-2008-7M	908794	7/29/24		7.54	22.7	684	44.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-8B	910097	12/5/08		6.47	20.1	2480	1890
BMO-2008-8B	910097	2/19/09		6.19	21.0	2958	1570
BMO-2008-8B	910097	5/5/09		6.18	21.3	2888	1370
BMO-2008-8B	910097	8/10/09		6.42	21.5	2897	1250
BMO-2008-8B	910097	11/9/09		6.33	21.8	2889	1510
BMO-2008-8B	910097	11/9/09	DUP	6.33	21.8	2889	1520
BMO-2008-8B	910097	3/3/10		6.51	20.4	3016	1320
BMO-2008-8B	910097	4/16/10		6.06	21.4	1682	1470
BMO-2008-8B	910097	7/1/10		6.10	21.4	1594	1440
BMO-2008-8B	910097	7/15/11		6.21	21.2	2940	1380
BMO-2008-8B	910097	1/30/12		6.22	21.2	2880	1480
BMO-2008-8B	910097	1/30/12	DUP	6.22	21.2	2880	1480
BMO-2008-8B	910097	7/12/12		6.41	21.1	2860	1440
BMO-2008-8B	910097	2/13/13		6.25	20.7	2830	1330
BMO-2008-8B	910097	8/12/13		6.38	21.3	2780	1420
BMO-2008-8B	910097	7/24/14		6.26	21.2	2520	1380
BMO-2008-8B	910097	7/10/17		6.69	22.2	1540	1240
BMO-2008-8B	910097	8/8/19		6.50	22.2	2640	1130
BMO-2008-8B	910097	8/2/21		6.71	23.2	2550	1130
BMO-2008-8B	910097	9/6/23		6.71	23.3	2700	1140
BMO-2008-8M	909711	12/9/08		7.16	23.4	852	197
BMO-2008-8M	909711	2/19/09		7.27	23.5	758	147
BMO-2008-8M	909711	2/19/09	DUP	7.27	23.5	758	149
BMO-2008-8M	909711	5/5/09		7.19	25.1	680	122
BMO-2008-8M	909711	8/10/09		7.49	24.8	673	107
BMO-2008-8M	909711	11/5/09		7.30	25.4	675	104
BMO-2008-8M	909711	3/3/10		7.70	24.1	641	99.5
BMO-2008-8M	909711	4/16/10		7.29	24.5	541	97.0
BMO-2008-8M	909711	7/1/10		6.99	25.0	502	94.7
BMO-2008-8M	909711	1/24/11		7.05	23.4	595	98.2
BMO-2008-8M	909711	7/15/11		6.89	22.1	590	79.9
BMO-2008-8M	909711	1/30/12		7.36	23.9	565	77.6
BMO-2008-8M	909711	7/12/12		7.15	24.2	554	73.1
BMO-2008-8M	909711	7/12/12	DUP	7.15	24.2	554	73.2
BMO-2008-8M	909711	2/14/13		7.1	24.3	565	64.9
BMO-2008-8M	909711	8/12/13		7.19	24.6	585	65.0
BMO-2008-8M	909711	2/19/14		7.07	24.3	579	63.3
BMO-2008-8M	909711	2/19/14	DUP	7.07	24.3	579	63.4
BMO-2008-8M	909711	7/24/14		7.07	24.7	569	66.8
BMO-2008-8M	909711	9/15/15		7.35	25.0	541	67.0
BMO-2008-8M	909711	9/15/16		7.52	24.6	535	63.5
BMO-2008-8M	909711	9/15/16	DUP	7.52	24.6	535	63.9
BMO-2008-8M	909711	7/10/17		7.28	24.7	542	74.1
BMO-2008-8M	909711	7/23/18		7.48	24.8	536	76.9
BMO-2008-8M	909711	7/23/18	DUP	7.48	24.8	536	74.5
BMO-2008-8M	909711	8/8/19		7.63	25.2	542	66.8
BMO-2008-8M	909711	7/23/20		7.48	24.8	547	74.3
BMO-2008-8M	909711	8/2/21		6.79	24.6	1908	795
BMO-2008-8M	909711	8/2/21	DUP	6.79	24.6	1908	797
BMO-2008-8M	909711	7/18/22		6.69	24.4	1310	1050
BMO-2008-8M	909711	9/6/23		6.70	23.6	2540	1030
BMO-2008-8M	909711	9/6/23	DUP	6.70	23.6	2540	1030

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-8M	909711	9/18/24		6.67	23.5	2240	964
BMO-2008-9M	909255	8/8/08		7.72	25.7	415	47.3
BMO-2008-9M	909255	11/5/08		7.89	21.4	444	54.4
BMO-2008-9M	909255	2/26/09		7.71	24.5	482	28.8
BMO-2008-9M	909255	5/12/09		7.76	24.8	449	51.7
BMO-2008-9M	909255	8/17/09		7.76	25.6	534	53.4
BMO-2008-9M	909255	11/3/09		7.82	24.9	552	56.9
BMO-2008-9M	909255	3/4/10		8.07	22.4	520	58.6
BMO-2008-9M	909255	4/6/10		6.74	23.8	484	60.1
BMO-2008-9M	909255	7/1/10		7.40	24.6	425	61.0
BMO-2008-9M	909255	2/10/11		6.79	24.0	520	64.2
BMO-2008-9M	909255	7/15/11		7.56	24.3	516	67.0
BMO-2008-9M	909255	2/1/12		7.54	22.4	516	67.4
BMO-2008-9M	909255	7/12/12		7.68	24.2	513	68.9
BMO-2008-9M	909255	2/13/13		7.37	23.8	531	68.2
BMO-2008-9M	909255	8/12/13		7.47	24.2	553	71.1
BMO-2008-9M	909255	2/18/14		7.26	23.8	569	74.1
BMO-2008-9M	909255	7/24/14		7.36	24.4	571	74.2
BMO-2008-9M	909255	9/14/15		7.68	24.7	550	85.6
BMO-2008-9M	909255	9/15/16		7.64	24.4	571	86.7
BMO-2008-9M	909255	7/11/17		7.57	24.5	572	92.0
BMO-2008-9M	909255	7/26/18		7.66	24.4	584	97.2
BMO-2008-9M	909255	8/12/19		7.59	24.5	584	91.7
BMO-2008-9M	909255	7/20/20		7.68	24.7	602	97.0
BMO-2008-9M	909255	8/18/21		7.66	24.9	602	105
BMO-2008-9M	909255	7/18/22		7.78	24.6	616	108
BMO-2008-9M	909255	8/14/23		7.83	24.2	675	101
BMO-2008-9M	909255	8/14/23	DUP	7.83	24.2	675	101
BMO-2008-9M	909255	7/29/24		7.70	24.4	789	102
BMO-2008-10GL	909435	8/20/08		6.22	29.5	2924	1320
BMO-2008-10GL	909435	11/5/08		6.47	25.3	2573	1290
BMO-2008-10GL	909435	2/25/09		6.34	26.8	2646	1180
BMO-2008-10GL	909435	5/12/09		6.35	26.2	2402	1120
BMO-2008-10GL	909435	8/11/09		6.52	27.3	2661	1030
BMO-2008-10GL	909435	11/2/09		6.52	26.7	2565	1100
BMO-2008-10GL	909435	3/4/10		6.76	24.1	2937	1080
BMO-2008-10GL	909435	4/8/10		6.03	25.6	1575	1260
BMO-2008-10GL	909435	7/2/10		6.16	26.3	1338	1020
BMO-2008-10GL	909435	7/13/11		6.32	24.8	1726	644
BMO-2008-10GL	909435	2/2/12		6.45	24.8	1600	624
BMO-2008-10GL	909435	7/13/12		6.71	25.7	1571	545
BMO-2008-10GL	909435	2/18/13		6.45	25.4	1530	498
BMO-2008-10GL	909435	2/18/13	DUP	6.45	25.4	1530	494
BMO-2008-10GL	909435	8/13/13		6.57	25.5	1586	520
BMO-2008-10GL	909435	8/7/14		6.56	25.8	1417	442
BMO-2008-10GL	909435	7/11/17		6.14	25.6	3790	1810
BMO-2008-10GL	909435	8/1/19		6.20	25.7	3860	1770
BMO-2008-10GL	909435	8/17/21		6.20	25.3	3870	1960
BMO-2008-10GL	909435	8/15/23		6.30	25.2	4270	1830
BMO-2008-10GU	909272	8/4/08		6.41	23.6	3660	2210
BMO-2008-10GU	909272	11/5/08		6.15	20.2	3343	1890
BMO-2008-10GU	909272	2/25/09		5.96	22.7	3426	1740

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-10GU	909272	5/6/09		5.99	23.2	3359	1710
BMO-2008-10GU	909272	8/11/09		6.28	22.5	3348	1690
BMO-2008-10GU	909272	11/2/09		6.27	21.8	3157	1730
BMO-2008-10GU	909272	3/10/10		6.67	19.1	3951	1700
BMO-2008-10GU	909272	4/7/10		5.96	20.4	3210	1510
BMO-2008-10GU	909272	7/6/10		5.90	21.8	1610	1670
BMO-2008-10GU	909272	7/13/11		6.12	22.3	3890	1670
BMO-2008-10GU	909272	2/1/12		6.09	19.2	3820	1870
BMO-2008-10GU	909272	8/19/13		6.10	21.0	3630	1780
BMO-2008-10GU	909272	8/9/17		6.06	20.4	3860	1990
BMO-2008-10GU	909272	8/9/17	DUP	6.06	20.4	3860	1960
BMO-2008-10GU	909272	8/1/19		6.11	21.3	3900	1830
BMO-2008-10GU	909272	8/17/21		6.06	20.7	3920	2080
BMO-2008-10GU	909272	8/15/23		6.17	20.3	4320	1930
BMO-2008-11G	909434	8/22/08		8.02	28.2	359	14.2
BMO-2008-11G	909434	11/12/08		7.96	24.2	257	13.9
BMO-2008-11G	909434	2/26/09		7.92	25.1	319	12.3
BMO-2008-11G	909434	4/28/09		8.14	25.5	273	11.8
BMO-2008-11G	909434	8/12/09		8.24	25.3	365	11.2
BMO-2008-11G	909434	11/9/09		8.03	25.5	339	13.9
BMO-2008-11G	909434	3/1/10		8.37	23.2	338	13.0
BMO-2008-11G	909434	4/9/10		6.88	24.5	301	13.0
BMO-2008-11G	909434	7/1/10		6.97	25.4	298	12.3
BMO-2008-11G	909434	2/10/11		6.99	24.0	327	11.7
BMO-2008-11G	909434	7/22/11		7.26	24.6	331	12.1
BMO-2008-11G	909434	7/22/11	DUP	7.26	24.6	331	12.0
BMO-2008-11G	909434	1/31/12		7.41	24.1	328	11.9
BMO-2008-11G	909434	8/14/12		7.35	24.6	337	12.3
BMO-2008-11G	909434	2/13/13		7.54	24.2	343	11.9
BMO-2008-11G	909434	8/27/13		7.48	24.9	363	12.2
BMO-2008-11G	909434	2/19/14		7.51	24.2	363	12.2
BMO-2008-11G	909434	8/14/14		7.58	24.7	360	12.4
BMO-2008-11G	909434	2/5/15		7.87	24.8	334	12.5
BMO-2008-11G	909434	9/14/15		7.78	25.3	335	12.3
BMO-2008-11G	909434	9/14/15	DUP	7.78	25.3	335	12.4
BMO-2008-11G	909434	3/15/16		7.76	24.9	334	12.2
BMO-2008-11G	909434	8/17/16		7.96	25.6	332	12.6
BMO-2008-11G	909434	3/2/17		7.59	24.8	328	12.5
BMO-2008-11G	909434	7/11/17		7.85	25.4	333	12.4
BMO-2008-11G	909434	2/12/18		7.96	24.4	341	13.1
BMO-2008-11G	909434	7/12/18		7.89	25.4	339	13.3
BMO-2008-11G	909434	1/28/19		7.99	25.2	338	12.2
BMO-2008-11G	909434	8/6/19		7.88	25.4	338	12.2
BMO-2008-11G	909434	2/4/20		7.88	24.7	341	13.3
BMO-2008-11G	909434	8/13/20		7.92	25.3	340	11.9
BMO-2008-11G	909434	8/13/20	DUP	7.92	25.3	340	8.16
BMO-2008-11G	909434	2/2/21		7.91	24.7	338	12.5
BMO-2008-11G	909434	7/22/21		7.86	25.5	341	12.6
BMO-2008-11G	909434	2/1/22		7.81	24.8	348	13.2
BMO-2008-11G	909434	2/1/22	DUP	7.81	24.8	348	13.3
BMO-2008-11G	909434	8/1/22		7.88	25.6	351	12.7
BMO-2008-11G	909434	3/6/23		7.74	25.1	346	12.6

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-11G	909434	8/10/23		7.97	25.2	392	12.6
BMO-2008-11G	909434	3/12/24		7.79	24.7	377	13.4
BMO-2008-11G	909434	7/17/24		7.89	25.1	479	12.9
BMO-2008-13B	909551	10/3/08		6.49	21.6	2180	980
BMO-2008-13B	909551	2/17/09		6.51	20.9	1941	1000
BMO-2008-13B	909551	5/6/09		6.55	22.0	1891	930
BMO-2008-13B	909551	8/5/09		6.63	21.5	2137	950
BMO-2008-13B	909551	10/28/09		6.81	19.7	2259	1010
BMO-2008-13B	909551	2/16/10		6.87	20.8	2093	997
BMO-2008-13B	909551	4/14/10		6.38	21.2	1346	974
BMO-2008-13B	909551	7/6/10		6.37	21.8	1208	972
BMO-2008-13B	909551	7/15/11		6.44	20.8	2160	1010
BMO-2008-13B	909551	2/9/12		6.68	20.3	2180	1060
BMO-2008-13B	909551	7/11/12		6.55	21.2	2190	1080
BMO-2008-13B	909551	2/27/13		6.54	20.3	2160	1090
BMO-2008-13B	909551	9/4/13		6.57	20.8	2070	1050
BMO-2008-13B	909551	8/19/14		6.63	21.2	1890	1070
BMO-2008-13B	909551	8/2/17		6.67	21.2	2130	1050
BMO-2008-13B	909551	8/20/19		6.68	21.5	2190	1050
BMO-2008-13B	909551	8/16/21		6.67	21.9	2220	1110
BMO-2008-13B	909551	9/11/23		6.88	21.2	1603	1100
BMO-2008-13M	909760	12/3/08		7.73	24.1	1463	494
BMO-2008-13M	909760	2/17/09		8.21	22.7	1340	441
BMO-2008-13M	909760	4/29/09		8.04	24.8	1126	217
BMO-2008-13M	909760	8/5/09		8.04	25.4	1392	387
BMO-2008-13M	909760	10/28/09		8.12	21.4	1347	403
BMO-2008-13M	909760	2/16/10		8.07	24.9	1297	375
BMO-2008-13M	909760	4/13/10		8.06	23.2	1130	398
BMO-2008-13M	909760	7/2/10		8.30	23.9	1027	386
BMO-2008-13M	909760	7/15/11		8.4	23.4	1331	388
BMO-2008-13M	909760	2/6/12		8.47	23.2	1300	ND
BMO-2008-13M	909760	8/13/12		8.75	24.2	1311	397
BMO-2008-13M	909760	2/15/13		8.8	22.4	1280	383
BMO-2008-13M	909760	9/6/13		8.81	23.8	1300	402
BMO-2008-13M	909760	8/20/14		8.48	23.6	1362	410
BMO-2008-13M	909760	8/15/17		8.42	24.7	1305	386
BMO-2008-13M	909760	8/20/19		8.78	23.9	1299	388
BMO-2008-13M	909760	8/16/21		8.73	24.3	1326	418
BMO-2008-13M	909760	9/11/23		8.51	23.4	1310	424
BMO-2010-1M	219957	9/9/10		7.82	24.6	727.0	150
BMO-2010-1M	219957	11/11/10		8.68	19.9	570	98
BMO-2010-1M	219957	2/11/11		8.15	20.8	589	138
BMO-2010-1M	219957	5/12/11		7.74	23.0	710	129
BMO-2010-1M	219957	8/31/11		7.74	23.2	562	154
BMO-2010-1M	219957	12/13/11		7.63	21.3	713	149
BMO-2010-1M	219957	2/8/12		7.69	22.0	605	158
BMO-2010-1M	219957	4/24/12		7.08	23.4	701	150
BMO-2010-1M	219957	7/9/12		6.37	24.3	715	161
BMO-2010-1M	219957	10/17/12		7.40	23.9	699	154
BMO-2010-1M	219957	2/13/13		7.09	22.2	712	152
BMO-2010-1M	219957	5/8/13		7.12	22.5	725	160
BMO-2010-1M	219957	8/15/13		7.39	23.5	767	156

APPENDIX C
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Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2010-1M	219957	11/4/13		7.38	22.6	774	163
BMO-2010-1M	219957	2/12/14		8.33	22.0	672	161
BMO-2010-1M	219957	6/2/14		7.55	23.3	771	165
BMO-2010-1M	219957	8/4/14		7.38	23.8	772	179
BMO-2010-1M	219957	11/12/14		7.43	23.4	733	165
BMO-2010-1M	219957	9/9/15		7.59	24.2	729	170
BMO-2010-1M	219957	8/25/16		7.93	23.3	646	169
BMO-2010-1M	219957	7/12/17		7.70	24.0	715	180
BMO-2010-1M	219957	8/7/18		7.85	23.8	751	169
BMO-2010-1M	219957	7/30/19		7.54	24.0	7.32	173
BMO-2010-1M	219957	7/20/20		7.75	24.0	771	187
BMO-2010-1M	219957	7/15/21		7.68	24.0	762	183
BMO-2010-1M	219957	7/26/22		7.65	23.9	788	200
BMO-2010-1M	219957	8/7/23		7.75	23.6	886	192
BMO-2010-1M	219957	7/11/24		7.65	23.7	1997	189
BMO-2010-2M	219958	9/15/10		6.66	22.6	2054	915
BMO-2010-2M	219958	11/11/10		6.97	20.6	1800	935
BMO-2010-2M	219958	2/10/11		6.53	20.8	2120	950
BMO-2010-2M	219958	5/13/11		6.54	21.1	2160	887
BMO-2010-2M	219958	7/14/11		6.62	21.5	2160	917
BMO-2010-2M	219958	12/13/11		6.59	20.3	2140	984
BMO-2010-2M	219958	1/30/12		6.41	21.4	2180	989
BMO-2010-2M	219958	4/18/12		6.48	21.2	2170	893
BMO-2010-2M	219958	7/9/12		6.41	21.8	2190	1030
BMO-2010-2M	219958	10/17/12		6.60	21.3	2200	998
BMO-2010-2M	219958	2/13/13		6.45	21.0	2190	962
BMO-2010-2M	219958	5/8/13		6.42	21.0	2160	996
BMO-2010-2M	219958	8/15/13		6.58	21.2	2157	978
BMO-2010-2M	219958	11/4/13		6.53	21.9	2120	998
BMO-2010-2M	219958	2/12/14		6.52	21.0	2160	1000
BMO-2010-2M	219958	5/8/14		6.46	21.0	1990	1010
BMO-2010-2M	219958	8/14/14		6.48	21.0	1940	1040
BMO-2010-2M	219958	8/14/14	DUP	6.48	21.0	1940	1030
BMO-2010-2M	219958	11/12/14		6.59	21.3	2210	939
BMO-2010-2M	219958	7/12/17		6.6	22.2	2160	967
BMO-2010-2M	219958	7/30/19		6.67	22.1	2190	894
BMO-2010-2M	219958	7/15/21		6.70	21.7	2150	927
BMO-2010-2M	219958	8/7/23		6.78	21.8	2400	888
BMO-2010-3B	219970	7/29/10		7.48	23.1	420	16.0
BMO-2010-3B	219970	11/10/10		7.43	21.2	370	14.9
BMO-2010-3B	219970	1/20/11		7.44	20.9	416.1	14.4
BMO-2010-3B	219970	4/7/11		7.38	20.1	424.6	14.9
BMO-2010-3B	219970	7/13/11		7.68	22.3	404.5	13.8
BMO-2010-3B	219970	10/13/11		7.63	23.4	411.2	15.9
BMO-2010-3B	219970	2/2/12		7.52	20.4	400.2	16.9
BMO-2010-3B	219970	2/2/12	DUP	7.52	20.4	400.2	17.1
BMO-2010-3B	219970	4/24/12		7.30	21.8	390	16.0
BMO-2010-3B	219970	7/5/12		7.51	22.4	419.1	15.7
BMO-2010-3B	219970	10/18/12		7.58	21.6	411.9	17.0
BMO-2010-3B	219970	1/16/13		7.58	20.8	420.5	17.4
BMO-2010-3B	219970	4/16/13		7.65	21.2	415.1	17.5
BMO-2010-3B	219970	7/23/13		7.67	21.8	420	19.8

APPENDIX C
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Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2010-3B	219970	10/8/13		7.72	20.9	420.3	16.8
BMO-2010-3B	219970	1/15/14		7.65	20.2	431.2	18.8
BMO-2010-3B	219970	5/13/14		7.66	21.0	421.2	18.0
BMO-2010-3B	219970	5/13/14	DUP	7.66	21.0	421.2	18.0
BMO-2010-3B	219970	7/15/14		7.63	21.8	419.1	19.0
BMO-2010-3B	219970	10/14/14		7.48	22.6	395	17.4
BMO-2010-3B	219970	10/14/14	DUP	7.48	22.6	395	18.1
BMO-2010-3B	219970	1/28/15		7.59	22.2	420	19.2
BMO-2010-3B	219970	7/22/15		7.67	21.8	420	20.7
BMO-2010-3B	219970	2/2/16		7.67	18.9	407.5	16.1
BMO-2010-3B	219970	7/12/16		7.59	21.0	424.9	16.8
BMO-2010-3B	219970	1/18/17		7.45	20.5	413.9	18.8
BMO-2010-3B	219970	7/11/17		7.40	20.7	424.6	16.5
BMO-2010-3B	219970	1/8/18		7.42	20.4	415.7	21.8
BMO-2010-3B	219970	1/8/18	DUP	7.42	20.4	415.7	21.1
BMO-2010-3B	219970	7/10/18		7.44	20.5	428.1	16.0
BMO-2010-3B	219970	1/8/19		7.42	20.2	418.6	19.5
BMO-2010-3B	219970	7/16/19		7.41	20.5	424.5	26.0
BMO-2010-3B	219970	7/16/19	DUP	7.41	20.5	424.5	25.8
BMO-2010-3B	219970	1/6/20		7.67	20.2	425.7	21.0
BMO-2010-3B	219970	8/4/20		7.45	21.4	427.1	19.3
BMO-2010-3B	219970	1/5/21		7.48	20.8	425.4	22.9
BMO-2010-3B	219970	7/13/21		7.43	20.4	433.4	20.9
BMO-2010-3B	219970	7/13/21	DUP	7.43	20.4	433.4	21.2
BMO-2010-3B	219970	1/24/22		7.48	20.0	420.8	22.0
BMO-2010-3B	219970	7/19/22		7.41	22.2	430.0	20.1
BMO-2010-3B	219970	1/31/23		7.51	20.0	428.6	23.9
BMO-2010-3B	219970	8/1/23		7.55	21.3	430.2	19.9
BMO-2010-3B	219970	8/1/23	DUP	7.55	21.3	430.2	19.9
BMO-2010-3B	219970	1/31/24		7.57	19.1	424	21.4
BMO-2010-3B	219970	8/6/24		7.57	21.4	433.8	22.0
BMO-2010-3M	219969	7/31/10		7.73	24.3	390	14.8
BMO-2010-3M	219969	11/10/10		7.66	21.8	340	12.6
BMO-2010-3M	219969	11/10/10	DUP	7.66	21.8	340	12.7
BMO-2010-3M	219969	1/20/11		7.72	22.6	380.4	11.5
BMO-2010-3M	219969	4/7/11		7.38	23.5	376.5	12.3
BMO-2010-3M	219969	8/25/11		7.17	24.3	340	10.4
BMO-2010-3M	219969	10/13/11		7.73	23.6	375.8	10.5
BMO-2010-3M	219969	2/2/12		7.68	22.0	367.1	10.6
BMO-2010-3M	219969	4/24/12		7.49	23.9	370	10.1
BMO-2010-3M	219969	7/5/12		7.66	23.7	381.8	10.3
BMO-2010-3M	219969	10/18/12		7.71	23.3	379.9	10.4
BMO-2010-3M	219969	1/16/13		7.68	22.1	383.1	10.0
BMO-2010-3M	219969	4/16/13		7.83	22.3	383.7	10.2
BMO-2010-3M	219969	4/16/13	DUP	7.83	22.3	383.7	10.2
BMO-2010-3M	219969	7/23/13		7.80	23.4	386.0	10.7
BMO-2010-3M	219969	10/8/13		7.76	22.8	384.8	9.4
BMO-2010-3M	219969	1/15/14		7.76	22.1	389.8	9.1
BMO-2010-3M	219969	5/13/14		7.75	22.9	387.1	10.4
BMO-2010-3M	219969	7/15/14		7.74	23.1	386.9	10.2
BMO-2010-3M	219969	10/14/14		7.57	24.1	367.0	10.8
BMO-2010-3M	219969	1/28/15		7.70	24.1	391	10.6

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2010-3M	219969	7/22/15		7.79	23.5	383.9	8.64
BMO-2010-3M	219969	7/22/15	DUP	7.79	23.5	383.9	9.25
BMO-2010-3M	219969	2/2/16		7.83	19.8	367.5	8.46
BMO-2010-3M	219969	7/12/16		7.75	22.7	383.3	10.1
BMO-2010-3M	219969	1/18/17		7.54	22.2	382.3	9.97
BMO-2010-3M	219969	7/11/17		7.52	22.6	384.8	8.97
BMO-2010-3M	219969	1/8/18		7.52	22.2	379.7	9.69
BMO-2010-3M	219969	7/10/18		7.55	22.1	389.2	9.17
BMO-2010-3M	219969	1/8/19		7.42	22.0	378.4	8.97
BMO-2010-3M	219969	7/16/19		7.53	22.4	385.6	8.97
BMO-2010-3M	219969	1/6/20		7.69	21.2	369.3	9.01
BMO-2010-3M	219969	1/6/20	DUP	7.69	21.2	369.3	9.07
BMO-2010-3M	219969	8/4/20		7.53	23.1	388.6	8.98
BMO-2010-3M	219969	1/5/21		7.54	22.7	384.1	9.23
BMO-2010-3M	219969	7/13/21		7.55	22.2	391.6	11.3
BMO-2010-3M	219969	7/13/21		7.55	22.2	391.6	9.50
BMO-2010-3M	219969	1/24/22		7.56	21.8	379.5	9.50
BMO-2010-3M	219969	7/19/22		7.53	25.8	391.0	9.41
BMO-2010-3M	219969	1/31/23		7.64	21.0	388.9	8.98
BMO-2010-3M	219969	8/1/23		7.68	22.8	390.5	9.87
BMO-2010-3M	219969	1/31/24		7.70	21.5	382	9.10
BMO-2010-3M	219969	1/31/24	DUP	7.70	21.5	382	9.63
BMO-2010-3M	219969	8/6/24		7.69	23.2	389.0	10.5
BMO-2012-1M	221388	11/13/12		7.55	21.3	933.7	231
BMO-2012-1M	221388	2/27/13		6.97	22.4	793	205
BMO-2012-1M	221388	5/8/13		6.77	22.9	814	197
BMO-2012-1M	221388	8/14/13		7.09	22.9	858	202
BMO-2012-1M	221388	11/1/13		6.98	22.4	850	210
BMO-2012-1M	221388	2/13/14		7.00	22.2	883	214
BMO-2012-1M	221388	5/8/14		6.90	22.9	875	207
BMO-2012-1M	221388	7/22/14		6.99	22.6	857	210
BMO-2012-1M	221388	11/13/14		7.10	22.6	839	208
BMO-2012-1M	221388	2/4/15		7.40	22.5	843	214
BMO-2012-1M	221388	9/10/15		7.29	23.3	862	216
BMO-2012-1M	221388	3/3/16		7.32	23.4	888	222
BMO-2012-1M	221388	8/17/16		7.15	23.3	928	222
BMO-2012-1M	221388	3/2/17		6.98	23.1	922	236
BMO-2012-1M	221388	3/2/17	DUP	6.98	23.1	922	228
BMO-2012-1M	221388	7/24/17		7.08	23.0	938	250
BMO-2012-1M	221388	8/21/17		7.14	22.8	944	221
BMO-2012-1M	221388	2/13/18		7.24	22.7	960	237
BMO-2012-1M	221388	7/16/18		7.33	23.4	960	236
BMO-2012-1M	221388	1/29/19		7.25	22.6	956	215
BMO-2012-1M	221388	7/31/19		7.22	23.3	959	213
BMO-2012-1M	221388	2/4/20		7.25	22.8	954	223
BMO-2012-1M	221388	7/21/20		7.22	23.1	960	217
BMO-2012-1M	221388	2/18/21		7.13	22.9	960	213
BMO-2012-1M	221388	7/14/21		7.19	23.3	964	221
BMO-2012-1M	221388	2/1/22		7.1	22.6	981	235
BMO-2012-1M	221388	7/19/22		7.14	23.5	992	235
BMO-2012-1M	221388	3/1/23		7.08	22.6	981	217
BMO-2012-1M	221388	8/2/23		7.08	23.1	1096	220

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2012-1M	221388	3/12/24		7.28	22.5	930	228
BMO-2012-1M	221388	7/10/24		7.20	22.9	1226	217
BMO-2014-1BL	917394	11/7/14		7.21	24.2	716	160
BMO-2014-1BL	917394	1/29/15		7.46	22.2	686	167
BMO-2014-1BL	917394	4/15/15		7.43	21.9	695.0	167
BMO-2014-1BL	917394	7/29/15		7.57	22.8	695.0	149
BMO-2014-1BL	917394	10/7/15		7.55	21.6	685.9	156
BMO-2014-1BL	917394	10/7/15	DUP	7.55	21.6	685.9	156
BMO-2014-1BL	917394	2/4/16		7.66	20.2	675.4	146
BMO-2014-1BL	917394	4/6/16		7.43	21.7	696.3	152
BMO-2014-1BL	917394	7/14/16		7.47	21.9	690.7	151
BMO-2014-1BL	917394	11/2/16		7.28	21.6	689.9	143
BMO-2014-1BL	917394	1/24/17		7.29	21.4	684.6	156
BMO-2014-1BL	917394	7/13/17		7.26	21.6	687.5	158
BMO-2014-1BL	917394	1/10/18		7.24	21.5	685.3	159
BMO-2014-1BL	917394	7/12/18		7.25	21.7	693.4	163
BMO-2014-1BL	917394	1/10/19		7.15	21.8	683.6	158
BMO-2014-1BL	917394	7/18/19		7.15	22.5	691.5	150
BMO-2014-1BL	917394	1/8/20		7.52	23.9	701.7	163
BMO-2014-1BL	917394	3/9/21		7.3	21.8	719.3	160
BMO-2014-1BL	917394	7/15/21		7.29	21.2	721.0	178
BMO-2014-1BL	917394	1/26/22		7.26	21.0	726.1	164
BMO-2014-1BL	917394	7/21/22		7.29	22.2	739.3	132
BMO-2014-1BL	917394	2/15/23		7.30	21.1	708.1	173
BMO-2014-1BL	917394	8/7/23		7.52	20.7	730.9	182
BMO-2014-1BL	917394	2/6/24		7.60	20.4	713	178
BMO-2014-1BL	917394	8/8/24		7.38	22.3	728.9	177
BMO-2014-1BU	917393	11/13/14		21.8	22.1	571	84
BMO-2014-1BU	917393	1/28/15		7.45	21.6	694	170
BMO-2014-1BU	917393	4/15/15		7.40	21.3	735.2	189
BMO-2014-1BU	917393	7/29/15		7.55	22.3	729.7	165
BMO-2014-1BU	917393	10/7/15		7.51	20.9	728.8	182
BMO-2014-1BU	917393	2/4/16		7.51	20.1	715.7	163
BMO-2014-1BU	917393	4/6/16		7.47	21.0	733.5	172
BMO-2014-1BU	917393	7/14/16		7.45	21.6	724.8	170
BMO-2014-1BU	917393	7/14/16	DUP	7.45	21.6	724.8	169
BMO-2014-1BU	917393	11/2/16		7.29	20.9	719.5	155
BMO-2014-1BU	917393	1/24/17		7.28	20.5	722.8	178
BMO-2014-1BU	917393	7/13/17		7.27	20.8	736.4	184
BMO-2014-1BU	917393	1/10/18		7.25	20.5	694.3	158
BMO-2014-1BU	917393	7/12/18		7.24	20.7	730.3	181
BMO-2014-1BU	917393	1/10/19		7.16	20.4	729.9	172
BMO-2014-1BU	917393	1/10/19	DUP	7.16	20.4	729.9	175
BMO-2014-1BU	917393	7/18/19		7.15	20.5	717.9	170
BMO-2014-1BU	917393	1/8/20		7.36	19.2	703.5	169
BMO-2014-1BU	917393	8/6/20		7.23	21.2	732.1	168
BMO-2014-1BU	917393	1/7/21		7.24	21.0	718.1	185
BMO-2014-1BU	917393	7/15/21		7.30	20.2	733.1	161
BMO-2014-1BU	917393	1/26/22		7.25	20.1	741.6	170
BMO-2014-1BU	917393	7/21/22		7.38	21.5	737.8	165
BMO-2014-1BU	917393	7/21/22	DUP	7.38	21.5	737.8	163
BMO-2014-1BU	917393	2/15/23		7.31	20.8	729.1	175

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2014-1BU	917393	8/7/23		7.33	21.0	777.7	192
BMO-2014-1BU	917393	2/6/24		7.47	20.2	760	196
BMO-2014-1BU	917393	8/8/24		7.22	23.8	804.5	210
BMO-2014-2BL	917452	11/20/14		7.34	22.8	804	210
BMO-2014-2BL	917452	1/29/15		7.36	20.8	1109	463
BMO-2014-2BL	917452	4/15/15		7.27	21.2	1169	463
BMO-2014-2BL	917452	7/29/15		7.34	22.5	1191	452
BMO-2014-2BL	917452	10/7/15		7.41	20.8	1180	467
BMO-2014-2BL	917452	2/4/16		7.38	19.7	1164	434
BMO-2014-2BL	917452	2/4/16	DUP	7.38	19.7	1164	428
BMO-2014-2BL	917452	4/6/16		7.43	21.2	1187	456
BMO-2014-2BL	917452	7/14/16		7.27	21.9	1182	437
BMO-2014-2BL	917452	11/2/16		7.18	20.8	1184	422
BMO-2014-2BL	917452	1/24/17		7.11	21.3	1170	453
BMO-2014-2BL	917452	9/6/17		7.08	20.7	1197	441
BMO-2014-2BL	917452	1/10/18		7.10	20.5	1167	448
BMO-2014-2BL	917452	7/12/18		7.12	20.4	1186	445
BMO-2014-2BL	917452	1/10/19		7.07	20.4	1168	470
BMO-2014-2BL	917452	7/18/19		7.01	20.4	1178	433
BMO-2014-2BL	917452	1/8/20		7.37	18.1	1147	454
BMO-2014-2BL	917452	8/6/20		7.08	21.1	1187	421
BMO-2014-2BL	917452	1/7/21		7.09	20.8	1154	481
BMO-2014-2BL	917452	7/15/21		7.15	20.3	1174	420
BMO-2014-2BL	917452	1/26/22		7.04	20.2	1161	397
BMO-2014-2BL	917452	7/21/22		7.20	21.3	1181	400
BMO-2014-2BL	917452	2/15/23		7.30	21.5	1132	422
BMO-2014-2BL	917452	8/7/23		7.34	21.2	1162	471
BMO-2014-2BL	917452	2/6/24		7.50	19.4	1152	453
BMO-2014-2BL	917452	8/8/24		7.18	23.3	1162	402
BMO-2014-2BU	917453	12/1/14		7.35	20.8	819.2	230
BMO-2014-2BU	917453	1/30/15		7.65	19.9	524	63.8
BMO-2014-2BU	917453	4/15/15		7.56	20.7	536.1	64.8
BMO-2014-2BU	917453	7/29/15		7.62	22.2	538.7	58.2
BMO-2014-2BU	917453	10/7/15		7.74	20.6	541.1	62.0
BMO-2014-2BU	917453	2/4/16		7.58	19.8	528.0	56.5
BMO-2014-2BU	917453	4/6/16		7.58	21.7	539.3	58.6
BMO-2014-2BU	917453	7/14/16		7.56	21.4	536.6	59.9
BMO-2014-2BU	917453	11/2/16		7.39	20.2	535.9	55.8
BMO-2014-2BU	917453	1/24/17		7.36	20.1	531.2	61.0
BMO-2014-2BU	917453	7/13/17		7.38	20.1	536.9	60.1
BMO-2014-2BU	917453	1/10/18		7.35	19.8	525.4	57.0
BMO-2014-2BU	917453	7/12/18		7.37	20.1	537.5	55.6
BMO-2014-2BU	917453	1/10/19		7.31	19.8	534.0	55.2
BMO-2014-2BU	917453	7/18/19		7.27	19.8	544.3	54.9
BMO-2014-2BU	917453	1/8/20		7.53	18.6	535.4	58.6
BMO-2014-2BU	917453	8/6/20		7.35	20.6	551.0	56.4
BMO-2014-2BU	917453	1/7/21		7.35	20.4	539.3	58.2
BMO-2014-2BU	917453	7/15/21		7.40	19.8	545.4	84.9
BMO-2014-2BU	917453	1/26/22		7.30	19.6	538.3	60.9
BMO-2014-2BU	917453	7/21/22		7.55	20.8	545.2	65.1
BMO-2014-2BU	917453	2/15/23		7.54	20.3	525.6	73.0
BMO-2014-2BU	917453	2/15/23	DUP	7.54	20.3	525.6	71.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2014-2BU	917453	8/7/23		7.47	20.0	548.7	76.9
BMO-2014-2BU	917453	2/6/24		7.51	18.8	542	73.9
BMO-2014-2BU	917453	8/8/24		7.48	21.6	556.8	71.2
BMO-2014-3BL	917527	2/13/15		7.34	22.4	384	7.84
BMO-2014-3BL	917527	4/15/15		7.72	21.6	402.3	8.73
BMO-2014-3BL	917527	7/29/15		7.72	23.1	413.7	7.92
BMO-2014-3BL	917527	10/7/15		7.64	21.6	415.6	8.51
BMO-2014-3BL	917527	2/4/16		7.62	20.9	409.8	8.36
BMO-2014-3BL	917527	4/6/16		7.62	21.9	424.9	8.62
BMO-2014-3BL	917527	7/14/16		7.62	22.7	419.4	8.77
BMO-2014-3BL	917527	11/2/16		7.40	21.4	423.2	7.98
BMO-2014-3BL	917527	1/25/17		7.38	21.4	406.4	8.37
BMO-2014-3BL	917527	7/13/17		7.37	21.7	423.3	8.69
BMO-2014-3BL	917527	1/12/18		7.31	21.3	402.0	8.25
BMO-2014-3BL	917527	1/12/18		7.31	21.3	402.0	8.25
BMO-2014-3BL	917527	7/12/18		7.42	21.5	423.0	7.71
BMO-2014-3BL	917527	1/10/19		7.29	21.4	412.3	7.73
BMO-2014-3BL	917527	7/18/19		7.31	21.5	413.5	7.45
BMO-2014-3BL	917527	1/9/20		7.58	20.0	414.7	8.31
BMO-2014-3BL	917527	8/6/20		7.33	22.3	415.1	7.59
BMO-2014-3BL	917527	1/7/21		7.33	22.0	415.3	7.63
BMO-2014-3BL	917527	7/15/21		7.36	21.3	412.6	10.0
BMO-2014-3BL	917527	1/27/22		7.12	21.0	404.8	7.83
BMO-2014-3BL	917527	8/1/22		7.64	24.3	416.4	8.80
BMO-2014-3BL	917527	2/16/23		7.57	20.1	403.6	7.54
BMO-2014-3BL	917527	8/8/23		7.45	21.2	416.0	8.73
BMO-2014-3BL	917527	1/30/24		7.64	20.2	408	8.53
BMO-2014-3BL	917527	8/12/24		7.47	21.9	422.3	9.20
BMO-2014-3BL	917527	8/12/24	DUP	7.47	21.9	422.3	9.24
BMO-2014-3BU	917494	2/24/15		7.64	18.2	471.4	8.22
BMO-2014-3BU	917494	4/15/15		7.67	20.4	469.5	8.71
BMO-2014-3BU	917494	7/29/15		7.62	21.9	471.9	7.46
BMO-2014-3BU	917494	10/7/15		7.62	20.4	467.9	7.82
BMO-2014-3BU	917494	2/4/16		7.64	19.7	466.4	7.68
BMO-2014-3BU	917494	4/6/16		7.53	20.9	473.2	8.25
BMO-2014-3BU	917494	7/14/16		7.56	21.3	465.9	8.57
BMO-2014-3BU	917494	11/2/16		7.40	20.0	471.1	7.79
BMO-2014-3BU	917494	1/25/17		7.36	20.0	458.1	8.06
BMO-2014-3BU	917494	7/13/17		7.34	20.2	472.9	8.55
BMO-2014-3BU	917494	1/12/18		7.28	20.0	457.5	8.06
BMO-2014-3BU	917494	7/12/18		7.35	20.0	470.0	7.95
BMO-2014-3BU	917494	1/10/19		7.28	19.9	470.2	7.54
BMO-2014-3BU	917494	7/18/19		7.28	20.0	474.2	7.63
BMO-2014-3BU	917494	1/9/20		7.57	17.8	471.2	8.00
BMO-2014-3BU	917494	8/6/20		7.31	20.7	478.8	7.18
BMO-2014-3BU	917494	1/7/21		7.31	20.6	478.1	7.04
BMO-2014-3BU	917494	7/15/21		7.35	19.9	477.1	9.35
BMO-2014-3BU	917494	1/27/22		7.12	19.8	466.9	7.08
BMO-2014-3BU	917494	8/1/22		7.63	21.3	481.7	8.16
BMO-2014-3BU	917494	2/16/23		7.55	19.6	464.8	6.74
BMO-2014-3BU	917494	8/8/23		7.57	21.6	477.4	8.16
BMO-2014-3BU	917494	1/30/24		7.63	19.2	468	7.77

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2014-3BU	917494	8/12/24		7.56	20.8	483.4	8.30
BMO-2014-4B	917620	3/4/15		7.68	20.3	524.0	64.7
BMO-2014-4B	917620	4/14/15		7.61	20.9	494.7	61.7
BMO-2014-4B	917620	7/23/15		7.60	21.7	493.7	57.2
BMO-2014-4B	917620	10/6/15		7.70	20.5	481.9	52.7
BMO-2014-4B	917620	2/3/16		7.74	19.8	491.1	58.2
BMO-2014-4B	917620	4/5/16		7.61	20.9	491.9	53.2
BMO-2014-4B	917620	7/13/16		7.55	21.3	478.3	48.0
BMO-2014-4B	917620	7/13/16	DUP	7.55	21.3	478.3	48.3
BMO-2014-4B	917620	11/1/16		7.58	20.6	472.7	42.5
BMO-2014-4B	917620	11/1/16	DUP	7.58	20.6	472.7	42.1
BMO-2014-4B	917620	1/23/17		7.42	20.4	493.0	63.6
BMO-2014-4B	917620	7/12/17		7.41	20.5	483.0	56.7
BMO-2014-4B	917620	1/9/18		7.39	20.3	490.9	64.7
BMO-2014-4B	917620	7/11/18		7.38	20.3	467.7	47.4
BMO-2014-4B	917620	1/9/19		7.36	20.2	490.2	62.1
BMO-2014-4B	917620	7/17/19		7.36	20.3	494.9	62.8
BMO-2014-4B	917620	1/7/20		7.66	18.1	492.5	63.9
BMO-2014-4B	917620	8/5/20		7.26	21.2	487.7	56.2
BMO-2014-4B	917620	1/6/21		7.44	20.9	484.0	54.3
BMO-2014-4B	917620	7/14/21		7.38	20.2	472.9	80.1
BMO-2014-4B	917620	1/25/22		7.42	20.0	479.1	49.8
BMO-2014-4B	917620	7/20/22		7.44	23.5	476.2	53.4
BMO-2014-4B	917620	2/2/23		7.52	20.4	493.3	67.6
BMO-2014-4B	917620	8/3/23		7.56	21.6	490.5	67.3
BMO-2014-4B	917620	2/1/24		7.83	19.7	484	53.9
BMO-2014-4B	917620	8/7/24		7.59	21.8	508.4	87.0
BMO-2014-4BL	917619	3/1/15		7.63	21.1	671.9	165
BMO-2014-4BL	917619	4/14/15		7.63	21.4	665.1	184
BMO-2014-4BL	917619	7/23/15		7.66	21.9	669.7	185
BMO-2014-4BL	917619	7/23/15	DUP	7.66	21.9	669.7	169
BMO-2014-4BL	917619	10/6/15		7.71	20.9	660.4	176
BMO-2014-4BL	917619	2/3/16		7.69	20.1	660.2	165
BMO-2014-4BL	917619	4/5/16		7.53	21.2	671.7	171
BMO-2014-4BL	917619	7/13/16		7.51	21.5	653.5	165
BMO-2014-4BL	917619	11/1/16		7.47	20.9	665.8	160
BMO-2014-4BL	917619	1/23/17		7.37	20.6	672.1	182
BMO-2014-4BL	917619	7/12/17		7.42	20.7	674.4	178
BMO-2014-4BL	917619	1/9/18		7.36	20.5	681.5	183
BMO-2014-4BL	917619	7/11/18		7.32	20.6	687.8	187
BMO-2014-4BL	917619	1/9/19		7.36	20.4	701.1	193
BMO-2014-4BL	917619	7/17/19		7.30	20.5	720.3	192
BMO-2014-4BL	917619	1/7/20		7.61	19.1	725.6	206
BMO-2014-4BL	917619	8/5/20		7.21	21.4	687.8	166
BMO-2014-4BL	917619	1/6/21		7.39	21.1	642.0	153
BMO-2014-4BL	917619	7/14/21		7.34	20.3	612.8	182
BMO-2014-4BL	917619	1/25/22		7.39	20.3	615.3	135
BMO-2014-4BL	917619	7/20/22		7.46	22.8	606.9	132
BMO-2014-4BL	917619	2/2/23		7.45	21.2	618.0	127
BMO-2014-4BL	917619	8/3/23		7.59	22.1	612.4	130
BMO-2014-4BL	917619	2/1/24		7.59	19.9	595	123
BMO-2014-4BL	917619	8/7/24		7.54	21.9	591.1	123

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2015-1B	917622	3/15/15		8.11	20.2	676.3	175
BMO-2015-1B	917622	4/14/15		7.59	20.9	680.1	187
BMO-2015-1B	917622	7/23/15		7.68	21.7	690.7	201
BMO-2015-1B	917622	10/6/15		7.66	20.6	681.9	190
BMO-2015-1B	917622	2/3/16		7.64	19.8	678.5	173
BMO-2015-1B	917622	4/5/16		7.57	20.5	691.4	181
BMO-2015-1B	917622	7/13/16		7.52	21.2	675.3	172
BMO-2015-1B	917622	11/1/16		7.44	20.4	683.6	163
BMO-2015-1B	917622	1/23/17		7.43	20.4	692.6	193
BMO-2015-1B	917622	7/12/17		7.44	20.5	697.6	190
BMO-2015-1B	917622	1/9/18		7.36	20.3	703.1	203
BMO-2015-1B	917622	7/11/18		7.39	20.3	705.9	194
BMO-2015-1B	917622	1/9/19		7.32	20.3	711.9	208
BMO-2015-1B	917622	7/17/19		7.32	20.3	726.4	203
BMO-2015-1B	917622	1/7/20		7.45	18.3	719.8	210
BMO-2015-1B	917622	8/5/20		7.34	21.0	725.0	206
BMO-2015-1B	917622	1/6/21		7.33	20.7	718.2	213
BMO-2015-1B	917622	7/14/21		7.36	20.0	728.2	192
BMO-2015-1B	917622	1/25/22		7.35	19.5	721.3	193
BMO-2015-1B	917622	7/20/22		7.56	21.3	733.7	196
BMO-2015-1B	917622	2/2/23		7.35	20.5	725.6	199
BMO-2015-1B	917622	8/3/23		7.49	21.1	706.4	194
BMO-2015-1B	917622	2/1/24		7.51	19.2	727	177
BMO-2015-1B	917622	8/7/24		7.48	21.2	741.7	195
BMO-2015-1BL	917621	3/12/15		7.70	20.8	708.2	221
BMO-2015-1BL	917621	4/14/15		7.55	20.7	733.4	239
BMO-2015-1BL	917621	7/23/15		7.62	22.3	747.3	259
BMO-2015-1BL	917621	10/6/15		7.74	20.8	747.3	232
BMO-2015-1BL	917621	2/3/16		7.71	19.2	736.1	219
BMO-2015-1BL	917621	2/3/16	DUP	7.71	19.2	736.1	215
BMO-2015-1BL	917621	4/5/16		7.58	21.0	767.1	231
BMO-2015-1BL	917621	7/13/16		7.49	21.6	763.8	231
BMO-2015-1BL	917621	11/1/16		7.41	20.6	770.0	221
BMO-2015-1BL	917621	1/23/17		7.39	20.5	769.1	249
BMO-2015-1BL	917621	7/12/17		7.37	20.6	780.5	253
BMO-2015-1BL	917621	1/9/18		7.38	20.5	784.5	251
BMO-2015-1BL	917621	7/11/18		7.35	20.5	791.5	253
BMO-2015-1BL	917621	1/9/19		7.30	20.4	800.5	259
BMO-2015-1BL	917621	7/17/19		7.29	20.4	797.7	255
BMO-2015-1BL	917621	1/7/20		7.38	19.6	787.0	261
BMO-2015-1BL	917621	8/5/20		7.31	21.2	820.1	266
BMO-2015-1BL	917621	1/6/21		7.30	21.7	818.6	277
BMO-2015-1BL	917621	3/9/21		7.35	20.8	839.6	260
BMO-2015-1BL	917621	7/14/21		7.32	20.2	840.4	268
BMO-2015-1BL	917621	1/25/22		7.26	20.0	824.8	262
BMO-2015-1BL	917621	7/20/22		7.48	21.4	845.9	255
BMO-2015-1BL	917621	2/2/23		7.48	20.4	832.9	277
BMO-2015-1BL	917621	8/3/23		7.52	21.5	825.0	274
BMO-2015-1BL	917621	2/1/24		7.61	19.3	850	252
BMO-2015-1BL	917621	8/7/24		7.42	21.2	872.6	289
BMO-2015-2B	917827	3/19/15		7.43	20.0	795.2	288
BMO-2015-2B	917827	4/14/15		7.41	20.7	832.4	271

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2015-2B	917827	7/23/15		7.47	22.2	847.5	292
BMO-2015-2B	917827	10/6/15		7.60	20.9	844.3	262
BMO-2015-2B	917827	2/3/16		7.48	20.4	823.2	247
BMO-2015-2B	917827	4/5/16		7.44	21.4	849.8	258
BMO-2015-2B	917827	7/13/16		7.33	21.8	837.2	250
BMO-2015-2B	917827	11/1/16		7.26	20.6	848.1	247
BMO-2015-2B	917827	1/23/17		7.26	20.5	849.6	268
BMO-2015-2B	917827	7/12/17		7.27	20.4	847.9	273
BMO-2015-2B	917827	1/9/18		7.25	20.2	841.9	276
BMO-2015-2B	917827	7/11/18		7.17	20.4	856.9	261
BMO-2015-2B	917827	1/9/19		7.19	20.1	873.3	277
BMO-2015-2B	917827	7/17/19		7.16	20.3	875.0	270
BMO-2015-2B	917827	1/7/20		7.45	17.4	864.6	277
BMO-2015-2B	917827	8/5/20		7.22	21.1	884.1	299
BMO-2015-2B	917827	1/6/21		7.18	20.7	877.4	289
BMO-2015-2B	917827	7/14/21		7.15	20.1	895.6	270
BMO-2015-2B	917827	1/25/22		7.18	19.9	898.3	266
BMO-2015-2B	917827	1/25/22	DUP	7.18	19.9	898.3	273
BMO-2015-2B	917827	7/20/22		7.33	21.0	916.2	274
BMO-2015-2B	917827	2/2/23		7.35	19.9	889.2	282
BMO-2015-2B	917827	8/3/23		7.42	20.3	901.5	288
BMO-2015-2B	917827	1/23/24		7.49	19.1	923	280
BMO-2015-2B	917827	8/5/24		7.31	21.6	923.1	292
BMO-2015-2B	917827	8/5/24	DUP	7.31	21.6	923.1	289
BMO-2015-2BL	917828	3/26/15		7.29	22.3	887.1	280
BMO-2015-2BL	917828	4/14/15		7.38	20.9	860.0	305
BMO-2015-2BL	917828	7/23/15		7.43	22.1	902.3	323
BMO-2015-2BL	917828	10/6/15		7.54	21.2	890.3	304
BMO-2015-2BL	917828	2/3/16		7.45	20.5	884.7	278
BMO-2015-2BL	917828	4/5/16		7.42	21.3	903.9	296
BMO-2015-2BL	917828	4/5/16	DUP	7.42	21.3	903.9	292
BMO-2015-2BL	917828	7/13/16		7.33	21.8	903.7	296
BMO-2015-2BL	917828	11/1/16		7.24	20.8	905.7	282
BMO-2015-2BL	917828	1/23/17		7.25	20.6	909.8	315
BMO-2015-2BL	917828	7/12/17		7.23	20.7	921.0	317
BMO-2015-2BL	917828	1/9/18		7.19	20.5	915.5	320
BMO-2015-2BL	917828	7/11/18		7.14	20.5	923.8	307
BMO-2015-2BL	917828	1/9/19		7.15	20.3	924.6	320
BMO-2015-2BL	917828	7/17/19		7.11	20.5	942.6	318
BMO-2015-2BL	917828	1/7/20		7.14	17.1	918.0	323
BMO-2015-2BL	917828	8/5/20		7.13	21.2	946.2	327
BMO-2015-2BL	917828	8/5/20	DUP	7.13	21.2	946.2	333
BMO-2015-2BL	917828	1/6/21		7.13	20.9	941.5	336
BMO-2015-2BL	917828	7/14/21		7.11	20.3	957.5	307
BMO-2015-2BL	917828	1/25/22		7.11	20.1	944.2	309
BMO-2015-2BL	917828	7/20/22		7.30	21.8	980.3	311
BMO-2015-2BL	917828	2/2/23		7.27	19.9	965.9	337
BMO-2015-2BL	917828	2/2/23	DUP	7.27	19.9	965.9	342
BMO-2015-2BL	917828	8/3/23		7.30	20.8	961.8	328
BMO-2015-2BL	917828	1/23/24		7.45	19.2	992	322
BMO-2015-2BL	917828	8/5/24		7.27	22.0	981.8	335
BOOTH	914931	1/5/13		7.67	18.5	574.3	91.4

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BOOTH	914931	6/14/13		7.61	51.1	604.2	95
BOOTH	914931	6/14/13	DUP	7.61	51.1	604.2	92.5
BOOTH	914931	7/17/13		7.75	23.2	497.6	75
BOOTH	914931	10/18/13		7.66	19.3	597.6	92.6
BOOTH	914931	8/2/23		7.70	21.9	662.8	150
BOOTH	914931	1/26/24		7.53	16.9	688	156
BURKE	212268	2/7/08		7.17	23.0	411	29.5
BURKE	212268	4/22/08		7.13	27.0	423	26
BURKE	212268	8/5/08		7.06	26.8	496	21.9
BURKE	212268	10/20/08		7.57	26.0	466	20.5
BURKE	212268	2/11/09		7.23	25.0	363	23.9
BURKE	212268	4/28/09		7.16	26.1	369	24.2
BURKE	212268	8/19/09		7.36	26.7	486	22.5
BURKE	212268	12/16/09		7.28	25.7	488	26
BURKE	212268	3/2/10		7.56	12.3	432	23.8
BURKE	212268	4/22/10		7.49	16.4	452	24.8
BURKE	212268	7/21/10		7.56	25.6	423.7	33.1
BURKE	212268	10/10/13		7.87	21.9	469.6	27.5
BURKE	212268	1/8/14		8.17	10.9	464.9	28.6
BURKE	212268	4/16/14		7.80	21.1	471.0	28.3
BURKE	212268	7/21/14		8.19	27.8	448.8	29.6
BURKE	212268	10/21/14		8.06	22.2	456.0	29.1
BURKE	212268	8/3/15		7.72	27.4	479.3	27.2
BURKE	212268	7/21/16		7.98	26.4	478.0	28.6
BURKE	212268	7/21/16	DUP	7.98	26.4	478.0	28.5
BURKE	212268	7/25/17		7.91	23.5	475.3	31.7
BURKE	212268	7/26/18		7.51	27.4	480.8	30.5
BURKE	212268	7/9/19		7.48	26.2	487.1	30.8
BURKE	212268	8/11/20		7.57	28.0	491.2	34.3
BURKE	212268	7/29/21		7.77	23.8	483.3	31.5
BURKE	212268	7/7/22		7.77	27.1	478.5	30.6
BURKE	212268	7/19/23		7.83	27.9	486.5	32.9
BURKE	212268	7/31/24		7.85	26.0	479.7	29.3
CHAMBERS	629807	3/6/08		7.73	17.8	408	7.7
CHAMBERS	629807	5/5/08		7.15	22.1	421	6
CHAMBERS	629807	7/14/08		7.43	23.2	434	5.8
CHAMBERS	629807	10/15/08		7.41	22.5	420	4
CHAMBERS	629807	1/27/09		7.57	21.5	312	5.3
CHAMBERS	629807	4/14/09		7.42	22.4	384	6.8
CHAMBERS	629807	7/15/09		7.83	23.4	414	4.3
CHAMBERS	629807	10/13/09		7.41	22.6	410	6.5
CHAMBERS	629807	1/26/10		7.31	21.3	416	5.7
CHAMBERS	629807	4/23/10		7.47	20.9	427.5	8.34
CHAMBERS	629807	7/21/10		7.49	23.1	430	7.75
CHAMBERS	629807	10/19/10		8.00	23.0	440	7.04
CHAMBERS	629807	1/18/11		7.47	22.4	390	7.30
CHAMBERS	629807	4/11/11		7.18	22.0	427.3	7.74
CHAMBERS	629807	7/18/11		7.18	23.8	420.2	8.18
CHAMBERS	629807	10/12/11		7.33	22.6	425.8	7.8
CHAMBERS	629807	2/6/12		7.43	21.8	434.6	9.08
CHAMBERS	629807	4/23/12		7.46	22.7	460	8.84
CHAMBERS	629807	7/17/12		7.31	22.4	410	8.41

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
CHAMBERS	629807	10/8/12		7.44	22.4	430.0	10.1
CHAMBERS	629807	1/10/13		7.57	21.5	440.8	9.64
CHAMBERS	629807	4/18/13		7.49	21.7	434.1	9.78
CHAMBERS	629807	7/15/13		7.40	22.7	434.6	9.81
CHAMBERS	629807	7/15/13	DUP	7.40	22.7	434.6	10.2
CHAMBERS	629807	10/10/13		7.51	21.8	439.7	10.3
CHAMBERS	629807	1/13/14		7.56	21.0	431.3	10.7
CHAMBERS	629807	4/14/14		7.48	22.2	435.9	10.9
CHAMBERS	629807	7/10/14		7.50	22.9	436.4	11.0
CHAMBERS	629807	10/17/14		7.31	22.5	456.0	10.8
CHAMBERS	629807	7/21/15		7.48	22.7	447.7	11.4
CHAMBERS	629807	7/14/16		7.49	22.8	459.8	13.2
CHAMBERS	629807	7/25/17		7.34	21.3	450.4	13.2
CHAMBERS	629807	7/10/19		7.27	28.0	417.7	6.88
COB MW-1	903992	2/22/08		6.93	21.2	1401	720
COB MW-1	903992	5/20/08		6.88	22.0	2050	980
COB MW-1	903992	7/30/08		6.88	21.7	1780	730
COB MW-1	903992	10/23/08		6.95	21.2	1690	750
COB MW-1	903992	2/12/09		6.92	21.1	1313	750
COB MW-1	903992	4/21/09		7.15	22.7	1366	720
COB MW-1	903992	7/22/09		6.94	21.6	1570	680
COB MW-1	903992	7/22/09	DUP	6.94	21.6	1570	730
COB MW-1	903992	10/22/09		6.81	22.3	1582	820
COB MW-1	903992	2/4/10		7.04	21.1	1653	680
COB MW-1	903992	4/20/10		6.92	21.8	1836	783
COB MW-1	903992	7/13/10		7.02	22.3	2004	919
COB MW-1	903992	7/14/11		6.78	21.4	1924	927
COB MW-1	903992	7/12/12		6.74	23.4	1760	805
COB MW-1	903992	2/5/13		6.95	21.5	1773	877
COB MW-1	903992	7/11/13		7.17	21.4	1858	842
COB MW-1	903992	7/9/14		6.95	21.5	2000	1000
COB MW-1	903992	7/9/14	DUP	6.95	21.5	2000	1020
COB MW-1	903992	7/27/15		6.96	21.6	1993	902
COB MW-1B	225906	7/20/16		6.63	21.8	2405	1210
COB MW-1B	225906	7/19/17		6.51	20.9	2474	1160
COB MW-1B	225906	7/24/19		6.70	20.6	1793	827
COB MW-1B	225906	7/21/21		6.75	20.8	1790	918
COB MW-1B	225906	7/21/21	DUP	6.75	20.8	1790	844
COB MW-1B	225906	8/3/22		6.96	22.3	1808	804
COB MW-1B	225906	8/2/23		6.82	21.8	1851	1050
COB MW-2	903984	5/20/08		7.32	21.2	490	40.5
COB MW-2	903984	7/30/08		7.34	20.8	511	37.6
COB MW-2	903984	10/23/08		7.36	20.3	498	34.9
COB MW-2	903984	2/12/09		7.35	20.2	379	35.6
COB MW-2	903984	4/23/09		7.33	21.8	431	34
COB MW-2	903984	7/22/09		7.36	21.3	483	33.5
COB MW-2	903984	10/22/09		7.24	21.0	454	32.2
COB MW-2	903984	3/3/10		7.55	19.7	450	33.5
COB MW-2	903984	4/26/10		7.28	21.3	479.6	34.8
COB MW-2	903984	7/13/10		6.91	21.2	479.5	30.4
COB MW-2	903984	7/13/10	DUP	6.91	21.2	479.5	30.6
COB MW-2	903984	1/20/11		7.47	20.7	440	29.6

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COB MW-2	903984	7/14/11		7.11	21.1	472.6	29.8
COB MW-2	903984	1/31/12		7.53	20.3	466.6	30.0
COB MW-2	903984	7/12/12		7.36	21.2	630	29.2
COB MW-2	903984	1/9/13		7.48	20.0	473.5	35.8
COB MW-2	903984	7/25/13		7.34	20.9	485.4	40.6
COB MW-2	903984	1/6/14		7.58	19.9	487.8	40.5
COB MW-2	903984	7/9/14		7.52	20.5	503.5	43.7
COB MW-2	903984	2/4/15		7.38	20.3	619	40.5
COB MW-2	903984	7/27/15		7.57	20.8	514.6	40.3
COB MW-2	903984	7/27/15	DUP	7.57	20.8	514.6	41.6
COB MW-2	903984	1/11/16		7.54	19.5	510.6	41.2
COB MW-2	903984	7/20/16		7.52	20.0	523.7	41.6
COB MW-2	903984	1/19/17		7.40	19.5	525.8	41.5
COB MW-2	903984	7/19/17		7.29	19.5	548.6	39.6
COB MW-2	903984	1/11/18		7.26	19.3	552.3	36.1
COB MW-2	903984	7/17/18		7.28	19.4	572.5	32.6
COB MW-2	903984	1/15/19		7.26	19.2	578.3	26.0
COB MW-2	903984	7/24/19		7.19	19.2	598.4	24.6
COB MW-2	903984	1/14/20		7.53	18.7	578.3	24.8
COB MW-2	903984	8/11/20		7.25	19.9	600.6	23.2
COB MW-2	903984	1/12/21		7.21	19.7	591.2	23.6
COB MW-2	903984	7/21/21		7.15	19.3	599.7	26.4
COB MW-2	903984	2/8/22		7.34	19.1	610.6	21.6
COB MW-2	903984	8/3/22		7.42	20.2	618.0	23.5
COB MW-2	903984	2/1/23		7.44	18.8	630.7	23.4
COB MW-2	903984	8/2/23		7.33	20.2	633.2	23.5
COB MW-2	903984	2/14/24		7.42	18.6	600	24.5
COB MW-2	903984	8/14/24		7.22	19.9	585.4	25.9
COB MW-3	906823	2/28/08		7.39	21.0	416	57.8
COB MW-3	906823	3/27/08		ND	ND	ND	57.7
COB MW-3	906823	4/30/08		ND	ND	ND	37
COB MW-3	906823	5/20/08		7.56	22.3	473	35.8
COB MW-3	906823	7/24/08		ND	ND	ND	64.9
COB MW-3	906823	7/30/08		7.64	22.3	541	67.3
COB MW-3	906823	10/9/08		ND	ND	ND	52.5
COB MW-3	906823	10/23/08		7.43	20.8	507	76.6
COB MW-3	906823	2/12/09		7.35	21.1	432	112
COB MW-3	906823	4/23/09		7.35	22.6	407	43.7
COB MW-3	906823	7/22/09		7.38	21.5	460	52.3
COB MW-3	906823	10/22/09		7.40	21.3	466	74.2
COB MW-3	906823	10/22/09	DUP	7.40	21.3	466	73.9
COB MW-3	906823	3/3/10		7.36	21.1	480	102
COB MW-3	906823	4/26/10		7.35	22.0	497.9	77.6
COB MW-3	906823	7/13/10		7.41	21.7	456.7	46.5
COB MW-3	906823	7/14/11		7.19	21.8	440.0	40.1
COB MW-3	906823	7/12/12		7.34	21.4	450	39.5
COB MW-3	906823	2/5/13		7.60	20.4	476.4	65.1
COB MW-3	906823	2/5/13	DUP	7.60	20.4	476.4	64.7
COB MW-3	906823	7/25/13		7.42	21.4	485.0	66.6
COB MW-3	906823	7/9/14		7.61	21.4	525.3	90.9
COB MW-3	906823	7/27/15		7.56	21.6	560.3	105
COB MW-3	906823	7/20/16		7.48	20.4	507.4	72.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COB MW-3	906823	7/19/17		7.34	20.2	529.5	84.1
COB MW-3	906823	7/17/18		7.37	20.0	528.5	92.7
COB MW-3	906823	7/24/19		7.38	19.7	498.8	68.5
COB MW-3	906823	8/11/20		7.48	20.4	485.8	59.0
COB MW-3	906823	7/21/21		7.33	19.7	534.5	95.8
COB MW-3	906823	8/3/22		7.50	20.8	555.4	91.3
COB MW-3	906823	8/3/23		7.55	19.8	495.5	61.8
COB MW-3	906832	8/14/24		7.45	20.3	455.2	58.0
COB MW-3	906832	8/14/24	DUP	7.45	20.3	455.2	57.9
COB WL	593116	2/22/08		6.99	20.6	919	90
COB WL	593116	3/24/08		ND	ND	ND	98.2
COB WL	593116	4/28/08		ND	ND	ND	98.7
COB WL	593116	5/20/08		7.30	21.9	1053	98
COB WL	593116	7/30/08		7.17	22.0	1098	97.1
COB WL	593116	7/30/08		ND	ND	ND	100
COB WL	593116	10/15/08		ND	ND	ND	107
COB WL	593116	10/23/08		7.23	21.4	1075	104
COB WL	593116	2/12/09		6.98	20.6	814	94
COB WL	593116	4/23/09		7.29	22.2	923	98
COB WL	593116	7/22/09		7.17	22.5	1037	97.3
COB WL	593116	10/22/09		7.17	22.4	988	96.1
COB WL	593116	3/3/10		7.48	21.1	1030	97.1
COB WL	593116	4/26/10		7.36	21.9	1038	97.7
COB WL	593116	4/26/10	DUP	7.36	21.9	1038	97.9
COB WL	593116	7/13/10		7.18	22.3	1013	88.7
COB WL	593116	7/14/11		6.91	21.6	1019	87.3
COB WL	593116	7/12/12		7.07	23.2	1060	92.0
COB WL	593116	2/5/13		7.91	21.5	1057	98.3
COB WL	593116	7/25/13		7.23	22.7	1074	97.6
COB WL	593116	7/9/14		7.42	21.8	1132	81.5
COB WL	593116	2/4/15		6.90	23.3	1488	73.7
COB WL	593116	7/27/15		7.25	22.9	1221	69.6
COB WL	593116	1/11/16		7.25	20.4	1195	73.5
COB WL	593116	7/20/16		7.12	22.5	1184	74.4
COB WL	593116	1/25/17		7.07	21.5	1167	79.8
COB WL	593116	7/14/17		7.07	21.9	1162	80.4
COB WL	593116	1/11/18		7.07	21.7	1169	77.3
COB WL	593116	7/9/18		7.21	21.8	1165	73.0
COB WL	593116	7/9/18	DUP	7.21	21.8	1165	74.5
COB WL	593116	1/7/19		6.97	21.5	1163	73.1
COB WL	593116	1/7/19	DUP	6.97	21.5	1163	74.0
COB WL	593116	7/15/19		7.10	22.2	1154	71.2
COB WL	593116	1/7/20		7.21	20.5	1122	76.1
COB WL	593116	8/4/20		7.06	23.4	1108	84.8
COB WL	593116	1/6/21		7.09	22.8	1102	77.0
COB WL	593116	7/12/21		7.13	22.7	1082	89.9
COB WL	593116	8/3/22		7.02	21.7	1068	72.8
COB WL	593116	2/1/23		7.11	20.1	1048	78.3
COB WL	593116	8/10/23		7.00	20.2	1027	71.6
COB WL	593116	8/10/23	DUP	7.00	20.2	1027	72.1
COB WL	593116	2/14/24		7.39	19.3	1017	69.9
COB WL	593116	8/14/24		6.99	20.7	1036	73.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COLLINS	565260	2/12/08		6.88	21.6	1470	520
COLLINS	565260	5/29/08		7.01	22.0	1459	520
COLLINS	565260	7/31/08		6.86	21.6	1502	536
COLLINS	565260	10/20/08		8.44	24.7	1510	518
COLLINS	565260	2/11/09		6.68	21.4	1147	567
COLLINS	565260	4/21/09		6.92	22.5	1150	499
COLLINS	565260	7/22/09		7.00	22.4	1413	460
COLLINS	565260	10/20/09		6.60	21.9	1432	513
COLLINS	565260	2/2/10		6.98	21.2	1439	471
COLLINS	565260	4/23/10		6.99	20.6	1472	561
COLLINS	565260	7/20/10		6.69	25.0	1420	569
COLLINS	565260	7/17/13		6.97	21.6	1409	519
COOPER	623564	2/14/08		7.02	20.8	371	33
COOPER	623564	5/14/08		8.08	22.1	419	34.2
COOPER	623564	7/31/08		7.81	28.4	455	33.7
COOPER	623564	10/20/08		8.44	24.7	448	31.2
COOPER	623564	2/11/09		7.32	19.2	333	34.3
COOPER	623564	4/21/09		8.19	24.9	346	33.4
COOPER	623564	7/20/09		8.45	29.8	430	32.3
COOPER	623564	10/14/09		7.85	24.6	423	33.6
COOPER	623564	2/1/10		7.83	13.6	433	32.4
COOPER	623564	4/22/10		7.82	17.9	433	34.5
COOPER	623564	7/19/10		7.98	29.3	420	35.0
COOPER	623564	10/18/10		7.12	73.1	450	33.1
COOPER	623564	1/19/11		8.83	18.4	410	32.1
COOPER	623564	4/11/11		7.65	21.0	442.6	34.3
COOPER	623564	7/11/11		7.45	24.2	426.5	32.1
COOPER	623564	11/22/11		7.86	20.6	426.1	33.7
COOPER	623564	2/1/12		7.97	21.8	429.2	34.1
COOPER	623564	4/10/12		7.41	22.4	426.8	32.5
COOPER	623564	7/18/12		7.45	22.9	430	33.4
COOPER	623564	10/9/12		7.70	22.1	432.8	34.3
COOPER	623564	1/11/13		7.76	21.5	434.1	32.7
COOPER	623564	4/10/13		7.72	21.1	427.5	31
COOPER	623564	7/11/13		7.65	23.2	432.5	31.9
COOPER	623564	10/7/13		7.68	22.7	430.5	31.4
COOPER	623564	1/16/14		7.65	21.6	431.7	30.8
COOPER	623564	4/10/14		7.66	22.3	433.1	31.5
COOPER	623564	7/10/14		7.68	22.4	428.8	32.2
COOPER	623564	10/8/14		7.37	23.5	408	31.1
COOPER	623564	1/27/15		7.67	20.5	411	29.8
COOPER	623564	8/3/15		7.67	22.7	421.3	27.1
COOPER	623564	3/31/16		7.52	22.4	410	28.8
COOPER	623564	7/25/16		7.62	22.4	420.2	27.3
COOPER	623564	1/25/17		7.56	20.8	412.8	26.2
COOPER	623564	7/17/17		7.48	21.6	417.1	35.6
COOPER	623564	1/16/18		7.45	20.8	402.8	26.1
COOPER	623564	7/16/18		7.45	21.8	415.8	25.5
COOPER	623564	1/16/19		7.45	20.5	412.0	23.7
COOPER	623564	7/8/19		7.50	22.3	417.1	23.4
COOPER	623564	1/21/20		7.08	21.2	418.9	20.9
COOPER	623564	1/21/20	DUP	7.08	21.2	418.9	21.2

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COOPER 988	232988	7/16/21		7.97	24.1	414.0	18.5
COOPER 988	232988	7/16/21	DUP	7.97	24.1	414.0	18.5
COOPER 988	232988	1/28/22		7.79	14.9	397.5	16.3
COOPER 988	232988	7/8/22		8.03	28.1	417.2	17.1
COOPER 988	232988	7/8/22	DUP	8.03	28.1	417.2	17.1
COOPER 988	232988	1/24/23		8.06	12.9	401.6	17.6
COOPER 988	232988	7/19/23		8.07	28.6	406.9	17.3
COOPER 988	232988	1/22/24		8.23	13.3	400	17.7
COOPER 988	232988	8/5/24		8.27	27.9	415.6	17.8
COOPER C	637069	3/20/08		6.93	21.3	2081	880
COOPER C	637069	5/5/08		6.78	22.4	2139	990
COOPER C	637069	7/15/08		6.86	22.3	2162	1040
COOPER C	637069	7/15/08	DUP	6.86	22.3	2162	960
COOPER C	637069	10/16/08		6.80	21.4	2078	1020
COOPER C	637069	1/27/09		6.92	20.5	1489	950
COOPER C	637069	4/14/09		6.85	21.6	1833	930
COOPER C	637069	7/14/09		6.75	22.1	1972	910
COOPER C	637069	10/12/09		6.70	21.8	1858	830
COOPER C	637069	1/27/10		7.27	19.6	1930	620
COOPER C	637069	4/22/10		6.76	19.5	1921	884
COOPER C	637069	7/21/10		6.84	22.9	1761	921
COOPER C	637069	10/20/10		7.16	20.9	1980	829
COOPER C	637069	1/17/11		6.95	20.5	1880	756
COOPER C	637069	4/11/11		6.82	21.0	1942	834
COOPER C	637069	8/26/11		6.84	21.8	1800	847
COOPER C	637069	2/1/12		7.13	20.5	2024	867
COOPER C	637069	4/25/12		6.83	21.5	1960	817
COOPER C	637069	7/11/12		6.48	22.8	2030	834
COOPER C	637069	10/10/12		6.98	21.2	1985	863
COOPER C	637069	2/27/13		6.58	20.9	1805	821
COOPER C	637069	5/8/13		6.41	20.7	1744	798
COOPER C	637069	8/13/13		6.69	21.2	1739	756
COOPER C	637069	11/1/13		6.61	21.2	1624	738
COOPER C	637069	2/10/14		6.69	21.6	1616	715
COOPER C	637069	5/7/14		6.48	22.5	1612	686
COOPER C	637069	7/21/14		6.63	23.1	1548	671
COOPER C	637069	11/13/14		6.87	22.4	1520	638
COOPER C	637069	9/10/15		6.84	22.8	1997	641
COOPER C	637069	8/18/16		6.92	25.2	1468	647
COOPER C	637069	7/13/17		6.99	23.0	1461	639
COOPER C	637069	7/25/18		6.95	22.2	1545	661
COOPER C	637069	8/19/19		7.01	21.3	1568	623
COOPER C	637069	8/17/20		6.97	21.9	1546	599
COOPER C	637069	7/27/21		6.88	22.5	1523	657
COOPER C	637069	7/25/22		6.93	24.8	1511	674
COOPER C	637069	9/12/23		6.94	24.4	1375	725
DODSON	644927	2/20/08		7.61	17.3	857	54
DODSON	644927	5/12/08		7.11	21.1	1118	34.2
DODSON	644927	7/24/08		7.25	21.6	1233	49.3
DODSON	644927	10/13/08		7.15	20.5	1095	56.9
DODSON	644927	1/22/09		7.20	20.4	892	51.8
DODSON	644927	4/9/09		7.09	21.4	1103	50.1

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
DODSON	644927	7/8/09		7.18	21.1	1153	55.9
DODSON	644927	10/6/09		7.07	21.1	1140	49.3
DODSON	644927	1/21/10		7.15	18.9	1227	44.6
DODSON	644927	4/19/10		7.46	19.9	1261	48.8
DODSON	644927	4/19/10	DUP	7.46	19.9	1261	48.6
DODSON	644927	7/20/10		7.16	22.7	1260	47.5
DODSON	644927	10/18/10		6.43	21.2	1260	49.3
DODSON	644927	1/19/11		7.88	19.5	1120	57.9
DODSON	644927	4/5/11		7.03	20.9	1300	49.0
DODSON	644927	7/12/11		6.86	23.7	1352	52.9
DODSON	644927	10/10/11		6.79	20.9	1280	50.9
DODSON	644927	10/10/11	DUP	6.79	20.9	1280	49.6
DODSON	644927	1/31/12		7.17	20.3	1454	50.4
DODSON	644927	4/12/12		7.06	20.6	1492	45.4
DODSON	644927	7/11/12		7.10	21.5	1790	54.0
DODSON	644927	10/4/12		7.27	20.6	1626	48.7
DODSON	644927	1/18/13		7.27	20.2	1743	51.8
DODSON	644927	1/18/13	DUP	7.27	20.2	1743	51.6
DODSON	644927	4/9/13		7.33	19.6	1886	74.4
DODSON	644927	7/9/13		7.39	21.0	1825	53.6
DODSON	644927	10/9/13		7.24	20.2	1612	63.3
DODSON	644927	1/9/14		7.31	19.7	1586	61.4
DODSON	644927	4/15/14		7.24	20.7	1636	58.5
DODSON	644927	7/14/14		7.27	21.9	1651	54.4
DODSON	644927	10/16/14		7.12	21.3	1706	53.2
DODSON	644927	1/26/15		7.46	20.2	1650	59.5
DODSON	644927	1/26/15	DUP	7.46	20.2	1650	59.9
DODSON	644927	7/23/15		7.34	21.1	1716	60.8
DODSON	644927	1/12/16		7.41	18.6	1749	49.2
DODSON	644927	7/18/16		7.28	20.7	2233	49.1
DODSON	644927	1/26/17		7.06	19.8	2049	45.9
DODSON	644927	7/17/17		7.07	19.9	1920	46.1
DODSON	644927	1/17/18		7.01	19.6	1922	45.4
DODSON	644927	7/30/18		7.05	19.4	2408	39.1
DODSON	644927	1/15/19		6.49	19.5	2322	38.9
DODSON	644927	7/9/19		6.94	20.8	2362	35.3
DODSON	644927	1/15/20		7.27	19.1	2275	42.3
DODSON	644927	8/13/20		6.87	20.6	2215	45.2
DODSON	644927	1/11/21		7.07	20.2	2153	48.7
DODSON	644927	7/21/21		7.07	20.7	2101	48.4
DODSON	644927	1/28/22		7.33	18.7	2131	45.4
DODSON	644927	7/8/22		7.14	22.2	2117	63.7
DODSON	644927	1/23/23		7.23	17.9	1895	48.2
DODSON	644927	7/25/23		7.18	21.5	2026	56.4
DODSON	644927	1/17/24		7.29	19.3	1985	45.1
DODSON	644927	1/17/24	DUP	7.29	19.3	1985	69.9
DODSON	644927	7/30/24		7.12	21.0	1972	46.9
DURAZO	NR	2/10/09		7.22	18.8	848	386
DURAZO	NR	4/20/09		7.37	22.7	901	367
DURAZO	NR	7/15/09		7.57	22.8	1102	332
DURAZO	NR	10/14/09		7.17	21.9	1048	377
DURAZO	NR	2/1/10		7.30	21.1	1105	344

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
DURAZO	NR	4/26/10		7.22	23.1	1099	388
DURAZO	NR	7/20/10		7.28	23.0	1070	405
DURAZO	NR	10/19/10		7.28	21.9	1112	398
DURAZO	NR	1/19/11		7.94	21.6	1050	360
DURAZO	NR	4/4/11		7.20	21.9	1119	383
DURAZO	NR	7/14/11		7.01	23.6	1101	409
DURAZO	NR	10/12/11		7.23	24.9	1000	396
DURAZO	NR	2/7/12		7.26	25.3	1152	404
DURAZO	NR	4/12/12		7.41	21.8	1101	407
EAST	599796	2/8/08		7.45	19.9	423	10.6
EAST	599796	5/14/08		7.31	20.9	595	14.8
EAST	599796	7/23/08		7.34	20.8	605	11.8
EAST	599796	10/14/08		7.33	20.3	531	8.9
EAST	599796	1/20/09		7.33	20.0	482	12.5
EAST	599796	4/8/09		7.32	20.6	555	15.9
EAST	599796	7/13/09		7.33	21.2	613	13.8
EAST	599796	10/8/09		7.29	20.8	593	13.4
EAST	599796	1/25/10		7.08	19.0	585	10.7
EAST	599796	4/21/10		7.42	20.5	616	14.4
EAST	599796	4/21/10	DUP	7.42	20.5	616	13.9
EAST	599796	7/14/10		7.45	22.2	577.1	12.1
EAST	599796	10/20/10		7.64	21.2	650	12.1
EAST	599796	1/18/11		7.44	21.0	615.9	13.1
EAST	599796	4/5/11		7.19	20.8	612.5	13.8
EAST	599796	7/12/11		7.23	21.7	595.1	12.7
EAST	599796	10/12/11		7.31	21.4	599.7	15.1
EAST	599796	10/12/11	DUP	7.31	21.4	599.7	15.1
EAST	599796	1/31/12		7.24	20.0	610	12.8
EAST	599796	4/11/12		7.53	20.6	609.3	14.6
EAST	599796	7/9/12		7.20	21.1	580	14.2
EAST	599796	10/4/12		7.49	20.4	623.8	15.0
EAST	599796	1/17/13		7.46	20.0	613.0	13.1
EAST	599796	4/9/13		7.54	19.6	597.7	12.2
EAST	599796	7/9/13		7.46	21.2	603.6	12.1
EAST	599796	10/15/13		7.51	20.2	622.6	17.2
EAST	599796	1/14/14		7.54	20.2	632.2	15.5
EAST	599796	1/14/14	DUP	7.54	20.2	632.2	15.5
EAST	599796	4/8/14		7.44	20.5	634.7	15.3
EAST	599796	7/8/14		7.43	20.7	618.8	13.1
EAST	599796	10/22/14		7.23	22.8	601.0	20.7
EAST	599796	7/24/15		7.5	21.0	626.5	13.1
EAST	599796	7/12/16		7.30	21.3	615.9	14.7
EAST	599796	7/27/17		7.22	19.8	620.9	14.2
EAST	599796	7/30/18		7.26	19.8	605.9	12.4
EAST	599796	7/17/19		7.25	19.6	603.8	11.8
EAST	599796	8/13/20		7.17	20.3	612.3	12.2
EAST	599796	7/23/21		7.22	20.6	603.0	12.7
EAST	599796	7/7/22		7.54	19.6	619.1	11.9
EAST	599796	7/27/23		7.34	21.2	600.8	11.6
EAST	599796	7/31/24		7.34	20.9	609.6	11.6
ECHAVE	219449	2/1/12		7.39	20.7	390.0	26.7
ECHAVE	219449	4/23/12		7.50	22.5	440.0	26.4

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
ECHAVE	219449	7/17/12		7.44	22.2	430	26.1
ECHAVE	219449	10/9/12		7.69	21.9	404.7	26.1
ECHAVE	219449	10/9/12	DUP	7.69	21.9	404.7	26.0
ECHAVE	219449	1/18/13		7.61	21.7	408.5	25.4
ECHAVE	219449	5/14/13		7.74	22.2	400.2	25.2
ECHAVE	219449	7/17/13		7.81	22.1	406.4	24.3
ECHAVE	219449	10/8/13		7.66	21.4	404.3	24.5
ECHAVE	219449	1/13/14		7.68	21.0	412.4	25.7
ECHAVE	219449	4/10/14		7.67	21.4	409.3	26.4
ECHAVE	219449	7/17/14		7.68	21.6	405.0	26.7
ECHAVE	219449	10/22/14		7.43	21.4	406.0	25.9
ECHAVE	219449	8/3/15		7.88	28.7	406.8	24.6
ECHAVE	219449	7/22/16		7.86	27.5	391.5	24.7
ECHAVE	219449	7/28/17		7.59	25.1	403.2	25.7
ECHAVE	219449	7/17/18		7.68	24.3	397.5	24.1
ECHAVE	219449	7/23/19		7.54	26.3	398.3	23.0
ECHAVE	219449	8/10/20		7.74	30.4	397.0	22.2
ECHAVE	219449	7/21/21		7.70	26.1	390.3	22.7
ECHAVE	219449	7/12/22		7.73	27.2	392.8	19.5
ECHAVE	219449	7/21/23		7.67	28.7	391.6	18.9
ECHAVE	219449	7/25/24		7.75	27.3	387	18.1
EPPELE 641	805641	3/11/08		7.98	21.4	646	21.7
EPPELE 641	805641	5/12/08		7.21	21.7	667	24.7
EPPELE 641	805641	7/21/08		7.49	23.9	605	19
EPPELE 641	805641	10/14/08		7.56	20.4	642	21.8
EPPELE 641	805641	1/21/09		7.60	21.1	500	22.7
EPPELE 641	805641	4/8/09		7.56	22.4	538	19.7
EPPELE 641	805641	7/9/09		7.43	24.3	550	17.5
EPPELE 641	805641	7/20/10		7.58	23.3	529.2	21.1
EPPELE 641	805641	10/20/10		7.66	21.0	572.1	17.2
EPPELE 641	805641	1/17/11		7.43	21.0	576.4	17.3
EPPELE 641	805641	4/5/11		7.43	21.5	569.2	16.7
EPPELE 641	805641	7/11/11		7.27	23.5	563.1	18.6
EPPELE 641	805641	7/11/11	DUP	7.27	23.5	563.1	18.3
EPPELE 641	805641	10/12/11		7.38	20.9	500.0	19.6
EPPELE 641	805641	1/31/12		7.68	19.9	560.8	18.2
EPPELE 641	805641	4/11/12		7.74	20.6	563.8	19.5
EPPELE 641	805641	4/11/12	DUP	7.74	20.6	563.8	19.6
EPPELE 641	805641	7/6/12		7.60	21.7	560	18.8
EPPELE 641	805641	10/3/12		7.84	20.7	558.8	19.5
EPPELE 641	805641	1/17/13		7.76	19.1	559.6	18.8
EPPELE 641	805641	4/8/13		7.71	20.4	564.1	17.5
EPPELE 641	805641	4/8/13	DUP	7.71	20.4	564.1	17.4
EPPELE 641	805641	7/9/13		7.66	21.9	570.1	17.5
EPPELE 641	805641	10/15/13		7.86	21.1	682.5	31.9
EPPELE 641	805641	1/14/14		7.97	19.1	602.8	29.0
EPPELE 641	805641	4/8/14		7.60	19.4	600.2	21.5
EPPELE 641	805641	7/8/14		7.65	21.0	596.9	21.6
EPPELE 641	805641	10/21/14		7.22	22.2	659	32.2
EPPELE 641	805641	7/24/15		7.60	21.2	638.1	22.6
EPPELE 641	805641	7/12/16		7.84	24.6	576.6	18.9
EPPELE 641	805641	7/12/16	DUP	7.84	24.6	576.6	18.9

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
EPPELE 641	805641	7/27/17		7.70	21.4	563.1	18.8
EPPELE 641	805641	7/31/18		7.78	21.6	558.9	17.8
EPPELE 641	805641	2/8/22		7.45	20.1	582.0	20.8
EPPELE 641	805641	1/11/23		ND	20.7	556.8	21.0
FLEMING	218386	7/15/10		6.98	24.2	1390	573
FRANCO 101	500101	2/6/08		7.47	19.6	1301	670
FRANCO 101	500101	5/5/08		6.93	23.1	1557	680
FRANCO 101	500101	7/14/08		7.00	22.7	1586	680
FRANCO 101	500101	10/15/08		7.20	20.5	1560	680
FRANCO 101	500101	1/22/09		7.19	20.1	1178	740
FRANCO 101	500101	4/14/09		7.24	23.1	1416	690
FRANCO 101	500101	7/13/09		7.30	27.3	1532	670
FRANCO 101	500101	10/12/09		7.16	24.2	1493	650
FRANCO 101	500101	1/26/10		6.91	18.5	1529	640
FRANCO 101	500101	4/23/10		7.43	15.8	1559	699
FRANCO 101	500101	7/13/10		7.48	28.6	901.6	188
FRANCO 383	221383	9/13/12		7.66	25.0	1005	318
FRANCO 383	221383	10/5/12		7.63	24.4	1002	324
FRANCO 383	221383	11/13/12		7.67	19.8	988.2	349
FRANCO 383	221383	12/3/12		7.54	19.4	1001	332
FRANCO 383	221383	1/15/13		7.52	13.5	1010	333
FRANCO 383	221383	2/6/13		7.55	18.9	1004	353
FRANCO 383	221383	3/7/13		7.4	20.5	979.9	338
FRANCO 383	221383	4/10/13		7.7	20.4	1000	335
FRANCO 383	221383	7/10/13		7.69	25.7	1018	335
FRANCO 383	221383	10/16/13		7.63	21.9	1018	350
FRANCO 383	221383	1/14/14		7.68	20.1	1039	345
FRANCO 383	221383	4/8/14		7.68	24.3	1044	351
FRANCO 383	221383	4/8/14	DUP	7.68	24.3	1044	330
FRANCO 383	221383	7/14/14		7.63	26.5	1030	349
FRANCO 383	221383	10/8/14		7.47	23.5	954	335
FRANCO 383	221383	7/27/15		7.68	27.3	1047	322
FRANCO 383	221383	7/18/16		7.63	26.0	1040	339
FRANCO 383	221383	7/20/17		7.36	24.9	1056	337
FRANCO 383	221383	7/27/18		7.42	25.8	1063	371
FRANCO 383	221383	7/24/19		7.42	24.9	1085	349
FRANCO 383	221383	8/12/20		7.40	26.5	1105	367
FRANCO 383	221383	7/22/21		7.36	26.3	1101	392
FRANCO 383	221383	7/7/22		7.59	28.2	1077	367
FRANCO 383	221383	7/27/23		7.61	28.5	1119	458
FRANCO 383	221383	8/15/24		7.57	26.5	1148	388
FULTZ	212447	2/27/08		6.76	21.1	1827	152
FULTZ	212447	4/21/08		6.74	22.0	1739	137
FULTZ	212447	5/14/08		6.88	22.3	1532	131
FULTZ	212447	6/23/08		6.74	22.0	1788	111
FULTZ	212447	7/29/08		6.74	22.2	1989	152
FULTZ	212447	8/28/08		M	21.6	1889	137
FULTZ	212447	9/23/08		6.82	21.9	1821	137
FULTZ	212447	10/22/08	DUP	6.80	21.4	1940	145
FULTZ	212447	1/21/09		6.74	21.2	1481	82
FULTZ	212447	4/9/09		6.78	21.5	1695	138
FULTZ	212447	7/13/09		7.04	23.4	1452	81

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
FULTZ	212447	10/8/09		7.00	21.6	1262	72
FULTZ	212447	10/8/09	DUP	7.00	21.6	1262	71.8
FULTZ	212447	1/25/10		7.11	21.8	1282	66.7
FULTZ	212447	4/20/10		7.32	21.2	1202	68.3
FULTZ	212447	7/14/10		7.75	22.2	1132	57.0
FULTZ	212447	10/20/10		7.27	20.5	1091	54.7
FULTZ	212447	1/18/11		7.23	20.4	1136	56.9
FULTZ	212447	4/5/11		7.08	22.1	1082	49.5
FULTZ	212447	4/5/11	DUP	7.08	22.1	1082	51.7
FULTZ	212447	8/25/11		6.45	23.3	940	50.6
FULTZ	212447	10/12/11		7.22	21.7	870	48.5
FULTZ	212447	7/11/22		7.39	21.3	808.2	49.8
FULTZ	212447	9/11/24		7.45	21.6	852.1	74.5
GALLANT	502527	2/11/08		7.46	20.2	604	17.9
GALLANT	502527	7/23/08		7.26	21.2	925	20.9
GARNER 635	587635	2/4/08		7.61	22.7	479	37.8
GARNER 635	587635	5/5/08		7.26	24.9	468	35.8
GARNER 635	587635	7/15/08		7.63	25.6	480	37.4
GARNER 635	587635	10/15/08		7.65	24.1	472	36
GARNER 635	587635	1/28/09		7.69	23.4	368	37.4
GARNER 635	587635	4/15/09		7.83	24.1	412	36.9
GARNER 635	587635	7/16/09		7.56	25.1	445	35.7
GARNER 635	587635	10/14/09		7.58	25.2	446	36.1
GARNER 635	587635	2/2/10		7.79	22.8	465	35.1
GARNER 635	587635	4/22/10		7.84	23.7	464.1	36.9
GARNER 635	587635	7/20/10		7.57	25.3	458.2	38.8
GARNER 635	587635	10/19/10		8.23	25.4	510	37.9
GARNER 635	587635	1/19/11		7.82	24.1	463.4	35.7
GARNER 635	587635	1/19/11	DUP	7.82	24.1	463.4	35.7
GARNER 635	587635	4/6/11		7.76	23.4	467.4	35.8
GARNER 635	587635	7/15/11		7.19	25.0	457.40	37.7
GARNER 635	587635	10/11/11		7.57	24.2	400.0	38
GARNER 635	587635	2/2/12		7.38	22.7	469.5	39.2
GARNER 635	587635	4/13/12		7.62	24.0	460.0	33.5
GARNER 635	587635	7/11/12		7.52	24.9	520	37.7
GARNER 635	587635	7/11/12	DUP	7.52	24.9	520	37.2
GARNER 635	587635	10/5/12		8.09	23.1	472.9	39.1
GARNER 635	587635	1/11/13		7.83	23.7	470.8	38.7
GARNER 635	587635	4/15/13		7.79	23.4	471.5	40
GARNER 635	587635	7/10/13		7.9	25.0	469.5	36.7
GARNER 635	587635	10/11/13		7.78	24.0	476.7	38.8
GARNER 635	587635	1/17/14		7.81	23.2	473.6	41
GARNER 635	587635	4/15/14		7.74	23.7	470.7	40.4
GARNER 635	587635	7/26/17		7.46	23.4	474.1	40.6
GARNER 635	587635	7/24/18		7.48	23.9	468.1	41.7
GARNER 635	587635	7/15/19		7.49	23.4	473.6	41.2
GARNER 635	587635	8/6/20		7.51	24.2	473.6	36.3
GARNER 635	587635	7/21/21		7.52	24.1	471.9	38.0
GARNER 635	587635	7/12/22		7.62	25.9	468.6	37.2
GARNER 635	587635	7/24/23		7.63	25.5	472.4	37.3
GARNER 635	587635	7/31/24		7.57	24.0	472.6	31.8
GGOOSE 547	628547	5/21/08		7.08	22.7	856	199

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
GGOOSE 547	628547	8/15/08		7.02	24.8	915	178
GGOOSE 547	628547	10/29/08		7.27	22.6	897	216
GGOOSE 547	628547	2/24/09		7.06	23.8	851	186
GGOOSE 547	628547	5/14/09		7.15	23.9	743	174
GGOOSE 547	628547	8/19/09		7.20	23.8	887	175
GGOOSE 547	628547	11/11/09		7.15	23.1	897	188
GL-03	539782	3/4/08		7.43	25.7	417	20.3
GL-03	539782	5/22/08		7.06	25.3	647	43.3
GL-03	539782	8/4/08		7.10	26.8	673	36.1
GL-03	539782	11/12/08		7.21	25.2	478	34.9
GL-03	539782	2/26/09		7.05	26.5	603	54.8
GL-03	539782	5/5/09		6.91	28.1	682	43.9
GL-03	539782	8/1/09		7.12	27.4	768	43.1
GL-03	539782	11/10/09		6.96	27.0	692	49
GL-03	539782	3/2/10		7.36	24.9	693	43.4
GL-03	539782	3/2/10	DUP	7.36	24.9	693	45.1
GL-03	539782	4/9/10		6.17	25.6	556	48.1
GL-03	539782	7/7/10		6.48	26.3	546	44.4
GL-03	539782	2/1/12		6.57	24.1	559	42.0
HARDT	NR	2/5/13		7.15	17.5	670.6	17.7
HOBAN	805290	2/27/08		6.93	22.1	1359	510
HOBAN	805290	5/7/08		6.88	22.3	1532	670
HOBAN	805290	7/14/08		6.88	23.1	1719	690
HOBAN	805290	10/16/08		6.98	22.4	1624	692
HOBAN	805290	1/28/09		6.82	21.3	1220	580
HOBAN	805290	4/15/09		7.07	21.7	1423	700
HOBAN	805290	7/14/09		6.78	22.6	1551	670
HOBAN	805290	10/15/09		6.75	22.7	1487	670
HOBAN	805290	10/15/09	DUP	6.75	22.7	1487	780
HOBAN	805290	3/2/10		7.12	19.8	1575	580
HOBAN	805290	8/31/11		6.64	22.3	1772	893
HOBAN	805290	12/14/11		6.68	20.2	1870	944
HOBAN	805290	2/1/12		6.74	20.9	1900	993
HOBAN	805290	4/19/12		6.81	21.5	1805	868
HOBAN	805290	7/11/12		6.86	21.4	1906	1110
HOBAN	805290	10/17/12		6.74	22.0	1846	1040
HOBAN	805290	2/15/13		6.64	20.7	1934	954
HOBAN	805290	5/8/13		6.6	21.4	1903	1060
HOBAN	805290	8/13/13		6.85	21.6	1925	1030
HOBAN	805290	11/1/13		6.74	21.0	1920	1070
HOBAN	805290	2/10/14		6.64	21.0	1950	991
HOBAN	805290	5/7/14		6.69	21.1	1958	1030
HOBAN	805290	7/21/14		6.69	21.6	1903	1030
HOBAN	805290	11/13/14		6.88	21.7	1965	1020
HOBAN	805290	9/10/15		6.82	22.1	1922	1030
HOBAN	805290	8/18/16		6.77	22.0	1922	1050
HOBAN	805290	7/13/17		6.77	21.7	1924	1270
HOBAN	805290	7/13/17	DUP	6.77	21.7	1924	1050
HOBAN	805290	7/25/18		7.01	22.2	1907	998
HOBAN	805290	8/7/19		6.90	22.2	1798	923
HOBAN	805290	9/8/20		7.15	24.4	1487	637
HOBAN	805290	9/20/21		6.91	21.7	1182	477

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
HOBAN	805290	7/25/22		7.19	22.1	868	309
HOBAN	805290	7/25/22	DUP	7.19	22.1	868	310
HOBAN	805290	9/12/23		7.37	21.6	744	334
HOBAN	805290	8/28/24		7.16	21.8	1065	213
HOWARD 312	221312	8/14/12		8.35	26.3	629.3	69.2
HOWARD 312	221312	10/16/12		8.18	26.6	648.3	68.1
HOWARD 312	221312	2/6/13		8.18	24.1	650.3	71.9
HOWARD 312	221312	4/9/13		8.2	24.3	621	67.5
HOWARD 312	221312	7/12/13		8.25	26.8	624.9	67.9
HOWARD 312	221312	10/16/13		8.12	25.6	623.7	70.2
HOWARD 312	221312	1/8/14		8.22	24.8	620.1	70.8
HOWARD 312	221312	4/10/14		8.14	26	621.7	66.1
HOWARD 312	221312	4/10/14	DUP	8.14	26	621.7	68.2
HOWARD 312	221312	7/14/14		8.16	26.6	618.3	69.1
HOWARD 312	221312	10/10/14		7.99	26.4	621.0	66.8
HOWARD 312	221312	7/31/15		8.17	27.4	618.8	67.5
HOWARD 312	221312	7/27/16		8.12	26.3	612.6	67.9
HOWARD 312	221312	7/21/17		8.00	26.0	616.4	65.8
HOWARD 312	221312	7/23/18		8.05	26.1	614.7	70.7
HOWARD 312	221312	7/9/19		7.96	25.9	607.8	65.6
HOWARD 312	221312	7/21/20		8.07	26.7	611.7	75.7
HOWARD 312	221312	7/21/20	DUP	8.07	26.7	611.7	73.1
HOWARD 312	221312	7/28/21		7.97	25.9	609.2	63.1
HOWARD 312	221312	7/13/22		8.04	25.5	614.9	65.3
HOWARD 312	221312	7/26/23		8.11	26.4	610.5	70.3
HOWARD 312	221312	8/7/24		8.14	26.6	621.7	67.1
HOWARD NR	NR	3/4/08		7.06	20.4	1280	571
HOWARD NR	NR	5/8/08		6.95	21.0	1494	673
HOWARD NR	NR	7/14/08		7.00	21.1	1566	610
HOWARD NR	NR	10/15/08		7.00	20.6	1598	683
HOWARD NR	NR	1/28/09		6.82	21.0	1203	640
HOWARD NR	NR	1/28/09	DUP	6.82	21.0	1203	640
HOWARD NR	NR	4/15/09		7.02	21.5	1397	620
HOWARD NR	NR	7/15/09		7.16	21.5	1539	640
HOWARD NR	NR	10/12/09		6.89	21.4	1414	600
HOWARD NR	NR	1/27/10		7.35	20.0	1714	440
HOWARD NR	NR	1/27/10	DUP	7.35	20.0	1714	520
HOWARD NR	NR	4/21/10		7.16	20.8	1490	710
HOWARD NR	NR	7/19/10		6.94	24.6	1350	548
HOWARD NR	NR	10/18/10		6.47	21.4	1420	568
HOWARD NR	NR	1/17/11		7.12	19.8	1370	520
HOWARD NR	NR	4/11/11		7.20	20.6	1489	616
HOWARD NR	NR	8/26/11		7.11	23.2	1160	498
HOWARD NR	NR	10/11/11		7.1	21.0	1220	545
HOWARD NR	NR	10/11/11	DUP	7.1	21.0	1220	538
HOWARD NR	NR	2/1/12		7.29	20.6	1367	630
HOWARD NR	NR	4/13/12		6.99	21.2	1508	632
HOWARD NR	NR	9/13/12		7.12	21.9	1576	699
HOWARD NR	NR	10/16/12		7.06	21.1	1417	576
HOWARD NR	NR	2/6/13		7.06	20.3	1499	679
HOWARD NR	NR	4/9/13		7.38	19.4	1319	521
HOWARD NR	NR	7/12/13		7.40	21.6	1430	590

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
HOWARD NR	NR	10/16/13		7.15	20.3	1319	522
HOWARD NR	NR	1/8/14		7.24	20.3	1267	462
HOWARD NR	NR	4/10/14		7.23	20.6	1262	471
HOWARD NR	NR	7/14/14		7.18	21.1	1300	496
HOWARD NR	NR	7/14/14	DUP	7.18	21.1	1300	495
HOWARD NR	NR	10/10/14		6.93	23.2	1339	413
HOWARD NR	NR	7/31/15		7.16	21.9	1316	484
HOWARD NR	NR	7/21/17		6.98	20.1	1278	447
HOWARD NR	NR	7/9/19		6.90	20.1	1304	480
HOWARD NR	NR	7/28/21		6.98	19.9	1238	496
HOWARD NR	NR	7/25/23		7.05	21.2	1368	544
KEEFER	209744	2/6/08		7.70	19.0	378	6.8
KEEFER	209744	5/6/08		7.19	20.3	512	9
KEEFER	209744	7/16/08		7.21	21.4	539	8
KEEFER	209744	10/28/08		7.32	20.1	534	21.2
KEEFER	209744	1/28/09		7.42	19.5	356	6.1
KEEFER	209744	4/16/09		7.29	20.0	452	7.7
KEEFER	209744	7/14/09		7.35	22.1	533	7
KEEFER	209744	10/13/09		7.24	20.7	516	8.7
KEEFER	209744	1/26/10		7.15	18.8	483	7.3
KEEFER	209744	4/20/10		7.44	20.5	540.9	8.77
KEEFER	209744	7/15/10		7.50	22.2	535.8	8.84
KEEFER	209744	10/19/10		6.72	20.2	470	7.89
KEEFER	209744	1/18/11		7.45	20.6	450	7.24
KEEFER	209744	4/6/11		7.48	19.1	546.2	8.04
KEEFER	209744	7/18/11		7.19	23.2	492.3	7.79
KEEFER	209744	10/11/11		7.39	20.7	486.9	7.98
KEEFER	209744	2/6/12		7.36	20.3	482.0	6.84
KEEFER	209744	4/23/12		7.23	21.6	500	7.14
KEEFER	209744	7/17/12		7.40	21.0	500	7.29
KEEFER	209744	10/9/12		7.58	20.1	506.6	8.47
KEEFER	209744	1/10/13		7.55	19.3	466.3	6.37
KEEFER	209744	4/18/13		7.58	20	475.9	7.3
KEEFER	209744	7/11/13		7.67	20.8	485.1	7.23
KEEFER	209744	7/11/13	DUP	7.67	20.8	485.1	7.24
KEEFER	209744	10/7/13		7.53	20.6	458.9	6.39
KEEFER	209744	1/7/14		7.61	19.7	464.8	6.54
KEEFER	209744	4/9/14		7.59	20.2	473.3	6.61
KEEFER	209744	7/10/14		7.49	21.6	460.5	6.66
KEEFER	209744	10/8/14		7.32	22.3	429	6.35
KEEFER	209744	7/21/15		7.62	22.1	462.2	6.09
KEEFER	209744	7/25/16		7.42	22.2	477.9	6.81
KEEFER	209744	7/25/17		7.31	19.4	499.5	7.23
KEEFER	209744	2/23/18		7.31	19.5	472.7	6.60
KEEFER	209744	7/9/18		7.35	19.9	494.4	6.25
KEEFER	209744	1/11/19		7.26	18.4	466.2	6.59
KEEFER	209744	7/10/19		7.23	19.4	495.1	7.03
KEEFER	209744	1/17/20		7.56	18.0	486.5	7.07
KEEFER	209744	7/22/20		7.35	20.2	496.3	7.19
KEEFER	209744	1/12/21		7.30	20.1	495.8	7.04
KEEFER	209744	7/13/21		7.30	20.4	505.3	9.24
KEEFER	209744	1/25/22		7.34	18.5	500.5	7.32

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
KEEFER	209744	7/7/22		7.47	20.8	510.2	7.42
KEEFER	209744	7/7/22	DUP	7.47	20.8	510.2	7.41
KEEFER	209744	1/24/23		7.44	19.5	477.4	7.93
KEEFER	209744	7/19/23		7.39	20.0	515.7	6.78
KEEFER	209744	1/17/24		7.50	18.6	507.9	8.00
KEEFER	209744	7/25/24		7.68	24.5	513	8.10
LAIR	236750	1/31/23		7.83	14.8	534.0	11.2
LAIR	236750	7/27/23		7.50	27.7	556.0	11.3
LAIR	236750	9/11/24		7.68	24.7	549.6	12.2
MARCELL	NR	8/26/11		7.12	25.1	1390	669
MARCELL	NR	9/26/11		6.63	22.1	1502	638
MARCELL	NR	11/22/11		7.29	21.0	1536	687
MARCELL	NR	2/1/12		7.42	20.8	1557	705
MARCELL	NR	4/13/12		7.15	21.8	1560	668
MARCELL	NR	7/13/12		6.86	22.3	1730	650
MARCELL	NR	10/17/12		7.18	21.3	1546	660
MARCELL	NR	10/17/12	DUP	7.18	21.3	1546	657
MARCELL	NR	2/6/13		7.25	19.8	1553	714
MARCELL	NR	2/6/13	DUP	7.25	19.8	1553	714
MARCELL	NR	4/10/13		7.07	19.9	1578	695
MARCELL	NR	7/15/13		7.09	21.4	1617	724
MCCONNELL 265	539265	2/20/08		7.21	21.1	1435	720
MCCONNELL 265	539265	5/6/08		6.77	21.6	1668	737
MCCONNELL 265	539265	7/15/08		6.91	22.3	1775	700
MCCONNELL 265	539265	10/15/08		6.82	21.3	1686	703
MCCONNELL 265	539265	1/28/09		6.85	21	1274	660
MCCONNELL 265	539265	4/15/09		7.04	21.3	1472	657
MCCONNELL 265	539265	7/15/09		7.01	22.2	1607	662
MCCONNELL 265	539265	10/12/09		6.77	21.7	1594	666
MCCONNELL 265	539265	1/26/10		6.71	21.5	1641	685
MCCONNELL 265	539265	4/22/10		6.95	20.1	1691	811
MCCONNELL 265	539265	7/21/10		6.86	23.5	1560	805
MCCONNELL 265	539265	10/18/10		6.97	22.0	1704	775
MCCONNELL 265	539265	1/19/11		7.38	20.6	1610	711
MCCONNELL 265	539265	4/8/11		7.04	19.8	1775	810
MCCONNELL 265	539265	7/12/11		6.60	23.7	1702	790
MCCONNELL 265	539265	10/11/11		7.18	21.8	1590	845
MCCONNELL 265	539265	2/7/12		7.14	20.6	1842	847
MCCONNELL 265	539265	4/11/12		6.82	21.4	1781	833
MCCONNELL 265	539265	7/6/12		6.88	22.4	1827	851
MCCONNELL 265	539265	10/8/12		7.07	20.9	1862	934
MCCONNELL 265	539265	1/10/13		6.89	20.9	1854	902
MCCONNELL 265	539265	1/10/13	DUP	6.89	20.9	1854	889
MCCONNELL 265	539265	4/18/13		7.11	20.4	1889	884
MCCONNELL 265	539265	7/10/13		7.14	22.1	1897	898
MCCONNELL 265	539265	10/14/13		7.00	21.0	1911	908
MCCONNELL 265	539265	1/8/14		7.23	20.9	1942	985
MCCONNELL 265	539265	4/14/14		6.99	20.7	1913	963
MCCONNELL 265	539265	7/14/14		6.95	21.8	1941	975
MCCONNELL 265	539265	10/7/14		6.84	22.2	1976	968
MCCONNELL 265	539265	7/31/15		7.04	21.9	1970	949
MCCONNELL 265	539265	7/20/17		6.73	20.6	1964	905

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
MCCONNELL 459	221459	7/27/12		8.25	26.5	510.0	41
MCCONNELL 459	221459	10/8/12		8.12	25.3	517.3	43.4
MCCONNELL 459	221459	1/15/13		8.06	24.5	512.6	37.4
MCCONNELL 459	221459	4/10/13		8.14	23.5	487.0	35.5
MCCONNELL 459	221459	7/10/13		8.10	25.5	480.7	34.5
MCCONNELL 459	221459	10/14/13		8.04	24.9	486.7	34.6
MCCONNELL 459	221459	1/8/14		8.20	23.7	489.4	37.1
MCCONNELL 459	221459	4/14/14		8.08	24.6	474.3	35.9
MCCONNELL 459	221459	9/9/14		8.12	25.1	465.7	33.0
MCCONNELL 459	221459	10/7/14		7.94	25.7	478.0	34.1
MCCONNELL 459	221459	7/31/15		8.13	25.9	453.6	28.5
MCCONNELL 459	221459	7/26/16		8.08	25.6	455.3	30.4
MCCONNELL 459	221459	7/20/17		7.93	24.9	449.8	32.3
MCCONNELL 459	221459	7/17/18		7.93	24.8	446.7	28.6
MCCONNELL 459	221459	7/10/19		7.90	25.0	447.9	27.2
MCCONNELL 459	221459	8/10/20		8.01	25.5	450.9	28.6
MCCONNELL 459	221459	7/27/21		7.92	24.7	447.2	28.1
MCCONNELL 459	221459	7/12/22		8.03	25.7	450.0	28.6
MCCONNELL 459	221459	8/4/23		8.19	24.2	448.5	27.7
MCCONNELL 459	221459	8/1/24		7.97	25.3	458.3	27.5
METZLER	35-71891	3/5/08		7.27	21.6	1055	317
METZLER	35-71891	5/15/08		7.12	22.8	1051	329
METZLER	35-71891	7/31/08		7.16	22.5	1078	317
METZLER	35-71891	10/20/08		7.24	22.2	1080	305
METZLER	35-71891	10/20/08	DUP	7.24	22.2	1080	326
METZLER	35-71891	2/11/09		7.12	21.3	818	321
METZLER	35-71891	4/20/09		7.22	23.2	845	313
METZLER	35-71891	7/15/09		7.41	22.9	1031	293
METZLER	35-71891	7/15/09	DUP	7.41	22.9	1031	309
METZLER	35-71891	10/14/09		7.1	22.7	989	315
METZLER	35-71891	2/1/10		7.22	21.7	1021	286
METZLER	35-71891	5/18/10		7.56	21.0	1053	330
METZLER	35-71891	7/16/10		7.20	24.1	1007	330
METZLER	35-71891	10/19/10		7.15	22.6	1006	319
METZLER	35-71891	1/19/11		7.55	21.1	930	298
METZLER	35-71891	4/4/11		7.03	23.3	1018	323
METZLER	35-71891	7/12/11		7.07	22.3	993.0	312
METZLER	35-71891	10/12/11		7.27	22.1	910	301
METZLER	35-71891	2/7/12		7.36	21.5	1019	326
METZLER	35-71891	4/12/12		7.34	21.1	1009	320
MOORE	538847	2/20/08		7.69	22.2	362	7.1
MOORE	538847	5/8/08		7.09	22.4	432	7.5
MOORE	538847	7/16/08		7.34	23.0	482	9.8
MOORE	538847	10/29/08		7.32	22.4	452	19.2
MOORE	538847	1/29/09		7.11	21.7	328	6.6
MOORE	538847	4/16/09		7.40	22.1	374	6.4
MOORE	538847	7/15/09		7.44	23.3	439	5.8
MOORE	538847	10/13/09		7.36	22.6	429	7.1
MOORE	538847	1/26/10		7.54	19.6	423	6.3
MOORE	538847	4/22/10		7.47	20.6	433	7.40
MOORE	538847	7/15/10		7.44	24.1	431.3	7.54
MOORE	538847	7/15/10	DUP	7.44	24.1	431.3	7.11

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
MOORE	538847	10/19/10		6.79	22.1	430	7.14
MOORE	538847	1/18/11		7.48	21.1	390	6.42
MOORE	538847	4/6/11		7.39	21.4	426.3	6.70
MOORE	538847	7/13/11		6.91	23.2	423.4	7.62
MOORE	538847	10/11/11		7.31	22.5	419.0	7.31
MOORE	538847	1/31/12		7.35	21.7	430	7.21
MOORE	538847	4/23/12		7.34	22.8	470	6.99
MOORE	538847	4/23/12	DUP	7.34	22.8	470	7.05
MOORE	538847	7/17/12		7.36	22.9	430	7.01
MOORE	538847	7/17/12	DUP	7.36	22.9	430	6.99
MOORE	538847	10/8/12		7.64	21.4	433.2	7.51
MOORE	538847	1/10/13		7.50	20.8	439.9	7.16
MOORE	538847	4/19/13		7.68	21.6	434.7	7.25
MOORE	538847	7/11/13		7.56	22.9	442.2	7.14
MOORE	538847	10/7/13		7.59	21.5	431.8	6.99
MOORE	538847	10/13/14		7.47	22.0	433	6.72
MOORE	538847	8/3/15		7.61	22.9	446.7	7.12
MOORE	538847	7/14/16		7.55	23.0	445.8	7.86
MOORE	538847	7/25/17		7.28	21.1	455.5	7.98
MOORE	538847	8/1/18		7.24	26.9	436.8	8.10
MOORE	538847	7/9/19		6.97	22.7	443.9	6.26
MOORE	538847	7/22/20		7.35	21.9	447.0	8.03
MOORE	538847	7/28/21		7.31	21.1	445.6	8.51
MOORE	538847	7/7/22		7.39	21.5	449.4	7.96
MOORE	538847	8/4/23		7.65	21.9	445.1	8.24
MOORE	538847	8/16/24		7.43	21.9	446.9	8.68
NESS	509127	7/24/08		7.35	26.5	563	50.2
NESS	509127	10/16/08		7.47	21.4	542	48.9
NESS	509127	1/26/09		7.39	17.2	422	52.3
NESS	509127	5/11/09		7.52	28.8	472	45.9
NESS	509127	8/11/09		7.56	28.7	525	39.8
NESS	509127	11/12/09		7.53	24.5	537	51.3
NESS	509127	2/2/10		7.67	19.7	535	48.7
NESS	509127	4/21/10		7.70	23.5	518.9	42.1
NESS	509127	7/19/10		7.58	28.9	524.7	48.1
NESS	509127	1/18/11		7.49	21.8	536.6	50.1
NESS	509127	7/12/11		7.48	26.3	520.0	43.5
NESS	509127	2/3/12		7.58	21.1	538.2	49.0
NESS	509127	7/10/12		7.20	26.8	380	40.1
NESS	509127	7/10/12	DUP	7.20	26.8	380	39.2
NESS	509127	1/9/13		7.57	19.1	549.6	53.9
NESS	509127	7/8/13		7.84	27.9	539.2	46.8
NESS	509127	1/6/14		7.61	20.3	542.4	53.4
NESS	509127	7/7/14		7.60	25.3	536.6	48.3
NESS	509127	7/20/15		7.75	27.4	560.8	54.3
NESS	509127	7/11/16		7.60	28.5	545.2	49.6
NESS	509127	7/27/17		7.39	26.4	545.8	55.2
NESS	509127	7/31/18		7.42	26.4	550.7	54.1
NESS	509127	7/11/19		7.03	27.1	517.3	30.5
NESS	509127	8/14/20		7.73	28.0	538.1	46.5
NESS	509127	7/19/21		7.82	26.8	583.1	47.9
NESS	509127	7/14/22		7.68	29.8	554.2	49.8

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NESS	509127	7/27/23		7.85	29.5	523.0	39.9
NESS	509127	7/31/24		7.60	24.7	542.3	40.1
NOTEMAN	212483	2/5/08		6.70	19.9	1317	310
NOTEMAN	212483	5/13/08		6.67	23.0	1445	272
NOTEMAN	212483	7/24/08		6.68	24.2	1539	274
NOTEMAN	212483	10/23/08		6.57	23.2	1643	356
NOTEMAN	212483	1/19/09		6.38	22.9	1098	322
NOTEMAN	212483	4/7/09		6.56	23.8	1375	303
NOTEMAN	212483	7/8/09		6.55	24.6	1405	260
NOTEMAN	212483	10/5/09		6.48	24.1	1442	281
NOTEMAN	212483	1/20/10		6.79	20.3	1450	289
NOTEMAN	212483	4/19/10		6.81	22.4	1446	307
NOTEMAN	212483	7/19/10		6.77	24.6	1438	309
NOTEMAN	212483	10/18/10		6.08	24.6	1430	280
NOTEMAN	212483	1/19/11		6.84	22.3	1446	266
NOTEMAN	212483	4/4/11		6.72	22.9	1446	276
NOTEMAN	212483	4/4/11	DUP	6.72	22.9	1446	279
NOTEMAN	212483	7/11/11		6.78	23.9	1406	272
NOTEMAN	212483	10/11/11		6.96	23.4	1250	286
NOTEMAN	212483	2/3/12		6.68	21.3	1370	301
NOTEMAN	212483	4/23/12		6.68	24.0	1580	291
NOTEMAN	212483	7/9/12		6.57	24.7	1360	265
NOTEMAN	212483	7/9/12	DUP	6.57	24.7	1360	265
NOTEMAN	212483	10/4/12		6.80	23.6	1412	287
NOTEMAN	212483	1/17/13		6.69	23.3	1417	288
NOTEMAN	212483	4/8/13		6.90	22.3	1409	280
NOTEMAN	212483	7/9/13		6.89	24.3	1400	278
NOTEMAN	212483	10/14/13		6.75	23.2	1528	355
NOTEMAN	212483	1/10/14		6.83	22.2	1440	311
NOTEMAN	212483	4/10/14		6.84	23.2	1426	301
NOTEMAN	212483	7/7/14		6.80	23.2	1423	289
NOTEMAN	212483	12/10/14		6.66	22.8	1528	366
NOTEMAN	212483	7/23/15		6.87	24.1	1424	287
NOTEMAN	212483	7/15/16		6.79	23.9	1412	257
NOTEMAN	212483	7/27/17		6.57	22.9	1383	265
NOTEMAN	212483	7/24/19		6.61	22.6	1359	235
NOTEMAN	212483	7/20/21		6.53	23.5	1328	211
NOTEMAN	212483	7/27/23		6.86	23.2	1327	188
NOTEMAN HOUSE	212483	2/3/12		7.06	13.5	1520	324
NSD-02	527587	2/5/08		ND	ND	ND	43
NSD-02	527587	7/7/08		8.02	21.0	609.00	44
NSD-03	527586	2/5/08		ND	ND	ND	70.7
NSD-03	527586	7/7/08		7.64	21.0	570.00	58.9
NWC-02	562944	10/27/08		7.47	22.2	438	5.1
NWC-02	562944	2/12/09		7.58	21.6	330	6.6
NWC-02	562944	4/23/09		7.39	23.8	373	6.4
NWC-02	562944	7/21/09		7.62	23.9	408	5
NWC-02	562944	10/21/09		7.32	22.6	436	6.8
NWC-02	562944	2/3/10		7.68	19.6	423	8.5
NWC-02	562944	4/21/10		7.57	22.1	413	7.26
NWC-02	562944	7/20/10		7.36	23.7	412.5	6.87
NWC-02	562944	10/19/10		7.42	22.5	416.2	7.39

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-02	562944	1/18/11		7.47	23.2	390	6.43
NWC-02	562944	4/6/11		7.27	22.9	413.5	6.4
NWC-02	562944	7/15/11		7.03	22.5	416.3	7.24
NWC-02	562944	10/13/11		7.45	21.9	370	7.31
NWC-02	562944	1/30/12		7.39	21.2	431.3	7.78
NWC-02	562944	4/25/12		7.42	22.4	370	8.42
NWC-02	562944	7/18/12		7.33	22.5	430	6.99
NWC-02	562944	10/10/12		7.58	21.7	423.9	7.46
NWC-02	562944	1/10/13		7.58	21.8	396.4	9.02
NWC-02	562944	4/17/13		7.64	21.2	426.2	7.52
NWC-02	562944	7/12/13		7.65	22.0	429.3	6.91
NWC-02	562944	10/10/13		7.49	21.2	433.4	7.05
NWC-02	562944	10/10/13	DUP	7.49	21.2	433.4	7.14
NWC-02	562944	1/13/14		7.6	21.2	426.7	7.03
NWC-02	562944	4/7/14		7.59	21.3	432.9	7.34
NWC-02	562944	7/10/14		7.57	22.0	431.6	7.65
NWC-02	562944	10/13/14		7.48	23.1	424	7.04
NWC-02	562944	2/12/15		7.42	21.0	436	7.11
NWC-02	562944	7/30/15		7.62	22.2	436.2	6.31
NWC-02	562944	1/12/16		7.81	20.2	421.5	6.17
NWC-02	562944	7/26/16		7.54	21.4	434.4	6.81
NWC-02	562944	1/26/17		7.41	21.0	421.2	6.81
NWC-02	562944	7/18/17		7.29	21.0	435.8	7.15
NWC-02	562944	1/16/18		7.39	20.8	427.3	6.76
NWC-02	562944	7/18/18		7.34	20.7	435.3	6.50
NWC-02	562944	1/7/19		7.39	20.6	430.6	7.07
NWC-02	562944	7/9/19		7.14	21.4	442.2	5.75
NWC-02	562944	1/16/20		7.55	20.5	430.6	7.83
NWC-02	562944	7/22/20		7.47	21.3	437.9	8.15
NWC-02	562944	1/12/21		7.42	21.3	422.1	8.55
NWC-02	562944	7/22/21		7.36	20.6	442.6	9.64
NWC-02	562944	2/1/22		7.31	20.3	432.1	8.48
NWC-02	562944	7/14/22		7.51	26.0	422.2	9.04
NWC-02	562944	2/2/23		7.38	20.9	449.4	8.30
NWC-02	562944	8/9/23		7.73	21.2	473.1	9.22
NWC-02	562944	1/26/24		7.51	19.2	454	9.31
NWC-02	562944	8/9/24		7.49	21.6	449.2	9.42
NWC-03	203321	3/4/08		ND	ND	ND	560
NWC-03	203321	6/9/08		ND	ND	ND	524
NWC-03	203321	10/27/08		7.07	21.9	1374	489
NWC-03	203321	2/12/09		7.06	20.2	1023	412
NWC-03	203321	4/23/09		6.98	21.9	1129	466
NWC-03	203321	4/23/09	DUP	6.98	21.9	1129	460
NWC-03	203321	7/21/09		7.21	22.9	1194	458
NWC-03	203321	10/21/09		6.94	21.8	1224	444
NWC-03	203321	2/3/10		7.24	20.7	1214	444
NWC-03	203321	4/21/10		7.22	21.6	1178	433
NWC-03	203321	7/20/10		7.04	22.8	1229	477
NWC-03	203321	10/19/10		7.22	21.3	1172	432
NWC-03	203321	1/18/11		7.09	22.8	1120	386
NWC-03	203321	4/6/11		7.19	21.7	1114	361
NWC-03	203321	7/15/11		6.91	21.8	1094	386

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-03	203321	10/13/11		7.23	21.6	960	353
NWC-03	203321	1/30/12		7.15	21.5	1061	379
NWC-03	203321	4/25/12		7.17	21.6	920	346
NWC-03	203321	4/25/12	DUP	7.17	21.6	920	347
NWC-03	203321	7/18/12		7.05	22.1	1080	354
NWC-03	203321	10/10/12		7.31	21.1	1029	354
NWC-03	203321	10/10/12	DUP	7.31	21.1	1029	353
NWC-03	203321	1/10/13		7.18	20.8	1051	370
NWC-04	551849	3/4/08		ND	ND	ND	240
NWC-04	551849	6/9/08		ND	ND	ND	231
NWC-04	551849	10/27/08		7.32	25.0	856	162
NWC-04	551849	1/22/09		7.23	22.9	688	184
NWC-04	551849	2/12/09		7.20	19.8	699	181
NWC-04	551849	2/12/09	DUP	7.20	19.8	699	198
NWC-04	551849	3/11/09		7.15	23.4	846	197
NWC-04	551849	4/23/09		7.21	24.1	797	188
NWC-04	551849	5/28/09		7.01	24.1	933	210
NWC-04	551849	39988		6.93	25.6	792	169
NWC-04	551849	7/21/09		7.48	24.3	859	193
NWC-04	551849	8/19/09		7.12	24.5	906	183
NWC-04	551849	9/23/09		7.16	23.8	953	202
NWC-04	551849	10/21/09		7.18	24.3	875	191
NWC-04	551849	11/18/09		7.24	22.9	909	191
NWC-04	551849	12/16/09		7.28	22.3	926	193
NWC-04	551849	2/3/10		7.49	22.3	844	167
NWC-04	551849	3/8/10		7.33	22.5	880	182
NWC-04	551849	4/21/10		7.34	22.8	913	218
NWC-04	551849	5/18/10		7.68	25.8	901.3	210
NWC-04	551849	6/15/10		7.31	24.5	917.5	212
NWC-04	551849	7/20/10		7.28	28.3	873.2	188
NWC-04	551849	8/25/10		7.55	24.8	820.9	196
NWC-04	551849	9/29/10		7.38	24.5	920.2	205
NWC-04	551849	10/19/10		7.34	23.6	870.2	195
NWC-04	551849	11/4/10		7.53	23.9	853.2	197
NWC-04	551849	12/14/10		7.41	23.6	856.8	182
NWC-04	551849	1/18/11		7.31	24.1	860	194
NWC-04	551849	2/17/11		7.46	22.3	848.6	169
NWC-04	551849	3/17/11		7.44	24.1	888.1	182
NWC-04	551849	4/5/11		7.32	23.4	878.7	196
NWC-04	551849	5/11/11		7.32	23.1	868.1	175
NWC-04	551849	6/17/11		7.28	23.7	856.3	204
NWC-04	551849	7/15/11		7.06	23.5	875.1	202
NWC-04	551849	8/25/11		7.32	25.1	780	195
NWC-04	551849	9/26/11		6.56	26.2	875.4	198
NWC-04	551849	9/26/11	DUP	6.56	26.2	875.4	199
NWC-04	551849	10/13/11		7.46	23.3	770	198
NWC-04	551849	11/22/11		7.36	22.9	853.5	201
NWC-04	551849	12/8/11		7.33	22.3	872.2	207
NWC-04	551849	1/30/12		7.34	23.4	914.4	217
NWC-04	551849	2/17/12		7.45	22.9	898.1	203
NWC-04	551849	3/15/12		7.39	23.9	888.2	207
NWC-04	551849	4/25/12		7.16	23.4	870	204

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-04	551849	5/22/12		7.25	23.9	970	178
NWC-04	551849	5/22/12		7.25	23.9	970	178
NWC-04	551849	6/6/12		7.27	24.4	1040	195
NWC-04	551849	7/18/12		7.25	23.7	880	205
NWC-04	551849	8/28/12		7.49	24.2	893.3	208
NWC-04	551849	9/13/12		7.40	23.9	883.7	205
NWC-04	551849	10/10/12		7.48	23.2	883.6	207
NWC-04	551849	11/13/12		7.56	21.7	849.8	211
NWC-04	551849	12/3/12		7.40	23.0	898.6	208
NWC-04	551849	1/10/13		7.37	22.2	903.1	210
NWC-04	551849	2/7/13		7.54	23.0	917.5	228
NWC-04	551849	3/7/13		7.49	22.4	892.4	222
NWC-04	551849	4/17/13		7.43	22.6	903.8	223
NWC-04	551849	5/14/13		7.53	23.2	881.7	214
NWC-04	551849	6/5/13		7.29	33.9	862.7	201
NWC-04	551849	7/12/13		7.29	23.5	897.2	211
NWC-04	551849	7/12/13	DUP	7.29	23.5	897.2	200
NWC-04	551849	8/9/13		7.43	23.5	898.6	207
NWC-04	551849	9/5/13		7.56	23.8	893.6	214
NWC-04	551849	10/10/13		7.39	22.6	873.7	197
NWC-04	551849	11/6/13		7.58	21.8	852.3	202
NWC-04	551849	12/3/13		7.50	23.1	843.4	199
NWC-04	551849	1/13/14		7.12	21.9	885.6	197
NWC-04	551849	2/5/14		7.46	22.4	833.3	198
NWC-04	551849	3/5/14		7.59	22.8	813.3	168
NWC-04	551849	4/7/14		7.49	22.9	834.2	187
NWC-04	551849	5/13/14		7.56	23.4	819.8	186
NWC-04	551849	6/23/14		7.62	24.5	806.7	188
NWC-04	551849	7/10/14		7.57	23.8	826.2	187
NWC-04	551849	8/11/14		7.59	23.5	824.0	187
NWC-04	551849	9/9/14		7.50	24.0	789.5	163
NWC-04	551849	10/13/14		7.39	24.5	802	175
NWC-04	551849	11/14/14		7.46	22.9	835.4	183
NWC-04	551849	12/10/14		7.33	23.3	840.7	189
NWC-04	551849	2/12/15		7.81	20.3	856.4	177
NWC-04	551849	4/9/15		7.41	24.6	823.2	182
NWC-04	551849	7/30/15		7.60	24.5	935.6	195
NWC-04	551849	10/6/15		7.54	23.2	866.8	225
NWC-04	551849	1/12/16		7.57	22.7	811.2	188
NWC-04	551849	4/5/16		7.47	23.9	847.7	192
NWC-04	551849	7/26/16		7.45	23.8	907.3	187
NWC-04	551849	11/2/16		7.32	23.0	900.6	181
NWC-04	551849	1/26/17		7.41	23.1	851.9	195
NWC-04	551849	4/6/17		7.33	23.2	846.8	176
NWC-04	551849	7/18/17		7.23	23.9	844.7	201
NWC-04	551849	11/14/17		7.31	23.3	860.1	193
NWC-04	551849	1/16/18		7.30	23.4	809.6	181
NWC-04	551849	5/2/18		7.41	23.7	854.1	192
NWC-04	551849	7/18/18		7.32	23.2	863.5	195
NWC-04	551849	10/16/18		7.40	23.6	850.1	210
NWC-04	551849	10/16/18	DUP	7.40	23.6	850.1	210
NWC-04	551849	1/7/19		7.38	24.0	848.3	196

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-04	551849	5/14/19		7.39	23.9	845.5	190
NWC-04	551849	5/14/19	DUP	7.39	23.9	845.5	190
NWC-04	551849	7/9/19		7.06	24.9	857.2	195
NWC-04	551849	10/15/19		7.38	24.3	855.4	195
NWC-04	551849	1/16/20		7.59	23.3	863.1	199
NWC-04	551849	7/22/20		7.34	25.0	861.3	200
NWC-04	551849	11/23/20		7.49	24.1	913.5	182
NWC-04	551849	1/12/21		7.41	24.2	840.4	198
NWC-04	551849	4/1/21		7.38	23.6	839.3	194
NWC-04	551849	7/22/21		7.29	23.5	862.5	190
NWC-04	551849	12/14/21		7.34	23.6	864.3	195
NWC-04	551849	2/1/22		7.22	23.7	839.5	181
NWC-04	551849	5/3/22		7.47	24.1	850.7	170
NWC-04	551849	7/14/22		7.42	25.5	819.9	189
NWC-04	551849	12/30/22		7.79	13.6	978.6	181
NWC-04	551849	2/2/23		7.19	21.2	985.3	181
NWC-04	551849	4/25/23		7.20	23.8	931.7	199
NWC-04	551849	8/9/23		7.53	21.8	899.9	174
NWC-04	551849	11/28/23		7.48	23.2	881.2	187
NWC-04	551849	1/26/24		7.44	22.1	875	188
NWC-04	551849	4/19/24		7.33	24.5	868.1	188
NWC-04	551849	4/19/24	DUP	7.33	24.5	868.1	189
NWC-04	551849	8/9/24		7.18	25.1	887.1	185
NWC-04	551849	12/5/24		7.29	23.8	871.1	171
NWC-06	575700	6/9/08		ND	ND	ND	7.2
NWC-06	575700	10/27/08		7.35	23.3	414	6.4
NWC-06	575700	2/12/09		7.54	21.8	306	8
NWC-06	575700	4/23/09		7.30	24.5	354	7.3
NWC-06	575700	7/21/09		7.63	23.5	388	6.4
NWC-06	575700	10/21/09		7.26	23.2	413	8
NWC-06	575700	2/3/10		7.61	20.5	404	7.5
NWC-06	575700	2/3/10	DUP	7.61	20.5	404	7.4
NWC-06	575700	4/21/10		7.54	22.4	387	8.49
NWC-06	575700	7/20/10		7.33	26.0	388.6	8.59
NWC-06	575700	10/19/10		7.49	22.7	394.5	8.32
NWC-06	575700	1/18/11		7.45	23.4	380	8.24
NWC-06	575700	4/6/11		7.42	23.1	388.3	7.76
NWC-06	575700	4/6/11	DUP	7.42	23.1	388.3	7.73
NWC-06	575700	7/15/11		7.09	22.9	394.3	8.36
NWC-06	575700	10/13/11		7.51	22.3	340	8.48
NWC-06	575700	1/30/12		7.47	22.1	402.7	8.44
NWC-06	575700	4/25/12		7.34	22.5	410	7.11
NWC-06	575700	7/18/12		7.39	22.8	380	8.60
NWC-06	575700	10/10/12		7.62	21.9	393.6	9.33
NWC-06	575700	1/10/13		7.47	21.3	429.2	7.55
NWC-06	575700	4/17/13		7.66	21.1	404.1	8.82
NWC-06	575700	7/12/13		7.59	22.4	404.1	8.40
NWC-06	575700	10/10/13		7.56	21.6	403.3	8.38
NWC-06	575700	1/13/14		7.64	21.3	401.8	8.78
NWC-06	575700	4/7/14		7.65	21.7	403.7	8.62
NWC-06	575700	7/10/14		7.68	22.4	405.9	8.97
NWC-06	575700	7/10/14	DUP	7.68	22.4	405.9	8.99

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-06	575700	10/13/14		7.59	23.4	393	8.51
NWC-06	575700	2/12/15		7.60	21.2	405	8.12
NWC-06	575700	2/12/15	DUP	7.60	21.2	405	8.09
NWC-06	575700	7/30/15		7.66	22.6	406.5	8.20
NWC-06	575700	1/12/16		7.74	20.7	397.5	8.50
NWC-06	575700	7/26/16		7.58	21.8	409.1	8.69
NWC-06	575700	1/26/17		7.42	21.3	394.0	8.64
NWC-06	575700	7/18/17		7.35	21.4	405.6	8.35
NWC-06	575700	1/16/18		7.45	21.1	400.4	8.85
NWC-06	575700	7/18/18		7.38	21.2	407.2	8.35
NWC-06	575700	1/7/19		7.42	21.0	405.1	8.54
NWC-06	575700	7/9/19		7.09	22.0	411.3	6.99
NWC-06	575700	1/16/20		7.51	20.8	403.5	8.74
NWC-06	575700	7/22/20		7.47	21.9	412.0	8.75
NWC-06	575700	1/12/21		7.40	21.7	374.9	8.83
NWC-06	575700	7/22/21		7.35	21.1	412.0	9.46
NWC-06	575700	2/1/22		7.35	20.8	400.4	8.37
NWC-06	575700	7/14/22		7.45	22.8	391.4	9.02
NWC-06	575700	7/14/22	DUP	7.45	22.8	391.4	9.06
NWC-06	575700	2/2/23		7.46	21.7	414.4	8.26
NWC-06	575700	8/9/23		7.54	21.4	411.3	9.38
NWC-06	575700	1/26/24		7.55	18.7	409.7	9.45
NWC-06	575700	8/9/24		7.56	21.8	417.0	9.59
OLMOS	224745	1/13/16		7.61	20.4	421.0	8.04
OLMOS	224745	7/14/16		7.58	22.5	445.9	7.97
OLMOS	224745	7/25/17		7.29	20.6	434.7	8.25
OLMOS	224745	7/13/18		7.31	20.6	446.1	7.58
OLMOS	224745	7/13/18	DUP	7.31	20.6	446.1	7.46
OLMOS	224745	7/8/19		7.07	21.5	429.7	6.55
OLMOS	224745	7/8/19	DUP	7.07	21.5	429.7	7.78
OLMOS	224745	8/5/20		7.20	21.3	438.3	7.52
OLMOS	224745	7/29/21		7.35	20.4	428.1	7.93
OLMOS	224745	7/12/22		7.39	20.5	441.3	8.32
OLMOS	224745	8/1/23		7.36	21.9	429.9	8.51
OLMOS	224745	8/12/24		7.53	21.3	427.7	9.59
OSBORN	643436	2/25/08		7.35	22.4	508	16.4
OSBORN	643436	5/13/08		7.22	22.2	576	17.2
OSBORN	643436	7/22/08		7.24	22.9	618	17.7
OSBORN	643436	7/22/08	DUP	7.24	22.9	618	17.5
OSBORN	643436	10/16/08		7.39	22.4	595	15.9
OSBORN	643436	1/20/09		7.33	22.4	469	16
OSBORN	643436	4/7/09		7.25	24.0	542	17
OSBORN	643436	8/18/09		7.16	24.6	643	17.4
OSBORN	643436	10/5/09		7.14	22.9	599	17.9
OSBORN	643436	1/21/10		7.47	19.5	591	15.6
OSBORN	643436	4/19/10		7.60	21.5	601.9	19.3
OSBORN	643436	7/12/10		7.69	24.2	594.0	18.4
OSBORN	643436	7/12/11		7.87	29.8	575.9	19.5
OSBORN	643436	2/3/12		8.15	15.3	390	19.2
OSBORN	643436	1/8/13		7.88	10.5	544.4	20.4
OSBORN	643436	7/8/13		7.56	39.2	510.3	19.2
OSBORN	643436	1/10/14		7.89	18.1	580.5	18.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
OSBORN	643436	7/7/14		7.84	29.2	496.3	18.0
OSBORN	643436	7/11/16		7.56	37.8	515.4	18.6
OSBORN	643436	7/31/17		7.74	25.6	548.4	19.3
OSBORN	643436	7/31/17	DUP	7.74	25.6	548.4	18.7
PALMER	578819	2/14/08		7.91	17.5	435	15.9
PALMER	578819	5/13/08		7.92	22.9	508	16.6
PALMER	578819	7/22/08		7.64	25.8	548	16.2
PALMER	578819	10/16/08		7.61	17.0	527	15.9
PALMER	578819	1/20/09		7.33	19.4	441	14.3
PALMER	578819	4/8/09		7.65	19.1	475	15.4
PALMER	578819	7/8/09		7.47	27.2	521	14.3
PALMER	578819	10/5/09		7.81	22.2	538	16.2
PALMER	578819	1/20/10		7.72	11.9	510	13.8
PALMER	578819	4/22/10		7.97	13.6	520	16.7
PALMER	578819	7/12/10		7.62	30.2	518.8	15.7
PALMER	578819	10/18/10		8.13	22.1	511.9	16.5
PALMER	578819	1/18/11		7.24	17.1	517.0	15.7
PALMER	578819	4/5/11		8.04	19.0	499.2	15.8
PALMER	578819	7/12/11		7.65	26.6	517.6	16.4
PALMER	578819	10/11/11		7.85	22.0	510.4	17
PALMER	578819	2/3/12		7.94	10.0	521.4	17.1
PALMER	578819	4/11/12		7.52	18.7	519.8	17.3
PALMER	578819	7/10/12		7.30	27.9	390	16.6
PALMER	578819	10/3/12		8.09	25.7	526.7	17.6
PALMER	578819	10/3/12	DUP	8.09	25.7	526.7	17.5
PALMER	578819	1/9/13		7.9	17.5	532.8	16.8
PALMER	578819	4/8/13		8.07	18.4	534.1	17
PALMER	578819	7/17/13		7.74	22.3	531.0	17.2
PALMER	578819	10/14/13		8.03	20.1	533.1	16.9
PALMER	578819	1/6/14		7.82	11.9	517.4	17.4
PALMER	578819	4/7/14		7.96	18.3	534.8	17.3
PALMER	578819	7/7/14		8.07	23.9	534.4	18.3
PALMER	578819	10/23/14		7.86	19.6	536.0	17.5
PALMER	578819	7/20/15		7.95	25.9	540.1	17.6
PALMER	578819	7/31/18		7.65	29.6	534.8	17.1
PALMER	578819	7/11/19		8.16	28.0	538.6	16.7
PALMER	578819	8/14/20		7.75	26.5	534.8	16.3
PALMER	578819	8/14/20	DUP	7.75	26.5	534.8	16.3
PALMER	578819	7/20/21		8.41	27.2	488.7	16.8
PALMER	578819	7/8/22		7.85	27.6	534.6	15.5
PALMER	578819	7/27/23		8.23	29.2	510.5	16.0
PALMER	578819	7/31/24		7.90	25.7	509.6	14.5
PANAGAKOS	35-76413	4/21/08		6.80	20.5	1228	410
PANAGAKOS	35-76413	7/21/08		6.95	21.9	1390	444
PANAGAKOS	35-76413	10/13/08		6.86	21.2	1386	480
PANAGAKOS	35-76413	10/13/08	DUP	6.86	21.2	1386	500
PANAGAKOS	35-76413	1/22/09		6.92	19.7	997	397
PANAGAKOS	35-76413	4/9/09		6.81	21.7	1228	431
PANAGAKOS	35-76413	4/9/09	DUP	6.81	21.7	1228	426
PANAGAKOS	35-76413	7/9/09		6.89	22.3	1469	490
PANAGAKOS	35-76413	10/6/09		6.83	21.1	1328	472
PANAGAKOS	35-76413	1/21/10		7.06	18.8	1291	318

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
PANAGAKOS	35-76413	4/20/10		7.25	21.0	1528	608
PANAGAKOS	35-76413	7/20/10		6.90	24.0	1560	706
PANAGAKOS	35-76413	10/18/10		6.38	22.1	1530	568
PANAGAKOS	35-76413	7/14/11		6.93	23.3	1070	223
PANAGAKOS	35-76413	8/25/11		7.17	23.4	1170	222
PANAGAKOS	35-76413	2/6/12		6.98	20.8	1017	166
PANAGAKOS	35-76413	2/29/12		7.09	20.3	1080	362
PANAGAKOS	35-76413	3/15/12		7.02	21.4	1138	282
PANAGAKOS	35-76413	4/12/12		6.90	20.9	1265	346
PANAGAKOS	35-76413	4/12/12	DUP	6.90	20.9	1265	352
PANAGAKOS	35-76413	7/9/12		6.82	22.2	1140	292
PANAGAKOS	35-76413	11/27/12		7.51	20.1	1164	274
PANAGAKOS	35-76413	2/6/13		7.05	19.9	1054	212
PANAGAKOS	35-76413	4/9/13		7.24	19.7	1105	232
PANAGAKOS	35-76413	7/10/13		7.26	21.4	1218	329
PANAGAKOS	35-76413	10/15/13		7.14	20.5	1109	240
PANAGAKOS	35-76413	1/10/14		7.23	19.6	1079	227
PANAGAKOS	35-76413	4/16/14		7.17	20.4	1103	228
PANAGAKOS	35-76413	7/17/14		7.13	21.4	1357	467
PANAGAKOS	35-76413	10/16/14		6.9	22.1	1104	193
PANAGAKOS	35-76413	1/26/15		7.11	19.6	1349	428
PANAGAKOS	35-76413	7/27/15		7.03	22.2	1445	469
PANAGAKOS	35-76413	1/11/16		7.18	18.9	1402	443
PANAGAKOS	35-76413	1/11/16	DUP	7.18	18.9	1402	452
PANAGAKOS	35-76413	2/24/17		7.19	19.1	1270	218
PANAGAKOS	35-76413	2/24/17	DUP	7.19	19.1	1270	217
PANAGAKOS	35-76413	7/17/17		7.13	20.2	1219	232
PANAGAKOS	35-76413	1/18/18		7.08	19.0	1151	223
PANAGAKOS	35-76413	1/18/18	DUP	7.08	19.0	1151	226
PANAGAKOS	35-76413	7/30/18		6.96	20.5	1389	384
PANAGAKOS	35-76413	1/15/19		6.91	18.5	1464	444
PANAGAKOS	35-76413	7/8/19		6.90	21.4	1480	467
PANAGAKOS	35-76413	7/8/19	DUP	6.90	21.4	1480	476
PANAGAKOS	35-76413	1/14/20		7.29	17.7	1450	457
PANAGAKOS	35-76413	1/14/20	DUP	7.29	17.7	1450	461
PANAGAKOS	35-76413	8/13/20		7.21	20.6	1254	231
PANAGAKOS	35-76413	1/11/21		7.20	20.2	1189	227
PANAGAKOS	35-76413	7/22/21		7.12	21.4	1126	185
PANAGAKOS	35-76413	1/31/22		7.23	19.5	1173	245
PANAGAKOS	35-76413	7/7/22		7.02	22.4	1408	463
PANAGAKOS	35-76413	2/3/23		7.20	17.8	1490	548
PANAGAKOS	35-76413	7/25/23		7.36	21.7	1194	244
PANAGAKOS	35-76413	1/17/24		7.33	18.4	1094	193
PANAGAKOS	35-76413	7/31/24		7.52	20.7	1082	174
PARRA	576415	2/11/08		7.08	21.8	1067	360
PARRA	576415	5/15/08		7.10	21.8	1200	405
PARRA	576415	7/31/08		7.00	22.4	1248	423
PARRA	576415	7/31/08	DUP	7.00	22.4	1248	404
PARRA	576415	10/20/08		7.07	22.9	1246	387
PARRA	576415	2/13/09		7.24	22.1	965	405
PARRA	576415	4/20/09		7.10	22.6	971	372
PARRA	576415	7/20/09		7.17	23.9	1174	375

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
PARRA	576415	10/20/09		6.80	22.5	1188	388
PARRA	576415	2/1/10		7.07	21.5	1197	353
PARRA	576415	4/22/10		6.91	20.3	1219	417
PARRA	576415	7/14/10		7.13	22.2	1201	403
PARRA	576415	7/14/10	DUP	7.13	22.2	1201	391
PARRA	576415	10/20/10		7.51	21.4	1270	411
PARRA	576415	1/19/11		7.49	20.8	1130	391
PARRA	576415	4/4/11		6.90	22.6	1207	382
PARRA	576415	7/12/11		6.76	23.7	1156	404
PARRA	576415	10/12/11		7.44	22.3	1070	406
PARRA	576415	2/7/12		7.64	21.4	1212	428
PARRA	576415	4/13/12		7.49	21.1	1204	402
PARRA	576415	4/13/12	DUP	7.49	21.1	1204	390
PARRA	576415	7/18/12		7.03	22.6	1210	418
PARRA	576415	7/18/12	DUP	7.03	22.6	1210	419
PARRA	576415	10/9/12		7.30	21.3	1209	428
PARRA	576415	1/11/13		7.64	20.3	1217	413
PARRA	576415	4/11/13		7.29	21.2	1206	427
PARRA	576415	7/17/13		7.21	21.9	1212	411
PARRA	576415	10/18/13		7.18	21.3	1212	406
PARRA	576415	1/8/14		7.21	20.8	1221	437
PARRA	576415	4/15/14		7.18	21.5	1213	416
PARRA	576415	7/21/14		7.30	22.4	1193	432
PARRA	576415	10/6/14		7.12	21.5	1133	413
PARRA	576415	8/3/15		7.24	22.3	1193	391
PARRA	576415	7/22/16		7.17	22.6	1151	392
PARRA	576415	7/25/17		6.98	20.9	1194	426
PARRA	576415	7/10/19		6.83	21.6	1170	382
PARRA	576415	7/22/21		7.00	21.2	1137	360
PARRA	576415	7/28/23		7.26	22.1	1083	329
PIONKE 395	613395	2/6/08		7.53	19.9	910	394
PIONKE 395	613395	5/7/08		7.08	21.4	1100	391
PIONKE 395	613395	7/17/08		6.99	21.9	1209	420
PIONKE 395	613395	10/27/08		7.03	20.8	1175	460
PIONKE 395	613395	1/29/09		7.13	19.9	847	385
PIONKE 395	613395	4/14/09		7.58	20.7	1053	411
PIONKE 395	613395	7/13/09		7.35	21.5	1165	472
PIONKE 395	613395	10/7/09		7.43	21.1	1100	403
PIONKE 395	613395	3/8/10		7.72	18.6	1201	406
PIONKE 395	613395	4/26/10		7.22	21.9	1224	438
PIONKE 395	613395	7/15/10		7.32	22.3	1158	474
PIONKE 395	613395	10/18/10		7.33	21.3	1277	473
PIONKE 395	613395	10/18/10	DUP	7.33	21.3	1277	487
PIONKE 395	613395	1/19/11		7.32	19.9	1222	471
PIONKE 395	613395	4/8/11		7.13	19.2	1232	467
PIONKE 395	613395	7/12/11		7.30	23.8	1226	500
PIONKE 395	613395	10/11/11		6.98	20.8	1100	502
PIONKE 395	613395	2/1/12		7.25	17.5	1230	481
PIONKE 395	613395	2/1/12	DUP	7.25	17.5	1230	495
PIONKE 395	613395	4/12/12		7.17	22.1	1218	508
PIONKE 395	613395	7/11/12		6.59	22.9	1280	439
PIONKE 395	613395	10/17/12		7.16	22.3	1136	419

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
PIONKE 517	221517	9/18/12		7.91	23.4	395.8	14
PIONKE 517	221517	10/11/12		7.75	22.8	394.7	14.9
PIONKE 517	221517	1/9/13		7.79	22.6	389.9	14.3
PIONKE 517	221517	4/17/13		7.74	22.1	391.9	14.6
PIONKE 517	221517	7/16/13		7.84	22.9	391.5	13.9
PIONKE 517	221517	10/17/13		7.73	22.7	391.5	13.8
PIONKE 517	221517	2/5/14		7.75	21.5	394.2	14.9
PIONKE 517	221517	4/9/14		7.71	22.9	400.9	14.0
PIONKE 517	221517	7/11/14		7.76	23.7	388.9	14.6
PIONKE 517	221517	10/7/14		7.46	25.8	406	14.0
PIONKE 517	221517	7/22/15		7.79	23.3	392.1	13.9
PIONKE 517	221517	7/26/16		7.67	23.2	389.2	14.1
PIONKE 517	221517	7/18/17		7.44	22.5	388.7	13.2
PIONKE 517	221517	7/24/18		7.53	22.3	385.7	13.4
PIONKE 517	221517	7/11/19		7.19	23.0	393.7	13.4
PIONKE 517	221517	8/12/20		7.48	22.8	393.1	13.2
PIONKE 517	221517	7/23/21		7.46	22.0	388.9	14.7
PIONKE 517	221517	7/12/22		7.49	25.5	379.0	13.6
PIONKE 517	221517	7/21/23		7.87	23.8	384.4	12.9
PIONKE 517	221517	7/24/24		7.61	24.5	388	13.6
POOL	509518	2/20/08		7.95	20.9	497	134
POOL	509518	5/19/08		7.40	22.2	585	122
POOL	509518	7/31/08		7.47	22.3	599	117
POOL	509518	10/21/08		7.51	21.4	598	120
POOL	509518	2/13/09		7.62	20.8	473	141
POOL	509518	4/21/09		7.73	22.6	470	124
POOL	509518	7/20/09		7.76	22.9	579	122
POOL	509518	10/20/09		7.22	21.2	577	122
POOL	509518	2/24/10		7.56	22.4	577	110
POOL	509518	4/22/10		7.75	20.2	606.5	130
POOL	509518	7/14/10		7.38	21.7	580.9	117
POOL	509518	10/20/10		7.79	21.3	620	115
POOL	509518	1/20/11		7.71	20.5	530	112
POOL	509518	1/20/11	DUP	7.71	20.5	530	114
POOL	509518	4/6/11		7.37	21.6	567.4	114
POOL	509518	8/1/18		7.47	24.2	580.9	113
POOL	509518	7/10/19		6.78	29.1	588.6	118
POOL	509518	8/10/20		7.40	25.6	581.5	108
POOL	509518	7/20/21		7.55	24.2	562.8	109
POOL	509518	8/9/23		7.53	21.9	559.6	107
POOL	509518	8/16/24		7.45	22.0	552.0	99.7
POWER	624535	2/12/08		7.11	18.9	428	15.5
POWER	624535	7/22/08		7.10	21.7	795	20.2
POWER 639	222639	1/16/14		7.38	20.9	1004	234
POWER 639	222639	2/5/14		7.35	20.8	1004	328
POWER 639	222639	3/5/14		7.39	21.3	991.4	187
POWER 639	222639	4/15/14		7.38	21.6	999.4	249
POWER 639	222639	5/13/14		7.40	21.4	990.9	206
POWER 639	222639	6/23/14		7.44	21.9	886.4	117
POWER 639	222639	7/17/14		7.40	22.1	861.3	168
POWER 639	222639	8/11/14		7.50	21.8	864.9	136
POWER 639	222639	9/9/14		7.49	21.7	850.4	105

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
POWER 639	222639	1/27/15		7.27	22.0	922	291
POWER 639	222639	3/10/15		7.35	21.9	1032	265
POWER 639	222639	4/28/15		7.43	20.6	1002	308
POWER 639	222639	5/14/15		7.32	21.3	991.4	269
POWER 639	222639	6/11/15		7.26	22.0	1019	308
POWER 639	222639	7/30/15		7.33	22.3	1014	287
POWER 639	222639	1/14/16		7.46	19.7	985.7	298
POWER 639	222639	7/27/16		7.27	22.2	992.0	301
POWER 639	222639	1/26/17		7.14	20.9	989.9	317
POWER 639	222639	7/12/17		7.16	20.8	1010	244
POWER 639	222639	1/10/18		7.25	20.7	856.9	191
POWER 639	222639	7/25/18		7.35	20.8	814.9	205
POWER 639	222639	1/14/19		7.20	20.6	828.4	174
POWER 639	222639	7/12/19		7.16	21.7	510.4	90.8
POWER 639	222639	1/15/20		7.47	20.5	748.9	180
POWER 639	222639	8/13/20		7.37	21.7	753.5	173
POWER 639	222639	1/13/21		7.29	21.4	836.8	218
POWER 639	222639	7/19/21		7.35	20.7	807.2	185
POWER 639	222639	1/31/22		7.64	19.8	773.5	159
POWER 639	222639	7/7/22		7.38	24.0	828.4	188
POWER 639	222639	1/25/23		7.37	19.6	824.2	215
POWER 639	222639	7/20/23		7.51	22.5	810.8	200
POWER 639	222639	1/16/24		7.57	20.6	791.3	171
POWER 639	222639	8/13/24		7.57	21.9	781.9	217
POWER 639	222639	8/13/24	DUP	7.57	21.9	781.9	160
RAMIREZ	216425	2/4/08		7.47	21.7	408	7.6
RAMIREZ	216425	5/6/08		7.19	22.7	405	8.3
RAMIREZ	216425	7/17/08		7.32	24.5	439	8.8
RAMIREZ	216425	10/27/08		7.41	22.2	412	7.3
RAMIREZ	216425	1/29/09		7.24	22.2	301	8.3
RAMIREZ	216425	4/16/09		7.49	22.4	344	7.6
RAMIREZ	216425	7/10/09		7.52	23.9	411	6.4
RAMIREZ	216425	10/6/09		7.30	23.8	388	8.4
RAMIREZ	216425	1/25/10		7.48	22.4	390	7.8
RAMIREZ	216425	4/21/10		7.45	22.6	397	9.04
RAMIREZ	216425	7/21/10		7.38	25.1	420	8.98
RAMIREZ	216425	10/19/10		7.91	23.7	450	10.8
RAMIREZ	216425	1/18/11		7.52	23.1	380	8.18
RAMIREZ	216425	4/11/11		7.24	23.2	408.5	8.65
RAMIREZ	216425	7/18/11		7.27	25.4	402.6	8.44
RAMIREZ	216425	10/12/11		7.40	23.3	412.7	8.55
RAMIREZ	216425	1/30/12		7.38	22.3	412.2	8.80
RAMIREZ	216425	4/10/12		7.40	23.2	404.5	8.70
RAMIREZ	216425	7/6/12		7.32	24.2	415.7	8.97
RAMIREZ	216425	10/8/12		7.61	22.5	412.0	9.14
RAMIREZ	216425	10/8/12	DUP	7.61	22.5	412.0	9.07
RAMIREZ	216425	1/17/13		7.52	22.2	409.6	8.82
RAMIREZ	216425	4/19/13		7.6	22.1	413.9	8.63
RAMIREZ	216425	7/15/13		7.58	23.6	416.2	8.19
RAMIREZ	216425	10/7/13		7.68	22.6	412.7	8.37
RAMIREZ	216425	1/13/14		7.63	21.9	409.8	8.79
RAMIREZ	216425	4/14/14		7.55	22.2	417.5	8.67

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
RAMIREZ	216425	7/10/14		7.58	23.2	413.5	8.92
RAMIREZ	216425	10/17/14		7.36	23	422.0	8.67
RAMIREZ	216425	7/21/15		7.54	23.7	414.6	8.46
RAMIREZ	216425	7/14/16		7.55	23.6	420.5	8.57
RAMIREZ	216425	7/26/17		7.37	22.0	414.5	9.00
RAMIREZ	216425	7/25/18		7.35	22.1	420.2	8.35
RAMIREZ	216425	7/9/19		6.95	22.8	432.8	6.67
RAMIREZ	216425	8/6/20		7.31	22.6	423.1	7.96
RAMIREZ	216425	7/29/21		7.30	21.6	409.2	8.82
RAMIREZ	216425	7/29/21	DUP	7.30	21.6	409.2	8.68
RAMIREZ	216425	7/7/22		7.55	21.8	405.8	9.12
RAMIREZ	216425	7/21/23		7.49	21.7	424.4	7.75
RAMIREZ	216425	8/5/24		7.50	23.1	420.3	9.30
RAY	803772	2/15/08		7.30	19.1	1540	159
RAY	803772	4/21/08		6.92	21.3	1418	125
RAY	803772	5/13/08		7.05	20.9	1418	123
RAY	803772	6/23/08		6.87	21.1	1593	130
RAY	803772	7/29/08		6.98	21.8	1411	120
RAY	803772	8/28/08		M	21.1	1519	129
RAY	803772	9/23/08		6.90	22.2	1519	125
RAY	803772	10/22/08		6.96	20.8	1604	145
RAY	803772	1/20/09		6.92	20.6	1355	88
RAY	803772	4/8/09		6.85	21.4	1759	178
RAY	803772	7/9/09		6.93	22.3	1434	126
RAY	803772	10/7/09		6.98	21.3	1288	127
RAY	803772	1/26/10		6.82	20.6	1352	125
RAY	803772	4/20/10		7.14	21.5	1318	134
RAY	803772	7/14/10		7.11	23.8	1313	137
RAY	803772	10/20/10		7.14	19.6	1368	127
RAY	803772	1/17/11		7.04	20.8	1451	132
RAY	803772	1/17/11	DUP	7.04	20.8	1451	125
RAY	803772	4/5/11		7.03	20.8	1387	132
RAY	803772	7/11/11		7.07	22.8	1345	126
RAY	803772	10/12/11		7.06	21.6	1250	130
RAY	803772	1/31/12		7.28	20.5	1360	131
RAY	803772	4/11/12		7.03	20.6	1359	131
RAY	803772	7/6/12		7.11	22.1	1430	129
RAY	803772	10/3/12		7.12	21.1	1464	130
RAY	803772	1/17/13		7.05	19.5	1527	126
RAY	803772	1/17/13	DUP	7.05	19.5	1527	140
RAY	803772	4/8/13		7.32	20	1476	131
RAY	803772	7/9/13		7.18	21.4	1451	128
RAY	803772	10/15/13		7.13	20.8	1487	135
RAY	803772	1/14/14		7.25	19.2	1433	133
RAY	803772	4/8/14		7.09	20.8	1502	146
RAY	803772	7/8/14		7.14	21.4	1409	147
RAY	803772	10/22/14		6.88	21.6	1422	147
RAY	803772	8/3/15		7.22	21.4	1360	133
RAY	803772	7/12/16		7.03	21.6	1419	133
RAY	803772	7/26/17		6.93	19.8	1288	142
RAY	803772	7/31/18		6.89	19.8	1493	138
RAY	803772	7/31/18	DUP	6.89	19.8	1493	139

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
RAY	803772	7/19/19		6.86	19.7	1465	132
RAY	803772	8/13/20		6.80	20.5	1362	136
RAY	803772	7/23/21		6.88	20.5	1701	209
RAY	803772	7/23/21	DUP	6.88	20.5	1701	209
RAY	803772	7/6/22		7.17	21.4	1509	146
RAY	803772	7/26/23		6.95	21.5	1577	148
RAY	803772	7/25/24		6.98	21.7	1458	138
ROGERS 596	573596	10/19/09		6.89	23.3	1360	590
ROGERS 596	573596	11/5/09		6.79	21.9	1418	540
ROGERS 596	573596	2/25/10		6.99	19.6	1603	520
ROGERS 596	573596	4/22/10		7.21	18.2	1641	710
ROGERS 596	573596	1/18/18		6.85	18.9	1431	655
ROGERS 596	573596	7/26/18		6.85	22.9	1644	735
ROGERS 596	573596	1/14/19		6.83	17.9	1651	757
ROGERS 596	573596	7/22/19		6.84	25.9	1714	835
ROGERS 596	573596	1/22/20		6.68	19.4	1621	831
ROGERS 596	573596	8/11/20		6.86	23.1	1518	666
ROGERS 596	573596	7/22/21		6.90	22.3	1439	651
ROGERS 596	573596	2/1/22		6.93	17.9	1537	663
ROGERS 596	573596	7/8/22		6.96	23.0	1386	541
ROGERS 596	573596	1/13/23		ND	18.3	1497	621
ROGERS 596	573596	7/20/23		6.89	27.8	1487	807
ROGERS 596	573596	1/15/24		7.07	16.1	1458	581
ROGERS 596	573596	7/26/24		6.91	25.5	1408	521
ROGERS 803	641803	2/7/08		7.45	18.6	601	138
ROGERS 803	641803	4/21/08		7.32	21.4	552	128
ROGERS 803	641803	5/8/08		7.14	21.2	622	141
ROGERS 803	641803	6/23/08		7.06	22.9	660	129
ROGERS 803	641803	7/29/08		6.78	23.1	339	134
ROGERS 803	641803	8/28/08		7.18	21.6	635	128
ROGERS 803	641803	9/23/08		7.24	21.9	599	133
ROGERS 803	641803	10/22/08		7.36	21.3	650	144
ROGERS 803	641803	2/10/09		7.42	17.9	475	141
ROGERS 803	641803	4/29/09		7.52	21.9	506	211
ROGERS 803	641803	8/3/09		7.39	24.2	674	150
ROGERS 803	641803	7/16/10		7.46	23.9	643.4	169
ROGERS 803	641803	10/19/10		7.32	21.1	643.8	154
ROGERS 803	641803	10/19/10	DUP	7.32	21.1	643.8	154
ROGERS 803	641803	1/20/11		7.44	18.1	610	143
ROGERS 803	641803	4/8/11		7.30	20.2	658.2	160
ROGERS 803	641803	7/14/11		7.12	23.5	653.5	166
ROGERS 803	641803	10/12/11		7.41	21.8	665.3	175
ROGERS 803	641803	1/30/12		7.40	20.0	580	171
ROGERS 803	641803	4/23/12		7.32	23.9	720	166
ROGERS 803	641803	7/13/12		7.26	24.0	820	171
ROGERS 803	641803	7/13/12	DUP	7.26	24.0	820	166
ROGERS 803	641803	10/10/12		7.41	24.3	671.4	177
ROGERS 803	641803	1/15/13		7.37	16.9	681.1	174
ROGERS 803	641803	4/15/13		7.57	23.8	698	190
ROGERS 803	641803	7/15/13		7.39	23.6	697.8	184
ROGERS 803	641803	10/16/13		7.47	25.4	710.6	185
ROGERS 803	641803	1/9/14		7.46	21.4	701.8	190

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
ROGERS 803	641803	4/11/14		7.52	26.1	711.3	190
ROGERS 803	641803	7/18/14		7.48	24.9	709.2	192
ROGERS 803	641803	9/30/17		7.03	21.5	1396	621
ROGERS E	216018	2/4/08		7.40	21.0	435	4.6
ROGERS E	216018	5/7/08		7.18	22.2	415	5.9
ROGERS E	216018	7/17/08		7.28	23.0	446	7.1
ROGERS E	216018	10/27/08		7.38	21.4	434	15.7
ROGERS E	216018	2/10/09		7.51	20.7	322	5.4
ROGERS E	216018	4/16/09		7.48	22.0	361	4.9
ROGERS E	216018	7/13/09		7.34	22.6	420	3.8
ROGERS E	216018	10/6/09		7.31	22.3	407	5.8
ROGERS E	216018	1/25/10		7.52	20.6	414	5.1
ROGERS E	216018	4/21/10		7.44	21.1	421	6.04
ROGERS E	216018	7/21/10		7.37	23.8	430	6.47
ROGERS E	216018	10/19/10		7.80	22.8	460	5.92
ROGERS E	216018	1/18/11		7.39	21.5	390	5.50
ROGERS E	216018	4/11/11		7.19	22.7	427.2	6.13
ROGERS E	216018	7/18/11		7.12	24.3	418.5	6.00
ROGERS E	216018	10/13/11		7.52	22.2	370	5.99
ROGERS E	216018	1/30/12		7.38	20.8	427.2	6.22
ROGERS E	216018	4/10/12		7.37	22.1	421.8	6.31
ROGERS E	216018	7/17/12		7.32	22.7	420	5.85
ROGERS E	216018	10/17/12		7.55	21.7	429.0	6.04
ROGERS E	216018	1/17/13		7.46	21.5	431.5	6.01
ROGERS E	216018	4/18/13		7.63	21.3	433.5	6.26
ROGERS E	216018	7/17/13		7.59	22.1	427.7	6.05
ROGERS E	216018	7/17/13	DUP	7.59	22.1	427.7	6.28
ROGERS E	216018	10/10/13		7.51	21.9	436.9	5.8
ROGERS E	216018	1/7/14		7.49	21.0	434.0	6.24
ROGERS E	216018	4/14/14		7.59	21.4	431.2	6.11
ROGERS E	216018	7/10/14		7.54	22.4	428.5	6.41
ROGERS E	216018	10/17/14		7.31	22.6	452	5.81
ROGERS E	216018	7/30/15		7.57	22.9	430.3	5.90
ROGERS E	216018	7/14/16		7.58	22.7	430.2	6.71
ROGERS E	216018	7/26/17		7.31	21.3	429.3	6.86
ROGERS E	216018	2/23/18		7.32	21.0	423.0	6.20
ROGERS E	216018	7/13/18		7.33	20.8	430.3	6.32
ROGERS E	216018	1/11/19		7.27	20.6	418.5	6.51
ROGERS E	216018	7/12/19		7.31	20.8	429.5	6.76
ROGERS E	216018	1/20/20		6.77	21.1	432.8	6.30
ROGERS E	216018	8/7/20		7.35	21.5	431.2	6.62
ROGERS E	216018	1/12/21		7.33	21.3	437.8	6.79
ROGERS E	216018	7/14/21		7.34	20.6	446.7	8.94
ROGERS E	216018	2/1/22		7.46	20.4	455.1	7.65
ROGERS E	216018	7/11/22		7.43	22.0	470.3	8.65
ROGERS E	216018	1/24/23		7.42	20.0	501.8	9.61
ROGERS E	216018	7/21/23		7.54	22.3	486.0	8.58
ROGERS E	216018	1/18/24		7.44	20.3	480.8	9.60
ROGERS E	216018	8/6/24		7.47	21.4	476.6	10.8
ROGERS E	216018	8/6/24	DUP	7.47	21.4	476.6	10.7
RUIZ	531770	2/5/08		7.73	18.2	445	263
RUIZ	531770	5/15/08		7.23	25.9	965	265

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
RUIZ	531770	7/30/08		6.99	22.1	999	243
RUIZ	531770	10/20/08		7.04	22.0	995	238
RUIZ	531770	2/12/09		6.94	20.9	748	254
RUIZ	531770	4/21/09		7.18	22.3	759	227
RUIZ	531770	8/3/09		7.05	22.9	1029	221
RUIZ	531770	10/28/09		7.09	20.6	920	227
RUIZ	531770	2/1/10		7.08	20.9	934	236
RUIZ	531770	4/26/10		7.01	22.5	920.1	240
RUIZ	531770	7/20/10		7.08	22.5	880	240
RUIZ	531770	10/20/10		7.52	20.7	970	231
RUIZ	531770	1/18/11		7.19	20.2	860	213
RUIZ	531770	4/8/11		7.09	19.8	923.3	236
RUIZ	531770	8/26/11		6.85	22.6	800	220
RUIZ	531770	10/13/11		7.19	21.5	810	230
RUIZ	531770	2/7/12		7.28	20.7	915.6	230
RUIZ	531770	2/7/12	DUP	7.28	20.7	915.6	228
RUIZ	531770	4/13/12		7.04	21.1	896.5	203
RUIZ	531770	7/18/12		6.87	21.6	900	214
RUIZ	531770	10/9/12		7.18	21.4	890.6	229
RUIZ	531770	1/11/13		7.21	20.7	895.8	219
RUIZ	531770	1/11/13	DUP	7.21	20.7	895.8	211
RUIZ	531770	4/11/13		7.26	21.9	876.8	229
RUIZ	531770	7/25/13		7.13	21.4	887.3	228
RUIZ	531770	10/17/13		7.23	20.8	891.9	210
RUIZ	531770	1/8/14		7.32	20.5	886.8	220
RUIZ	531770	4/15/14		7.26	21.2	873.5	215
RUIZ	531770	8/11/14		7.32	21.2	869.2	221
RUIZ	531770	10/21/14		7.09	21.4	886	209
RUIZ	531770	10/21/14	DUP	7.09	21.4	886	212
RUIZ	531770	1/27/15		7.14	21.4	853	215
RUIZ	531770	7/30/15		7.2	21.9	865.8	191
RUIZ	531770	1/12/16		7.29	19.9	831.3	190
RUIZ	531770	7/25/16		7.17	21.2	854.5	183
RUIZ	531770	1/26/17		7.09	20.4	844.2	194
RUIZ	531770	7/25/17		7.06	20.5	850.8	190
RUIZ	531770	1/16/18		7.03	20.1	829.4	185
RUIZ	531770	7/24/18		7.02	20.7	827.2	180
RUIZ	531770	1/15/19		7.00	19.8	824.6	170
RUIZ	531770	7/10/19		6.86	20.9	828.4	169
RUIZ	531770	1/16/20		7.20	19.6	809.9	176
RUIZ 146	232146	8/12/20		7.12	22.1	673.5	117
RUIZ 146	232146	1/12/21		7.22	21.1	632.6	103
RUIZ 146	232146	7/21/21		7.29	20.9	635.0	102
RUIZ 146	232146	2/1/22		7.32	20.4	618.3	89.7
RUIZ 146	232146	7/12/22		7.27	23.0	620.1	94.1
RUIZ 146	232146	1/13/23		ND	21.0	623.5	92.5
RUIZ 146	232146	7/21/23		7.35	20.9	629.0	93.4
RUIZ 146	232146	1/16/24		7.40	19.9	609.8	77.7
RUIZ 146	232146	8/6/24		7.32	21.3	636.3	104
SCHWARTZ	210865	2/8/08		7.52	21.5	506	158
SCHWARTZ	210865	4/21/08		7.23	21.7	563	122
SCHWARTZ	210865	5/19/08		7.38	22.4	629	130

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
SCHWARTZ	210865	6/23/08		7.02	22.1	674	129
SCHWARTZ	210865	7/29/08		7.25	22.4	955	245
SCHWARTZ	210865	8/28/08		M	22.3	669	131
SCHWARTZ	210865	9/23/08		7.27	22.2	607	124
SCHWARTZ	210865	10/22/08		7.31	22.0	653	135
SCHWARTZ	210865	11/19/08		7.38	21.1	612	140
SCHWARTZ	210865	12/17/08		6.78	21.6	472	144
SCHWARTZ	210865	1/29/09		7.08	22.0	475	124
SCHWARTZ	210865	2/23/09		7.33	22.1	610	123
SCHWARTZ	210865	4/17/09		7.46	22.2	520	120
SCHWARTZ	210865	7/10/09		7.52	22.8	651	116
SCHWARTZ	210865	7/10/09	DUP	7.52	22.8	651	117
SCHWARTZ	210865	10/6/09		7.27	22.5	613	120
SCHWARTZ	210865	1/22/10		7.79	19.5	664	133
SCHWARTZ	210865	4/21/10		7.50	20.9	638	129
SCHWARTZ	210865	7/21/10		7.43	22.0	650	134
SCHWARTZ	210865	10/19/10		7.76	21.2	710	147
SCHWARTZ	210865	1/17/11		7.15	21.2	620	116
SCHWARTZ	210865	4/11/11		7.20	21.5	656.9	128
SCHWARTZ	210865	7/18/11		7.36	23.7	612.4	116
SCHWARTZ	210865	10/12/11		7.35	22.4	635.8	124
SCHWARTZ	210865	2/6/12		7.32	21.3	629.7	116
SCHWARTZ	210865	2/6/12	DUP	7.32	21.3	629.7	114
SCHWARTZ	210865	4/10/12		7.48	21.6	626.1	120
SCHWARTZ	210865	7/16/12		7.31	21.9	710	117
SCHWARTZ	210865	10/17/12		7.48	21.6	645	121
SCHWARTZ	210865	3/13/13		7.57	20.7	623.6	118
SCHWARTZ	210865	5/14/13		7.61	21.5	629.7	112
SCHWARTZ	210865	7/15/13		7.49	22.1	770.2	198
SCHWARTZ	210865	10/14/13		7.55	20.9	633.3	109
SCHWARTZ	210865	1/13/14		7.61	20.6	663.1	125
SCHWARTZ	210865	4/9/14		7.48	21.5	635.9	110
SCHWARTZ	210865	7/18/14		7.45	21.8	790.5	216
SCHWARTZ	210865	10/22/14		7.28	22	646.0	119
SCHWARTZ	210865	2/3/15		7.35	22.4	714	125
SCHWARTZ	210865	2/3/15	DUP	7.35	22.4	714	126
SCHWARTZ	210865	8/4/15		7.49	22.5	641.8	109
SCHWARTZ	210865	1/14/16		7.55	20.6	678.3	134
SCHWARTZ	210865	7/27/16		7.51	22.3	621.3	103
SCHWARTZ	210865	7/27/16	DUP	7.51	22.3	621.3	102
SCHWARTZ	210865	1/24/17		7.33	20.3	650.6	120
SCHWARTZ	210865	7/11/17		7.29	20.6	627.0	103
SCHWARTZ	210865	7/11/17	DUP	7.29	20.6	627.0	102
SCHWARTZ	210865	1/9/18		7.26	20.5	619.5	97.2
SCHWARTZ	210865	7/11/18		7.33	20.4	622.9	96.2
SCHWARTZ	210865	1/9/19		7.24	20.4	671.2	131
SCHWARTZ	210865	1/22/20		6.86	21.0	721.7	155
SCHWARTZ	210865	7/22/20		7.26	21.2	686.1	138
SCHWARTZ	210865	1/8/21		7.28	21.0	709.3	156
SCHWARTZ	210865	1/8/21	DUP	7.28	21.0	709.3	148
SCHWARTZ	210865	7/20/21		7.30	20.4	726.5	156
SCHWARTZ	210865	2/1/22		7.38	17.3	732.7	162

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
SCHWARTZ	210865	7/13/22		7.35	22.8	715.2	145
SCHWARTZ	210865	1/13/23		ND	21.1	733.3	161
SCHWARTZ	210865	1/13/23	DUP	ND	21.1	733.3	159
SCHWARTZ	210865	7/20/23		7.33	23.7	659.6	113
SCHWARTZ	210865	7/20/23	DUP	7.33	23.7	659.6	115
SCHWARTZ	210865	1/16/24		7.46	20.0	690.0	127
SCHWARTZ	210865	7/25/24		7.40	24.8	703	141
SRC	211345	4/23/08		7.57	25.8	380	19
SRC	211345	8/5/08		7.40	27.2	452	15.4
SWAN	NR	2/13/08		7.28	20.7	467	24.1
SWAN	NR	5/14/08		7.24	21.2	479	23.7
SWAN	NR	7/24/08		7.35	22.4	506	18
SWAN	NR	10/16/08		7.32	20.7	488	19
SWAN	NR	1/20/09		7.05	20.4	391	19.8
SWAN	NR	4/7/09		7.21	21.5	447	19.9
SWAN	NR	7/8/09		7.18	23.1	473	18.5
SWAN	NR	10/5/09		7.18	21.4	496	19.7
SWAN	NR	1/21/10		7.49	19.5	501	18.4
SWAN	NR	4/21/10		7.42	20.3	512.1	20.9
SWAN	NR	7/19/10		7.13	23.8	518.6	22.2
SWAN	NR	1/18/11		7.19	17.8	483.6	18.7
SWAN	NR	7/12/11		7.05	22.4	478.2	19.1
SWAN	NR	2/3/12		7.40	20.5	484.5	20.1
SWAN	NR	2/3/12	DUP	7.40	20.5	484.5	19.5
SWAN	NR	7/10/12		7.00	22.7	370	19.4
SWAN	NR	1/11/13		7.38	20.0	489.0	19.3
SWAN	NR	7/8/13		7.45	22.8	489.7	19.4
SWAN	NR	1/10/14		7.65	19.7	428.6	19.2
SWAN	NR	7/7/14	DUP	7.44	21.8	464.7	19.4
SWAN	NR	7/20/15		7.45	23.0	491.2	18.8
SWAN	NR	7/20/15	DUP	7.45	23.0	491.2	18.9
SWAN	NR	7/11/16		7.30	22.6	504.7	18.6
SWAN	NR	7/27/17		7.13	20.9	500.8	18.5
SWAN	NR	7/31/18		7.10	20.9	557.7	20.1
TERRY	229470	3/18/19		7.46	20.6	419.4	6.63
TERRY	229470	7/19/19		7.31	20.1	447.3	6.25
TERRY	229470	8/13/20		7.38	21.6	453.6	6.76
TERRY	229470	7/28/21		7.38	20.0	457.8	7.08
TERRY 101	234101	9/3/21		7.41	20.6	413.0	10.7
TERRY 101	234101	7/27/23		7.58	22.6	412.3	9.62
TERRY 101	234101	8/2/24		7.52	21.5	415.4	10.5
THOMPSON 341	218341	5/29/13		7.22	24.4	415.9	7.32
THOMPSON 341	218341	8/9/13		7.57	22.2	420.0	7.62
THOMPSON 341	218341	10/9/13		7.49	21.6	425.2	7.54
THOMPSON 341	218341	1/16/14		7.53	21.5	432.7	7.48
THOMPSON 341	218341	4/14/14		7.50	21.6	425.8	7.68
THOMPSON 341	218341	7/21/14		7.48	22.3	414.2	8.02
THOMPSON 341	218341	10/22/14		7.23	22.3	430	8.02
THOMPSON 341	218341	8/3/15		7.50	23.1	425.7	7.52
THOMPSON 341	218341	7/15/16		7.45	22.4	420.8	8.46
THOMPSON 341	218341	7/28/17		7.24	21.2	422.4	8.33
THOMPSON 341	218341	7/26/18		7.34	21.0	420.6	8.27

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
THOMPSON 341	218341	7/10/19		7.15	21.7	418.3	6.44
THOMPSON 341	218341	8/12/20		7.29	21.6	420.3	7.85
THOMPSON 341	218341	7/29/21		7.23	20.8	417.6	8.21
THOMPSON 341	218341	7/7/22		7.38	21.5	419.3	8.24
THOMPSON 341	218341	8/23/23		7.39	21.2	418.9	9.39
THOMPSON 341	218341	8/15/24		7.34	23.6	429.1	9.31
TM-02A	522574	3/4/08		8.67	22.6	302	12.3
TM-02A	522574	5/23/08		7.75	22.9	321	14.7
TM-02A	522574	8/15/08		7.84	26.4	369	14.4
TM-02A	522574	10/30/08		8.07	23.9	375	21.9
TM-02A	522574	2/24/09		8.10	24.8	340	20.3
TM-02A	522574	5/6/09		8.06	26.7	320	18.7
TM-02A	522574	8/12/09		8.34	26.9	398	20
TM-02A	522574	11/4/09		8.16	26.3	381	21.8
TM-02A	522574	3/10/10		8.13	25.2	351	21.4
TM-02A	522574	3/10/10	DUP	8.13	25.2	351	21.3
TM-02A	522574	4/6/10		6.96	24.6	363	25.6
TM-02A	522574	7/6/10		7.38	24.6	343	22.1
TM-02A	522574	2/10/11		6.93	20.2	359	22.9
TM-02A	522574	7/13/11		7.92	24.8	349	22.5
TM-02A	522574	2/2/12		7.89	22.2	360	23.0
TM-02A	522574	8/14/12		7.65	24.6	366	23.4
TM-02A	522574	2/15/13		7.72	22.2	369	22.1
TM-02A	522574	8/27/13		7.72	24.7	414	23.5
TM-02A	522574	2/18/14		7.54	24.3	388	24.5
TM-02A	522574	8/12/14		7.62	24.7	395	25.6
TM-02A	522574	8/1/17		7.84	24.7	333	21.5
TM-02A	522574	8/8/19		8.02	24.4	359	19.4
TM-02A	522574	7/15/21		8.14	24.9	359	20.1
TM-02A	522574	8/22/23		8.19	24.3	414	20.5
TM-03	522575	5/20/08		7.51	22.2	778	110
TM-03	522575	8/6/08		7.08	21.6	828	97
TM-03	522575	11/12/08		7.47	20.5	590	128
TM-03	522575	2/26/09		7.21	21.8	737	107
TM-03	522575	2/26/09	DUP	7.21	21.8	737	102
TM-03	522575	5/13/09		7.47	22.2	695	109
TM-03	522575	8/18/09		7.48	22.4	822	98
TM-03	522575	11/10/09		7.55	21.8	761	106
TM-03	522575	3/2/10		7.56	21.6	748	99
TM-03	522575	4/14/10		7.55	20.6	635	103
TM-03	522575	7/7/10		7.19	21.4	566	103
TM-03	522575	2/1/12		7.48	21.1	744	112
TM-06 MILLER	522695	2/27/08		7.44	19.6	457	13.9
TM-06 MILLER	522695	5/20/08		7.50	20.7	506	32.7
TM-06 MILLER	522695	8/4/08		7.41	20.7	529	31.3
TM-06 MILLER	522695	10/29/08		7.55	20.2	531	34.5
TM-06 MILLER	522695	2/26/09		7.18	20.4	574	32.7
TM-06 MILLER	522695	5/13/09		7.35	20.9	465	30.6
TM-06 MILLER	522695	8/18/09		7.50	20.9	560	30.9
TM-06 MILLER	522695	8/18/09	DUP	7.50	20.9	560	29.9
TM-06 MILLER	522695	11/12/09		7.53	20.4	530	31.1
TM-06 MILLER	522695	4/14/10		7.35	19.4	461	29.0

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-06 MILLER	522695	7/2/10		7.24	20.1	438	29.8
TM-06 MILLER	522695	7/21/11		7.1	20.1	516	31.7
TM-06 MILLER	522695	7/9/12		6.82	20.8	505	33.5
TM-06 MILLER	522695	2/14/13		6.92	19.6	527	31.1
TM-06 MILLER	522695	8/19/13		7.21	19.9	556	32.5
TM-06 MILLER	522695	7/21/14		7.17	19.9	551	33.0
TM-06 MILLER	522695	7/26/17		7.27	20.4	521	34.5
TM-06 MILLER	522695	7/31/19		7.40	20.5	531	35.6
TM-06 MILLER	522695	7/21/21		7.49	20.5	536	37.3
TM-06 MILLER	522695	8/7/23		7.29	20.5	626	37.6
TM-07	522576	3/6/08		7.54	20.8	726	22.5
TM-07	522576	5/22/08		6.96	20.1	385	22.9
TM-07	522576	8/6/08		7.04	22.8	519	22.2
TM-07	522576	11/4/08		7.76	20.6	347	31.2
TM-07	522576	2/20/09		7.77	19.9	376	22.5
TM-07	522576	5/13/09		7.30	22.9	559	130
TM-07	522576	8/17/09		7.60	22.6	442	134
TM-07	522576	11/3/09		7.85	21.8	441	134
TM-07	522576	3/2/10		7.67	21.6	422	124
TM-07	522576	5/25/10		7.77	21.2	398	42.6
TM-07	522576	7/6/10		7.58	22.0	350	44.7
TM-07	522576	2/11/11		6.87	20.1	393	24.9
TM-07	522576	7/21/11		6.90	21.4	402	41.7
TM-07	522576	2/9/12		7.15	23.0	670	171
TM-07	522576	8/13/12		6.83	21.7	415	25.4
TM-07	522576	2/27/13		6.81	19.9	380	25.6
TM-07	522576	8/28/13		7.36	21.2	369	25.0
TM-07	522576	2/13/14		6.99	20.4	372	27.4
TM-07	522576	8/21/14		7.35	20.6	358	48.5
TM-07	522576	2/4/15		7.58	21.0	375	102
TM-07	522576	9/15/15		7.36	21.5	411	91.3
TM-07	522576	3/14/16		7.46	21.4	419	130
TM-07	522576	9/15/16		7.47	21.2	638	123
TM-07	522576	3/1/17		7.59	20.8	581	129
TM-07	522576	8/2/17		7.56	21.5	563	129
TM-07	522576	2/12/18		7.78	20.4	544	133
TM-07	522576	8/6/18		7.52	21.8	586	116
TM-07	522576	2/5/19		7.71	20.7	568	114
TM-07	522576	8/19/19		7.50	21.1	619	94.1
TM-07	522576	2/10/20		7.61	20.8	614	117
TM-07	522576	3/17/21		7.39	20.8	621	109
TM-07	522576	8/16/21		7.32	22.0	612	114
TM-07	522576	2/1/22		7.26	20.7	618	113
TM-07	522576	8/1/22		7.30	22.1	624	114
TM-07	522576	3/6/23		7.32	20.7	618	101
TM-07	522576	9/6/23		7.55	21.0	662	102
TM-07	522576	3/12/24		7.50	21.2	620	101
TM-07	522576	8/28/24		7.48	21.3	768	97.2
TM-08 SWAN	522817	2/13/08		7.63	24.1	511	24.1
TM-08 SWAN	522817	5/14/08		7.44	24.4	480	12.6
TM-08 SWAN	522817	7/23/08		7.76	28.1	522	12.6
TM-10 USBP	522696	12/8/11		6.95	19.6	381	16.8

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-10 USBP	522696	3/15/12		7.85	20.2	382.3	15.1
TM-10 USBP	522696	4/24/12		7.88	21.0	280	13.4
TM-10 USBP	522696	4/24/12	DUP	7.88	21.0	280	13.3
TM-10 USBP	522696	9/13/12		8.09	21.1	407	13.3
TM-10 USBP	522696	10/19/12		8.17	21.0	428.2	12.8
TM-10 USBP	522696	3/7/13		8.33	21.2	415.1	12.7
TM-10 USBP	522696	4/17/13		8.27	20.3	423.9	12.8
TM-10 USBP	522696	7/23/13		8.16	21.4	426.1	13.2
TM-10 USBP	522696	11/6/13		7.90	21.3	386.5	4.81
TM-10 USBP	522696	11/6/13	DUP	7.90	21.3	386.5	4.64
TM-10 USBP	522696	1/15/14		7.91	21.1	424.4	3.98
TM-10 USBP	522696	5/15/14		7.98	20.4	410.6	5.12
TM-10 USBP	522696	7/15/14		7.86	21.4	421.9	5.46
TM-10 USBP	522696	10/16/14		7.51	22.0	439	4.16
TM-10 USBP	522696	1/28/15		7.75	23.0	413	3.96
TM-10 USBP	522696	7/24/15		7.87	22.6	478.8	4.38
TM-10 USBP	522696	2/2/16		7.95	19.8	493.5	5.32
TM-10 USBP	522696	7/13/16		7.73	22.0	514.9	6.67
TM-10 USBP	522696	1/27/17		7.75	21.3	418.4	4.81
TM-10 USBP	522696	7/17/17		7.77	23.5	409.5	8.01
TM-10 USBP	522696	1/8/18		7.60	20.8	387.3	6.80
TM-10 USBP	522696	7/9/18		7.92	23.5	391.4	8.65
TM-10 USBP	522696	1/8/19		7.54	20.6	381.8	12.8
TM-10 USBP	522696	7/16/19		7.67	21.5	378.6	15.0
TM-10 USBP	522696	1/6/20		7.78	20.1	376.0	14.9
TM-10 USBP	522696	8/3/20		7.62	21.4	374.5	14.1
TM-10 USBP	522696	1/5/21		7.75	22.5	369.5	14.5
TM-10 USBP	522696	7/12/21		7.66	20.5	365.5	15.6
TM-10 USBP	522696	1/24/22		7.72	20.7	363.0	13.2
TM-10 USBP	522696	7/19/22		7.96	23.5	361.2	13.5
TM-10 USBP	522696	2/1/23		7.77	20.7	361.3	12.1
TM-10 USBP	522696	8/3/23		7.90	21.2	360.6	12.3
TM-10 USBP	522696	1/26/24		7.81	19.7	353	11.5
TM-10 USBP	522696	8/9/24		7.63	21.7	354.9	11.3
TM-15 MILLER	522699	2/27/08		7.66	21.9	344	14
TM-15 MILLER	522699	5/23/08		7.54	22.1	371	14.4
TM-15 MILLER	522699	8/5/08		7.42	23.3	413	13.7
TM-15 MILLER	522699	10/28/08		7.63	22.6	387	18.6
TM-15 MILLER	522699	10/28/08	DUP	7.63	22.6	387	18.8
TM-15 MILLER	522699	2/26/09		7.57	22.0	373	14.6
TM-15 MILLER	522699	5/13/09		7.61	23.1	344	13.7
TM-15 MILLER	522699	8/17/09		7.73	23.2	398	14.2
TM-15 MILLER	522699	11/3/09		7.73	23.4	414	14.8
TM-15 MILLER	522699	2/24/10		7.66	22.8	381	14.4
TM-15 MILLER	522699	4/27/10		7.71	23.0	383.6	14.9
TM-15 MILLER	522699	7/20/10		7.77	23.0	324	14.3
TM-15 MILLER	522699	7/12/11		7.36	23.2	380	14.2
TM-15 MILLER	522699	7/10/12		7.04	23.7	379	14.9
TM-15 MILLER	522699	2/12/13		6.96	21.7	393	14.6
TM-15 MILLER	522699	9/4/13		7.2	22.8	412	14.8
TM-15 MILLER	522699	7/22/14		7.18	23.2	407	14.6
TM-15 MILLER	522699	9/8/15		7.19	23.0	411	14.7

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-15 MILLER	522699	9/14/16		7.45	23.1	381	14.5
TM-15 MILLER	522699	8/1/17		7.38	22.9	384	14.8
TM-15 MILLER	522699	7/18/18		7.46	23.1	386	14.8
TM-15 MILLER	522699	8/19/19		7.59	22.7	387	14.6
TM-15 MILLER	522699	8/24/20		7.61	22.9	386	14.9
TM-15 MILLER	522699	7/12/21		7.73	23.3	387	14.8
TM-15 MILLER	522699	7/25/22		7.53	22.9	396	16.1
TM-15 MILLER	522699	8/3/23		7.64	22.2	443	14.7
TM-15 MILLER	522699	7/31/24		7.51	22.3	529	15.0
TM-15 MILLER	522699	7/31/24	DUP	7.51	22.3	529	15.0
TM-16	522578	3/5/08		7.17	20.6	1351	497
TM-16	522578	5/22/08		7.05	20.5	1304	522
TM-16	522578	8/6/08		6.67	20.9	1410	466
TM-16	522578	11/5/08		7.14	19.8	1162	547
TM-16	522578	2/20/09		6.90	21.1	1292	492
TM-16	522578	5/13/09		6.93	21.1	1179	484
TM-16	522578	8/19/09		7.08	21.2	1354	468
TM-16	522578	11/10/09		7.02	21.0	1310	505
TM-16	522578	3/2/10		7.13	20.4	1313	451
TM-16	522578	4/14/10		6.90	19.9	987	484
TM-16	522578	7/2/10		6.81	20.8	858	474
TM-16	522578	7/14/11		6.97	20.5	1285	511
TM-16	522578	7/16/11		6.97	20.5	1285	513
TM-16	522578	7/9/12		6.95	21.0	1292	544
TM-16	522578	8/15/13		6.86	20.3	1374	539
TM-16	522578	8/4/14		6.79	20.6	1368	550
TM-16	522578	7/12/17		6.87	20.9	1321	536
TM-16	522578	7/30/19		7.15	21.0	1310	479
TM-16	522578	7/15/21		7.06	21.2	1302	499
TM-16	522578	8/7/23		7.20	20.8	1430	481
TM-19A	522581	3/6/08		8.02	22.2	240	56.1
TM-19A	522581	5/22/08		7.36	24.0	501	64.5
TM-19A	522581	8/6/08		7.32	22.6	494	55.3
TM-19A	522581	11/18/08		7.79	24.3	365	66.3
TM-19A	522581	3/3/09		7.41	24.5	489	66.2
TM-19A	522581	4/22/09		7.44	24.3	494	62.5
TM-19A	522581	8/12/09		7.61	24.4	554	61.3
TM-19A	522581	11/4/09		7.47	24.2	522	63
TM-19A	522581	3/10/10		7.54	22.9	511	60.6
TM-19A	522581	4/9/10		6.49	23.0	435	66.5
TM-19A	522581	7/7/10		6.93	23.8	428	63.2
TM-19A	522581	2/14/11		6.69	21.4	511	61.9
TM-19A	522581	7/15/11		7.11	24.1	499	62.1
TM-19A	522581	2/2/12		7.13	22.5	498	62.2
TM-19A	522581	7/10/12		7.12	23.5	505	63.7
TM-19A	522581	2/15/13		6.74	23.2	522	60.1
TM-19A	522581	9/4/13		7.11	23.8	538	61.3
TM-19A	522581	2/12/14		6.93	23.6	548	62.8
TM-19A	522581	7/21/14		7.06	24.2	542	63.3
TM-19A	522581	9/10/15		7.31	24.0	502	61.4
TM-19A	522581	8/18/16		7.27	24.1	505	64.7
TM-19A	522581	7/26/17		7.27	24.1	505	64.6

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-19A	522581	7/25/18		7.49	24.3	511	71.4
TM-19A	522581	8/7/19		7.41	24.1	510	56.6
TM-19A	522581	8/17/20		7.52	23.5	515	59.2
TM-19A	522581	8/18/21		7.47	24.1	504	62.0
TM-19A	522581	7/25/22		7.42	24.2	519	63.3
TM-19A	522581	8/29/23		7.49	23.7	577	67.9
TM-19A	522581	9/4/24		7.49	23.4	689	65.2
TM-42	562554	3/5/08		7.10	20.8	1342	482
TM-42	562554	5/22/08		7.05	21.4	1270	483
TM-42	562554	8/6/08		6.69	22.0	1388	467
TM-42	562554	11/6/08		6.90	21.0	1025	477
TM-42	562554	2/18/09		6.72	22.3	1245	429
TM-42	562554	5/7/09		6.88	24.5	1155	430
TM-42	562554	5/7/09	DUP	6.88	24.5	1155	445
TM-42	562554	8/18/09		7.04	24.4	1336	428
TM-42	562554	11/3/09		7.07	23.1	1266	430
TM-42	562554	2/24/10		7.13	22.7	1236	390
TM-42	562554	4/19/10		6.87	21.5	985	444
TM-42	562554	7/2/10		6.81	23.9	827	407
TM-42	562554	7/12/11		6.83	22.0	1205	441
TM-42	562554	2/9/12		6.76	20.5	1172	444
TM-42	562554	7/11/12		6.72	21.1	1155	449
TM-42	562554	2/12/13		6.69	20.2	1185	400
TM-42	562554	8/28/13		6.89	21.3	1212	416
TM-42	562554	7/21/14		6.85	21.4	1205	418
TM-42	562554	7/26/17		6.98	21.6	1234	485
TM-42	562554	8/7/19		6.99	21.7	1371	527
TM-42	562554	7/21/21		6.93	21.8	1500	676
TM-42	562554	8/29/23		7.10	21.3	1630	750
TM-43	564729	3/3/08		8.57	21.0	341	2.1
TM-43	564729	8/4/08		8.14	25.7	436	<5
TM-43A	564726	3/3/08		6.17	19.9	2788	1420
TM-43A	564726	8/4/08		6.03	21.6	3149	1320
TM-43B	565004	3/3/08		6.79	20.6	514	0.7
TM-43B	565004	8/5/08		6.89	21.0	507	31.8
TM-43B	565004	8/5/08	DUP	6.89	21.0	507	32.5
TVI 236	802236	3/20/08		7.48	20.0	488	31.3
TVI 236	802236	5/7/08		7.13	20.4	494	32.6
TVI 236	802236	7/15/08		7.39	21.9	532	37.6
TVI 236	802236	10/15/08		7.45	22.3	490	36.6
TVI 236	802236	2/11/09		7.32	20.1	391	27.6
TVI 236	802236	4/17/09		7.36	19.3	418	28.1
TVI 236	802236	4/17/09	DUP	7.36	19.3	418	28.3
TVI 236	802236	7/21/09		7.59	22.9	484	31.3
TVI 236	802236	10/19/09		7.31	22.1	513	33.2
TVI 236	802236	2/2/10		7.39	20.4	497	26
TVI 236	802236	4/23/10		7.46	20.0	504.6	30.9
TVI 236	802236	7/15/10		7.37	21.5	499.4	39.3
TVI 236	802236	7/15/11		6.80	22.4	499.6	42.9
TVI 236	802236	7/16/12		7.30	21.1	500	36.3
TVI 236	802236	10/9/12		7.56	20.4	513.7	40.9
TVI 236	802236	7/18/13		7.38	20.9	514.4	42.4

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TVI 236	802236	7/16/14		7.41	21.1	517.3	43.9
TVI 236	802236	7/30/15		7.43	20.5	529.1	16.5
TVI 236	802236	1/12/16		7.57	19.5	505.8	44.1
TVI 236	802236	9/26/16		7.42	19.0	511.4	15.1
TVI 236	802236	1/27/17		7.32	19.3	519.5	47.0
TVI 236	802236	7/31/17		7.04	19.0	532.5	15.8
TVI 236	802236	1/17/18		7.30	18.6	531.3	29.5
TVI 236	802236	7/27/18		7.22	19.3	535.8	17.5
TVI 236	802236	1/16/19		7.41	18.5	530.8	29.0
TVI 236	802236	2/21/24		7.51	18.2	617.0	23.4
TVI 236	802236	8/16/24		7.45	19.7	507.5	30.2
TVI 875	568875	2/21/08		7.28	21.1	739	244
TVI 875	568875	5/7/08		7.09	21.2	833	250
TVI 875	568875	7/15/08		7.27	22.4	925	274
TVI 875	568875	10/15/08		7.26	22.1	878	245
TVI 875	568875	2/11/09		7.20	20.7	738	312
TVI 875	568875	4/17/09		7.31	21.5	690	251
TVI 875	568875	7/21/09		7.47	22.2	812	236
TVI 875	568875	10/19/09		7.23	21.9	822	247
TVI 875	568875	2/2/10		7.32	20.8	939	250
TVI 875	568875	4/23/10		7.34	20.2	930.4	294
TVI 875	568875	7/15/10		7.46	21.8	842.5	262
TVI 875	568875	10/20/10		7.79	21.9	890	242
TVI 875	568875	1/20/11		7.39	21.0	780	226
TVI 875	568875	4/11/11		7.20	21.1	820.6	235
TVI 875	568875	7/15/11		6.75	22.2	791.9	239
TVI 875	568875	10/12/11		7.35	22.7	868.5	262
TVI 875	568875	2/3/12		7.20	20.5	850	299
TVI 875	568875	4/25/12		7.19	21.3	840	267
TVI 875	568875	7/16/12		7.13	22.2	860	261
TVI 875	568875	7/16/12	DUP	7.13	22.2	860	267
TVI 875	568875	10/9/12		7.39	20.9	882.8	281
TVI 875	568875	2/6/13		7.23	20.8	946.1	335
TVI 875	568875	4/10/13		7.35	20.9	907.6	296
TVI 875	568875	7/18/13		7.31	21.4	994.2	355
TVI 875	568875	10/8/13		7.35	21.0	894.6	275
TVI 875	568875	1/9/14		7.23	20.3	917.4	305
TVI 875	568875	4/9/14		7.31	20.9	910.7	296
TVI 875	568875	7/16/14		7.30	21.6	940.2	328
TVI 875	568875	10/9/14		7.12	21.2	963	245
TVI 875	568875	7/30/15		7.35	22.1	915.4	277
TVI 875	568875	7/14/16		7.28	21.6	919.1	271
TVI 875	568875	7/13/17		7.19	20.1	920.0	303
TVI 875	568875	7/12/18		7.16	20.0	928.8	309
TVI 875	568875	7/18/19		7.09	19.8	972.2	325
WALKER	200393	2/13/08		7.05	20.2	650	20
WALKER	200393	7/23/08		7.25	20.7	740	45.4
WEED	544535	2/14/08		7.74	21.7	323	11.1
WEED	544535	5/15/08		7.22	22.7	365	12.6
WEED	544535	7/30/08		7.42	32.0	407	11.5
WEED	544535	10/20/08		8.10	31.6	405	10.2
WEED	544535	2/13/09		7.66	21.0	303	12.6

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
WEED	544535	4/22/09		7.46	22.2	368	11.6
WEED	544535	7/16/09		7.50	21.9	365	10.8
WEED	544535	10/20/09		7.34	21.6	381	12.7
WEED	544535	2/1/10		7.60	20.8	382	12.2
WEED	544535	4/26/10		7.69	22.1	366	13.4
WEED	544535	7/21/10		7.36	22.1	354.9	13.6
WEED	544535	7/21/10	DUP	7.36	22.1	354.9	13.5
WEED	544535	10/19/10		7.63	21.2	378.8	11.7
WEED	544535	1/19/11		7.62	21.1	383.6	12.2
WEED	544535	4/11/11		7.44	21.5	386.6	13
WEED	544535	7/18/11		7.56	22.0	379.3	12.7
WEED	544535	10/12/11		7.02	21.7	382.8	13.3
WEED	544535	2/6/12		7.60	21.4	385.0	13.5
WEED	544535	4/25/12		7.60	22.1	360	12.7
WEED	544535	7/5/12		7.64	21.7	385.8	12.9
WEED	544535	10/9/12		7.66	21.5	385.1	14.0
WEED	544535	2/7/13		7.7	21.4	389.7	14.0
WEED	544535	2/7/13	DUP	7.7	21.4	389.7	13.2
WEED	544535	4/10/13		7.76	20.6	383.9	13.0
WEED	544535	7/19/13		7.63	21.3	386.6	14.2
WEED	544535	10/18/13		7.72	21.1	387.3	13.1
WEED	544535	1/15/14		7.73	20.7	388.4	13.4
WEED	544535	4/10/14		7.85	21.5	387.1	13.5
WEED	544535	41838		7.79	21.4	386.7	14.1
WEED	544535	10/22/14		7.5	22.7	394	13.7
WEED	544535	42034		7.81	20.7	381	14.2
WEED	544535	8/4/15		7.72	22	386.7	13.1
WEED	544535	42383		7.79	20.2	376.9	13.7
WEED	544535	42573		7.89	22.9	376.2	13.2
WEED	544535	42758		7.58	20.4	387.5	13.3
WEED	544535	42940		7.52	20.5	386.8	13.9
WEED	544535	43116		7.51	20.3	384.2	14.0
WEED	544535	43297		7.49	20.4	385.1	13.3
WEED	544535	43473		7.52	20.3	388.2	13.1
WEED	544535	43654		7.02	21.3	393.5	11.1
WEED	544535	1/22/20		7.10	20.8	387.1	13.5
WEED	544535	7/21/20		7.63	21.2	384.2	13.7
WEED	544535	1/7/21		7.55	21.2	383.1	12.8
WEED	544535	7/21/21		7.63	20.2	384.3	14.7
WEED	544535	2/1/22		7.62	20.1	377.2	12.6
WEED	544535	7/6/22		7.73	21.3	379.7	12.9
WEED	544535	1/12/23		ND	20.3	381.7	13.7
WEED	544535	7/24/23		7.71	20.6	387.7	13.0
WEED	544535	1/16/24		8.14	18.7	380.3	12.5
WEED	544535	8/8/24		7.69	20.8	399.4	13.8
WEISKOPF 802	641802	2/15/08		7.48	20.0	1072	500
WEISKOPF 802	641802	5/7/08		7.10	21.8	1251	483
WEISKOPF 802	641802	7/16/08		7.07	22.2	1399	560
WEISKOPF 802	641802	10/28/08		6.98	20.8	1401	602
WEISKOPF 802	641802	1/29/09		6.79	20.7	1014	503
WEISKOPF 802	641802	4/15/09		7.53	21.1	1164	503
WEISKOPF 802	641802	7/15/09		7.84	22.1	1317	486
WEISKOPF 802	641802	10/15/09		6.89	21.4	1216	484
WEISKOPF 802	641802	2/2/10		7.22	20.4	1319	451
WEISKOPF 802	641802	4/22/10		7.30	19.3	1329	572
WEISKOPF 802	641802	7/19/10		7.06	23.1	1330	573
WEISKOPF 802	641802	10/20/10		7.64	21.6	1360	515
WEISKOPF 802	641802	10/20/10	DUP	7.64	21.6	1360	529

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
WEISKOPF 802	641802	1/17/11		7.16	22.0	1270	481
WEISKOPF 802	641802	4/11/11		6.88	22.4	1365	557
WEISKOPF 802	641802	8/26/11		6.83	23.5	1200	549
WEISKOPF 802	641802	10/13/11		7.07	22.8	1299	539
WEISKOPF 802	641802	2/3/12		7.35	21.5	1363	583
WEISKOPF 802	641802	4/25/12		7.07	23.5	1300	575
WEISKOPF 802	641802	7/13/12		6.83	22.2	1530	552
WEISKOPF 802	641802	10/11/12		7.26	21.3	1369	572
WEISKOPF 802	641802	10/11/12	DUP	7.26	21.3	1369	577
WEISKOPF 802	641802	1/16/13		7.14	20.5	1298	523
WEISKOPF 802	641802	4/17/13		7.22	20.1	1337	558
WEISKOPF 802	641802	7/18/13		7.45	21.3	1131	420
WEISKOPF 802	641802	10/17/13		7.29	22.5	1131	437
WEISKOPF 802	641802	1/16/14		7.28	22.7	1323	563
WEISKOPF 802	641802	4/11/14		7.29	23.0	1304	558
WEISKOPF 802	641802	7/18/14		7.17	23.3	1375	608
WEISKOPF 802	641802	10/9/14		7.08	24.5	1094	405
WEISKOPF 802	641802	8/4/15		7.07	24.5	1571	699
WEISKOPF 802	641802	8/4/15	DUP	7.07	24.5	1571	701
WEISKOPF 802	641802	7/26/16		7.00	22.8	1483	702
WEISKOPF 802	641802	7/24/17		6.85	22.8	1524	698
WEISKOPF 802	641802	7/23/19		6.90	21.8	1520	657
WEISKOPF 897	220897	12/6/12		7.93	23.6	398.3	18.5
WEISKOPF 897	220897	1/16/13		7.88	23.1	398.9	18.2
WEISKOPF 897	220897	1/16/13	DUP	7.88	23.1	398.9	18.2
WEISKOPF 897	220897	4/17/13		7.86	22.6	394.4	19.0
WEISKOPF 897	220897	7/18/13		7.84	24.3	393.2	18.0
WEISKOPF 897	220897	10/17/13		7.90	23.3	392.2	18.3
WEISKOPF 897	220897	1/16/14		7.90	23	395.8	18.4
WEISKOPF 897	220897	4/11/14		7.92	23.5	390.5	17.9
WEISKOPF 897	220897	7/18/14		7.87	23.9	387.4	18.4
WEISKOPF 897	220897	10/9/14		7.69	22.8	392	17.7
WEISKOPF 897	220897	8/4/15		7.89	24.9	385.7	17.3
WEISKOPF 897	220897	7/26/16		7.81	23.8	387.0	17.8
WEISKOPF 897	220897	7/24/17		7.58	23.1	386.7	17.0
WEISKOPF 897	220897	7/16/18		7.60	22.9	383.3	16.7
WEISKOPF 897	220897	7/23/19		7.57	22.9	383.1	16.1
WEISKOPF 897	220897	7/23/20		7.59	23.7	381.5	16.9
WEISKOPF 897	220897	7/26/21		7.57	22.9	380.8	16.5
WEISKOPF 897	220897	7/13/22		7.71	25.8	394.3	16.7
WEISKOPF 897	220897	7/26/23		8.01	24.7	381.8	15.9
WEISKOPF 897	220897	7/26/24		7.58	23.3	384	16.6
WMD-2011-03M	913037	2/2/12		6.66	22.0	1190	391
ZANDER	205126	2/4/08		7.24	19.7	392	5.7
ZANDER	205126	5/6/08		7.26	21.2	404	6.3
ZANDER	205126	7/16/08		6.92	22.9	441	6.9
ZANDER	205126	10/28/08		7.40	21.2	415	15
ZANDER	205126	2/10/09		7.50	20.4	317	6
ZANDER	205126	4/16/09		7.47	21.7	352	5.5
ZANDER	205126	7/14/09		7.36	22.9	418	4.5
ZANDER	205126	10/13/09		7.41	21.7	407	6.3
ZANDER	205126	1/26/10		7.49	20.3	411	5.7
ZANDER	205126	4/2/10		7.55	20.0	416	6.70
ZANDER	205126	7/21/10		7.38	22.7	388.2	6.78
ZANDER	205126	10/19/10		6.78	21.3	430	6.56
ZANDER	205126	1/18/11		7.59	18.9	380	6.14
ZANDER	205126	1/18/11	DUP	7.59	18.9	380	6.06
ZANDER	205126	4/6/11		7.20	19.7	425.8	6.12
ZANDER	205126	7/13/11		7.29	22.9	410.1	6.43
ZANDER	205126	10/12/11		7.35	22.2	426.2	6.38
ZANDER	205126	1/31/12		7.29	20.3	420	6.59
ZANDER	205126	4/10/12		7.49	21.9	420.1	6.90
ZANDER	205126	4/10/12	DUP	7.49	21.9	420.1	6.65
ZANDER	205126	7/17/12		7.34	22.2	430	6.38
ZANDER	205126	10/8/12		7.58	20.8	431.4	7.03
ZANDER	205126	1/10/13		7.58	20.7	436.1	6.52
ZANDER	205126	4/18/13		7.65	20.8	436.7	6.66
ZANDER	205126	7/15/13		7.55	21.8	431.1	6.49
ZANDER	205126	10/7/13		7.59	21.5	430.2	6.41
ZANDER	205126	1/7/14		7.50	20.9	435.4	6.77

APPENDIX C
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	Duplicate	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
ZANDER	205126	4/9/14		7.57	21.5	434.4	6.57
ZANDER	205126	7/17/14		7.61	21.5	432.0	6.99
ZANDER	205126	10/13/14		7.52	23.8	422.0	6.24
ZANDER	205126	8/3/15		7.61	22.5	430.3	6.54
ZANDER	205126	7/15/16		7.53	22.4	434.1	7.12
ZANDER	205126	7/24/17		7.26	20.5	430.2	7.21
ZANDER	205126	7/24/18		7.28	20.7	427.0	7.12
ZANDER	205126	7/16/19		7.23	20.4	426.5	6.49
ZANDER	205126	8/11/20		7.29	21.2	426.3	6.99
ZANDER	205126	7/27/21		7.37	20.4	423.8	7.96
ZANDER	205126	7/14/22		7.43	20.8	419.7	7.67
ZANDER	205126	7/28/23		7.55	21.8	420.4	6.83

Notes:
35-71891 = ADWR 35 Database
ADWR = Arizona Department of Water Resources
deg C = degrees Celsius
DUP = blind duplicate
M = Multi-Meter malfunction
mg/L = milligrams per liter
ND = no data
NR = no record
SC = specific conductance
SU = standard units
µS/cm = microsiemens per centimeter

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
ANDERSON 396	613396	601134.729	3468816.065	4588.51	3/20/08	145.46	4443.05
ANDERSON 396	613396	601134.729	3468816.065	4588.51	5/5/08	145.84	4442.67
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/14/08	146.16	4442.35
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/15/08	146.21	4442.30
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/27/09	145.97	4442.54
ANDERSON 396	613396	601134.729	3468816.065	4588.51	4/14/09	146.21	4442.30
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/14/09	146.88	4441.63
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/12/09	147.31	4441.20
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/27/10	147.31	4441.20
ANDERSON 396	613396	601134.729	3468816.065	4588.51	4/21/10	147.57	4440.94
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/19/10	148.34	4440.17
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/19/10	147.75	4440.76
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/17/11	148.63	4439.88
ANDERSON 396	613396	601134.729	3468816.065	4588.51	4/11/11	149.46	4439.05
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/14/11	149.92	4438.59
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/11/11	150.19	4438.32
ANDERSON 396	613396	601134.729	3468816.065	4588.51	2/1/12	150.19	4438.32
ANDERSON 396	613396	601134.729	3468816.065	4588.51	4/25/12	150.69	4437.82
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/12/12	151.34	4437.17
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/10/12	151.50	4437.01
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/17/13	151.24	4437.27
ANDERSON 396	613396	601134.729	3468816.065	4588.51	4/15/13	152.08	4436.43
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/18/13	152.19	4436.32
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/16/13	152.41	4436.10
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/9/14	152.14	4436.37
ANDERSON 396	613396	601134.729	3468816.065	4588.51	4/7/14	152.56	4435.95
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/11/14	152.02	4436.49
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/6/14	152.70	4435.81
ANDERSON 396	613396	601134.729	3468816.065	4588.51	2/2/15	152.09	4436.42
ANDERSON 396	613396	601134.729	3468816.065	4588.51	5/18/15	152.22	4436.29
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/22/15	152.63	4435.88
ANDERSON 396	613396	601134.729	3468816.065	4588.51	10/8/15	152.39	4436.12
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/12/16	152.00	4436.51
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/19/16	154.43	4434.08
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/16/17	153.34	4435.17
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/18/17	153.99	4434.52
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/16/18	153.89	4434.62
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/18/18	154.61	4433.90
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/7/19	155.18	4433.33
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/11/19	155.70	4432.81
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/6/20	155.94	4432.57
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/22/20	156.05	4432.46
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/5/21	156.67	4431.84
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/27/21	157.41	4431.10
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/27/22	157.98	4430.53
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/11/22	158.29	4430.22
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/11/23	158.55	4429.96
ANDERSON 396	613396	601134.729	3468816.065	4588.51	7/26/23	158.91	4429.60
ANDERSON 396	613396	601134.729	3468816.065	4588.51	1/18/24	159.68	4428.83
ANDERSON 396	613396	601134.729	3468816.065	4588.51	8/13/24	160.38	4428.13
ANDERSON 458	221458	601118.831	3468825.541	4585.37	9/7/12	173.76	4411.61
ANDERSON 458	221458	601118.831	3468825.541	4585.37	10/10/12	151.82	4433.55
ANDERSON 458	221458	601118.831	3468825.541	4585.37	1/17/13	152.17	4433.20
ANDERSON 458	221458	601118.831	3468825.541	4585.37	4/15/13	158.42	4426.95

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/18/13	157.56	4427.81
ANDERSON 458	221458	601118.831	3468825.541	4585.37	10/16/13	156.24	4429.13
ANDERSON 458	221458	601118.831	3468825.541	4585.37	1/9/14	152.58	4432.79
ANDERSON 458	221458	601118.831	3468825.541	4585.37	4/7/14	153.54	4431.83
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/11/14	156.66	4428.71
ANDERSON 458	221458	601118.831	3468825.541	4585.37	10/6/14	157.31	4428.06
ANDERSON 458	221458	601118.831	3468825.541	4585.37	5/18/15	156.79	4428.58
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/22/15	157.03	4428.34
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/19/16	153.02	4432.35
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/18/17	155.93	4429.44
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/18/18	158.55	4426.82
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/11/19	185.21	4400.16
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/22/20	178.36	4407.01
ANDERSON 458	221458	601118.8306	3468825.541	4585.37	7/27/21	161.26	4424.11
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/11/22	170.67	4414.70
ANDERSON 458	221458	601118.831	3468825.541	4585.37	7/26/23	162.7	4422.67
ANDERSON 458	221458	601118.831	3468825.541	4585.37	8/13/24	162.49	4422.88
ASLD 435	616435	593503.215	3468886.141	4471.34	6/27/13	250.85	4220.49
ASLD 435	616435	593503.215	3468886.141	4471.34	9/24/13	250.85	4220.49
ASLD 435	616435	593503.215	3468886.141	4471.34	12/3/13	250.79	4220.55
ASLD 435	616435	593503.215	3468886.141	4471.34	2/25/14	250.75	4220.59
ASLD 435	616435	593503.215	3468886.141	4471.34	6/4/14	250.93	4220.41
ASLD 435	616435	593503.215	3468886.141	4471.34	9/10/14	250.97	4220.37
ASLD 435	616435	593503.215	3468886.141	4471.34	11/20/14	250.66	4220.68
ASLD 435	616435	593503.215	3468886.141	4471.34	3/24/15	250.25	4221.09
ASLD 435	616435	593503.215	3468886.141	4471.34	9/17/15	250.17	4221.17
ASLD 435	616435	593503.215	3468886.141	4471.34	3/24/16	250.17	4221.17
ASLD 435	616435	593503.215	3468886.141	4471.34	9/28/16	250.21	4221.13
ASLD 435	616435	593503.215	3468886.141	4471.34	3/20/17	250.55	4220.79
ASLD 435	616435	593503.215	3468886.141	4471.34	8/10/17	250.94	4220.40
ASLD 435	616435	593503.215	3468886.141	4471.34	3/8/18	251.30	4220.04
ASLD 435	616435	593503.215	3468886.141	4471.34	8/22/18	251.57	4219.77
ASLD 435	616435	593503.215	3468886.141	4471.34	2/14/19	251.93	4219.41
ASLD 435	616435	593503.215	3468886.141	4471.34	9/9/19	252.42	4218.92
ASLD 435	616435	593503.215	3468886.141	4471.34	2/27/20	252.73	4218.61
ASLD 435	616435	593503.215	3468886.141	4471.34	8/25/20	253.10	4218.24
ASLD 435	616435	593503.215	3468886.141	4471.34	3/23/21	253.47	4217.87
ASLD 435	616435	593503.215	3468886.141	4471.34	9/20/21	253.99	4217.35
ASLD 435	616435	593503.215	3468886.141	4471.34	3/14/22	254.27	4217.07
ASLD 435	616435	593503.215	3468886.141	4471.34	9/22/22	254.47	4216.87
ASLD 435	616435	593503.215	3468886.141	4471.34	3/14/23	254.42	4216.92
ASLD 435	616435	593503.215	3468886.141	4471.34	9/19/23	253.94	4217.40
ASLD 435	616435	593503.215	3468886.141	4471.34	3/20/24	254.03	4217.31
ASLD 435	616435	593503.215	3468886.141	4471.34	9/26/24	254.4	4216.94
AWC-02	616586	598907.911	3468565.912	4547.64	4/8/08	116	4431.64
AWC-02	616586	598907.911	3468565.912	4547.64	8/27/08	121.12	4426.52
AWC-02	616586	598907.911	3468565.912	4547.64	10/23/08	115	4432.64
AWC-02	616586	598907.911	3468565.912	4547.64	4/22/09	118	4429.64
AWC-02	616586	598907.911	3468565.912	4547.64	10/9/09	117	4430.64
AWC-02	616586	598907.911	3468565.912	4547.64	4/23/10	119	4428.64
AWC-02	616586	598907.911	3468565.912	4547.64	4/11/13	127.64	4420.00
AWC-02	616586	598907.911	3468565.912	4547.64	7/25/13	128.89	4418.75
AWC-02	616586	598907.911	3468565.912	4547.64	10/7/13	125.00	4422.64
AWC-02	616586	598907.911	3468565.912	4547.64	1/7/14	125.36	4422.28

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
AWC-02	616586	598907.911	3468565.912	4547.64	5/14/14	124.89	4422.75
AWC-02	616586	598907.911	3468565.912	4547.64	7/16/14	124.49	4423.15
AWC-02	616586	598907.911	3468565.912	4547.64	10/15/14	122.52	4425.12
AWC-02	616586	598907.911	3468565.912	4547.64	1/29/15	120.00	4427.64
AWC-02	616586	598907.911	3468565.912	4547.64	5/18/15	162.60	4385.04
AWC-02	616586	598907.911	3468565.912	4547.64	7/21/15	129.08	4418.56
AWC-02	616586	598907.911	3468565.912	4547.64	10/1/15	128.00	4419.64
AWC-02	616586	598907.911	3468565.912	4547.64	1/13/16	128.80	4418.84
AWC-02	616586	598907.911	3468565.912	4547.64	7/19/16	125.40	4422.24
AWC-02	616586	598907.911	3468565.912	4547.64	1/19/17	119.69	4427.95
AWC-02	616586	598907.911	3468565.912	4547.64	9/6/17	131.56	4416.08
AWC-02	616586	598907.911	3468565.912	4547.64	1/17/18	131.93	4415.71
AWC-02	616586	598907.911	3468565.912	4547.64	7/25/18	129.03	4418.61
AWC-02	616586	598907.911	3468565.912	4547.64	1/16/19	121.92	4425.72
AWC-02	616586	598907.911	3468565.912	4547.64	7/23/19	130.58	4417.06
AWC-02	616586	598907.911	3468565.912	4547.64	1/13/20	123.78	4423.86
AWC-02	616586	598907.911	3468565.912	4547.64	8/3/20	128.44	4419.20
AWC-02	616586	598907.911	3468565.912	4547.64	1/4/21	128.06	4419.58
AWC-02	616586	598907.911	3468565.912	4547.64	7/20/21	129.77	4417.87
AWC-02	616586	598907.911	3468565.912	4547.64	1/31/22	129.15	4418.49
AWC-02	616586	598907.911	3468565.912	4547.64	7/18/22	131.38	4416.26
AWC-02	616586	598907.911	3468565.912	4547.64	1/30/23	130.77	4416.87
AWC-02	616586	598907.911	3468565.912	4547.64	8/8/23	129.02	4418.62
AWC-02	616586	598907.911	3468565.912	4547.64	1/22/24	126.93	4420.71
AWC-02	616586	598907.911	3468565.912	4547.64	8/1/24	129.08	4418.56
AWC-03	616585	599090.322	3468659.578	4539.52	4/8/08	112	4427.52
AWC-03	616585	599090.322	3468659.578	4539.52	8/27/08	119.40	4420.12
AWC-03	616585	599090.322	3468659.578	4539.52	10/23/08	106	4433.52
AWC-03	616585	599090.322	3468659.578	4539.52	4/22/09	114	4425.52
AWC-03	616585	599090.322	3468659.578	4539.52	10/9/09	116	4423.52
AWC-03	616585	599090.322	3468659.578	4539.52	4/23/10	116	4423.52
AWC-03	616585	599090.322	3468659.578	4539.52	4/11/13	125	4414.52
AWC-03	616585	599090.322	3468659.578	4539.52	7/16/13	126	4413.52
AWC-03	616585	599090.322	3468659.578	4539.52	10/7/13	122	4417.52
AWC-03	616585	599090.322	3468659.578	4539.52	1/7/14	121	4418.60
AWC-03	616585	599090.322	3468659.578	4539.52	5/14/14	121.50	4418.02
AWC-03	616585	599090.322	3468659.578	4539.52	7/16/14	123.50	4416.02
AWC-03	616585	599090.322	3468659.578	4539.52	10/15/14	119.60	4419.92
AWC-03	616585	599090.322	3468659.578	4539.52	1/29/15	120.20	4419.32
AWC-03	616585	599090.322	3468659.578	4539.52	5/19/15	186.20	4353.32
AWC-03	616585	599090.322	3468659.578	4539.52	7/21/15	118.00	4421.52
AWC-03	616585	599090.322	3468659.578	4539.52	10/1/15	115.00	4424.52
AWC-03	616585	599090.322	3468659.578	4539.52	1/13/16	118.00	4421.52
AWC-03	616585	599090.322	3468659.578	4539.52	7/19/16	125.50	4414.02
AWC-03	616585	599090.322	3468659.578	4539.52	1/19/17	123.00	4416.52
AWC-03	616585	599090.322	3468659.578	4539.52	9/6/17	121.30	4418.22
AWC-03	616585	599090.322	3468659.578	4539.52	1/17/18	113.60	4425.92
AWC-03	616585	599090.322	3468659.578	4539.52	7/25/18	125.7	4413.82
AWC-03	616585	599090.322	3468659.578	4539.52	1/16/19	123.0	4416.52
AWC-03	616585	599090.322	3468659.578	4539.52	7/23/19	126.50	4413.02
AWC-03	616585	599090.322	3468659.578	4539.52	1/13/20	123.50	4416.02
AWC-03	616585	599090.322	3468659.578	4539.52	8/3/20	129.00	4410.52
AWC-03	616585	599090.322	3468659.578	4539.52	1/4/21	126.50	4413.02
AWC-03	616585	599090.322	3468659.578	4539.52	7/20/21	129.00	4410.52

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
AWC-03	616585	599090.322	3468659.578	4539.52	1/31/22	127.00	4412.52
AWC-03	616585	599090.322	3468659.578	4539.52	7/18/22	122.00	4417.52
AWC-03	616585	599090.322	3468659.578	4539.52	1/30/23	162.28	4377.24
AWC-03	616585	599090.322	3468659.578	4539.52	8/8/23	128.60	4410.92
AWC-03	616585	599090.322	3468659.578	4539.52	1/22/24	134.10	4405.42
AWC-03	616585	599090.322	3468659.578	4539.52	8/1/24	132.50	4407.02
AWC-04	616584	598949.929	3468717.084	4540.48	4/8/08	108	4432.48
AWC-04	616584	598949.929	3468717.084	4540.48	8/27/08	112.56	4427.92
AWC-04	616584	598949.929	3468717.084	4540.48	10/23/08	111.31	4429.17
AWC-04	616584	598949.929	3468717.084	4540.48	4/22/09	110	4430.48
AWC-04	616584	598949.929	3468717.084	4540.48	10/9/09	110	4430.48
AWC-04	616584	598949.929	3468717.084	4540.48	4/23/10	109	4431.48
AWC-04	616584	598949.929	3468717.084	4540.48	4/11/13	120.93	4419.55
AWC-04	616584	598949.929	3468717.084	4540.48	July-13	123.76	4416.72
AWC-04	616584	598949.929	3468717.084	4540.48	10/7/13	116.00	4424.48
AWC-04	616584	598949.929	3468717.084	4540.48	1/7/14	115.98	4424.50
AWC-04	616584	598949.929	3468717.084	4540.48	5/14/14	115.32	4425.16
AWC-04	616584	598949.929	3468717.084	4540.48	7/16/14	118.44	4422.04
AWC-04	616584	598949.929	3468717.084	4540.48	10/15/14	114.29	4426.19
AWC-04	616584	598949.929	3468717.084	4540.48	1/29/15	112.20	4428.28
AWC-04	616584	598949.929	3468717.084	4540.48	5/19/15	113.90	4426.58
AWC-04	616584	598949.929	3468717.084	4540.48	7/21/15	131.70	4408.78
AWC-04	616584	598949.929	3468717.084	4540.48	10/1/15	129	4411.48
AWC-04	616584	598949.929	3468717.084	4540.48	1/13/16	130.33	4410.15
AWC-04	616584	598949.929	3468717.084	4540.48	7/19/16	119.70	4420.78
AWC-04	616584	598949.929	3468717.084	4540.48	1/19/17	113.15	4427.33
AWC-04	616584	598949.929	3468717.084	4540.48	9/6/17	127.92	4412.56
AWC-04	616584	598949.929	3468717.084	4540.48	1/17/18	125.86	4414.62
AWC-04	616584	598949.929	3468717.084	4540.48	7/25/18	120.27	4420.21
AWC-04	616584	598949.929	3468717.084	4540.48	1/16/19	115.33	4425.15
AWC-04	616584	598949.929	3468717.084	4540.48	7/23/19	126.48	4414.00
AWC-04	616584	598949.929	3468717.084	4540.48	1/13/20	115.84	4424.64
AWC-04	616584	598949.929	3468717.084	4540.48	8/3/20	119.42	4421.06
AWC-04	616584	598949.929	3468717.084	4540.48	2/9/21	118.99	4421.49
AWC-04	616584	598949.929	3468717.084	4540.48	7/20/21	121.31	4419.17
AWC-04	616584	598949.929	3468717.084	4540.48	1/31/22	119.33	4421.15
AWC-04	616584	598949.929	3468717.084	4540.48	7/18/22	123.88	4416.60
AWC-04	616584	598949.929	3468717.084	4540.48	1/30/23	122.49	4417.99
AWC-04	616584	598949.929	3468717.084	4540.48	8/8/23	124.33	4416.15
AWC-04	616584	598949.929	3468717.084	4540.48	1/22/24	118.83	4421.65
AWC-04	616584	598949.929	3468717.084	4540.48	8/1/24	122.48	4418.00
AWC-05	590620	599269.904	3468541.692	4542.51	4/8/08	284	4258.51
AWC-05	590620	599269.904	3468541.692	4542.51	8/27/08	299.65	4242.86
AWC-05	590620	599269.904	3468541.692	4542.51	10/23/08	284	4258.51
AWC-05	590620	599269.904	3468541.692	4542.51	4/22/09	286	4256.51
AWC-05	590620	599269.904	3468541.692	4542.51	6/3/09	125	4417.51
AWC-05	590620	599269.904	3468541.692	4542.51	10/9/09	289	4253.51
AWC-05	590620	599269.904	3468541.692	4542.51	4/23/10	278	4264.51
AWC-05	590620	599269.904	3468541.692	4542.51	4/11/13	229.56	4312.95
AWC-05	590620	599269.904	3468541.692	4542.51	7/16/13	203.17	4339.34
AWC-05	590620	599269.904	3468541.692	4542.51	10/7/13	142.00	4400.51
AWC-05	590620	599269.904	3468541.692	4542.51	1/7/14	123.09	4419.42
AWC-05	590620	599269.904	3468541.692	4542.51	5/14/14	346.75	4195.76
AWC-05	590620	599269.904	3468541.692	4542.51	7/16/14	346.34	4196.17

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
AWC-05	590620	599269.904	3468541.692	4542.51	10/15/14	316.16	4226.35
AWC-05	590620	599269.904	3468541.692	4542.51	1/29/15	133.98	4408.53
AWC-05	590620	599269.904	3468541.692	4542.51	5/18/15	148.05	4394.46
AWC-05	590620	599269.904	3468541.692	4542.51	7/21/15	120.84	4421.67
AWC-05	590620	599269.904	3468541.692	4542.51	10/1/15	116	4426.51
AWC-05	590620	599269.904	3468541.692	4542.51	1/13/16	116.22	4426.29
AWC-05	590620	599269.904	3468541.692	4542.51	7/19/16	329.30	4213.21
AWC-05	590620	599269.904	3468541.692	4542.51	1/19/17	318.24	4224.27
AWC-05	590620	599269.904	3468541.692	4542.51	9/6/17	322.50	4220.01
AWC-05	590620	599269.904	3468541.692	4542.51	1/17/18	194.14	4348.37
AWC-05	590620	599269.904	3468541.692	4542.51	7/25/18	132.92	4409.59
AWC-05	590620	599269.904	3468541.692	4542.51	1/16/19	147.85	4394.66
AWC-05	590620	599269.904	3468541.692	4542.51	7/23/19	195.46	4347.05
AWC-05	590620	599269.904	3468541.692	4542.51	1/13/20	143.20	4399.31
AWC-05	590620	599269.904	3468541.692	4542.51	8/3/20	156.45	4386.06
AWC-05	590620	599269.904	3468541.692	4542.51	1/4/21	140.31	4402.20
AWC-05	590620	599269.904	3468541.692	4542.51	7/20/21	188.07	4354.44
AWC-05	590620	599269.904	3468541.692	4542.51	1/31/22	158.80	4383.71
AWC-05	590620	599269.904	3468541.692	4542.51	7/18/22	190.84	4351.67
AWC-05	590620	599269.904	3468541.692	4542.51	2/16/23	179.00	4363.51
AWC-05	590620	599269.904	3468541.692	4542.51	1/22/24	278.29	4264.22
AWC-05	590620	599269.904	3468541.692	4542.51	8/1/24	279.64	4262.87
BANKS 987	647987	606981.912	3469206.194	4648.18	2/27/08	208.00	4440.18
BANKS 987	647987	606981.912	3469206.194	4648.18	5/12/08	216.30	4431.88
BANKS 987	647987	606981.912	3469206.194	4648.18	7/21/08	228.95	4419.23
BANKS 987	647987	606981.912	3469206.194	4648.18	10/13/08	228.20	4419.98
BANKS 987	647987	606981.912	3469206.194	4648.18	1/21/09	206.64	4441.54
BANKS 987	647987	606981.912	3469206.194	4648.18	4/8/09	205.50	4442.68
BANKS 987	647987	606981.912	3469206.194	4648.18	7/9/09	235.68	4412.50
BANKS 987	647987	606981.912	3469206.194	4648.18	10/7/09	236.71	4411.47
BANKS 987	647987	606981.912	3469206.194	4648.18	2/25/10	216.98	4431.20
BANKS 987	647987	606981.912	3469206.194	4648.18	4/20/10	219.35	4428.83
BANKS 987	647987	606981.912	3469206.194	4648.18	7/20/10	235.60	4412.58
BANKS 987	647987	606981.912	3469206.194	4648.18	10/20/10	230.24	4417.94
BANKS 987	647987	606981.912	3469206.194	4648.18	1/17/11	215.28	4432.90
BANKS 987	647987	606981.912	3469206.194	4648.18	4/5/11	221.68	4426.50
BANKS 987	647987	606981.912	3469206.194	4648.18	7/11/11	237.39	4410.79
BANKS 987	647987	606981.912	3469206.194	4648.18	10/12/11	237.34	4410.84
BANKS 987	647987	606981.912	3469206.194	4648.18	1/31/12	228.95	4419.23
BANKS 987	647987	606981.912	3469206.194	4648.18	4/11/12	219.39	4428.79
BANKS 987	647987	606981.912	3469206.194	4648.18	7/6/12	232.59	4415.59
BANKS 987	647987	606981.912	3469206.194	4648.18	10/4/12	237.16	4411.02
BANKS 987	647987	606981.912	3469206.194	4648.18	1/18/13	237.81	4410.37
BANKS 987	647987	606981.912	3469206.194	4648.18	4/8/13	237.92	4410.26
BANKS 987	647987	606981.912	3469206.194	4648.18	7/9/13	238.32	4409.86
BANKS 987	647987	606981.912	3469206.194	4648.18	10/15/13	239.48	4408.70
BANKS 987	647987	606981.912	3469206.194	4648.18	1/14/14	239.53	4408.65
BANKS 987	647987	606981.912	3469206.194	4648.18	4/8/14	231.49	4416.69
BANKS 987	647987	606981.912	3469206.194	4648.18	7/8/14	228.85	4419.33
BANKS 987	647987	606981.912	3469206.194	4648.18	10/21/14	233.96	4414.22
BANKS 987	647987	606981.912	3469206.194	4648.18	1/26/15	230.87	4417.31
BANKS 987	647987	606981.912	3469206.194	4648.18	7/24/15	237.53	4410.65
BANKS 987	647987	606981.912	3469206.194	4648.18	1/11/16	237.42	4410.76
BANKS 987	647987	606981.912	3469206.194	4648.18	7/12/16	232.54	4415.64

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BANKS 987	647987	606981.912	3469206.194	4648.18	1/17/17	221.90	4426.28
BANKS 987	647987	606981.912	3469206.194	4648.18	7/26/17	233.25	4414.93
BANKS 987	647987	606981.912	3469206.194	4648.18	1/15/18	237.31	4410.87
BANKS 987	647987	606981.912	3469206.194	4648.18	7/30/18	237.12	4411.06
BANKS 987	647987	606981.912	3469206.194	4648.18	1/15/19	237.21	4410.97
BANKS 987	647987	606981.912	3469206.194	4648.18	7/11/19	237.42	4410.76
BANKS 987	647987	606981.912	3469206.194	4648.18	1/14/20	237.42	4410.76
BANKS 987	647987	606981.912	3469206.194	4648.18	8/13/20	237.29	4410.89
BANKS 987	647987	606981.912	3469206.194	4648.18	1/13/21	235.12	4413.06
BANKS 987	647987	606981.912	3469206.194	4648.18	7/20/21	237.31	4410.87
BANKS 987	647987	606981.912	3469206.194	4648.18	1/28/22	237.32	4410.86
BANKS 987	647987	606981.912	3469206.194	4648.18	7/11/22	237.28	4410.90
BANKS 987	647987	606981.912	3469206.194	4648.18	1/11/23	237.30	4410.88
BANKS 987	647987	606981.912	3469206.194	4648.18	7/25/23	237.30	4410.88
BANKS 987	647987	606981.912	3469206.194	4648.18	1/17/24	238.05	4410.13
BANKS 987	647987	606981.912	3469206.194	4648.18	8/9/24	225.02	4423.16
BARTON 919	644919	606243.85	3469076.689	4692.36	5/12/08	113.71	4578.65
BARTON 919	644919	606243.85	3469076.689	4692.36	7/23/08	113.56	4578.80
BARTON 919	644919	606243.85	3469076.689	4692.36	10/16/08	113.20	4579.16
BARTON 919	644919	606243.850	3469076.689	4692.36	3/11/09	112.92	4579.44
BARTON 919	644919	606243.850	3469076.689	4692.36	4/10/09	112.89	4579.47
BARTON 919	644919	606243.850	3469076.689	4692.36	7/7/09	112.86	4579.50
BARTON 919	644919	606243.850	3469076.689	4692.36	7/17/13	114.18	4578.18
BARTON 919	644919	606243.850	3469076.689	4692.36	1/14/14	113.96	4578.40
BARTON 919	644919	606243.850	3469076.689	4692.36	7/17/14	113.42	4578.94
BARTON 919	644919	606243.850	3469076.689	4692.36	7/20/15	113.22	4579.14
BARTON 919	644919	606243.850	3469076.689	4692.36	1/11/16	113.33	4579.03
BARTON 919	644919	606243.850	3469076.689	4692.36	7/19/16	113.35	4579.01
BARTON 919	644919	606243.850	3469076.689	4692.36	1/17/17	113.47	4578.89
BARTON 919	644919	606243.850	3469076.689	4692.36	7/14/17	113.52	4578.84
BARTON 919	644919	606243.850	3469076.689	4692.36	1/15/18	113.88	4578.48
BARTON 919	644919	606243.85	3469076.689	4692.36	7/17/18	113.95	4578.41
BARTON 919	644919	606243.85	3469076.689	4692.36	1/15/19	114.27	4578.09
BARTON 919	644919	606243.850	3469076.689	4692.36	7/11/19	113.72	4578.64
BARTON 919	644919	606243.850	3469076.689	4692.36	1/21/20	113.72	4578.64
BF-01	539783	604169.077	3472151.593	4835.23	3/4/08	348.99	4486.24
BF-01	539783	604169.077	3472151.593	4835.23	5/23/08	348.80	4486.43
BF-01	539783	604169.077	3472151.593	4835.23	8/5/08	348.66	4486.57
BF-01	539783	604169.077	3472151.593	4835.23	11/5/08	348.94	4486.29
BF-01	539783	604169.077	3472151.593	4835.23	2/20/09	348.78	4486.45
BF-01	539783	604169.077	3472151.593	4835.23	5/6/09	348.73	4486.50
BF-01	539783	604169.077	3472151.593	4835.23	8/17/09	348.73	4486.50
BF-01	539783	604169.077	3472151.593	4835.23	11/4/09	348.65	4486.58
BF-01	539783	604169.077	3472151.593	4835.23	3/1/10	348.84	4486.39
BF-01	539783	604169.077	3472151.593	4835.23	4/7/10	348.70	4486.53
BF-01	539783	604169.077	3472151.593	4835.23	7/6/10	348.69	4486.54
BF-01	539783	604169.077	3472151.593	4835.23	7/13/11	348.67	4486.56
BF-01	539783	604169.077	3472151.593	4835.23	2/1/12	347.84	4487.39
BF-01	539783	604169.077	3472151.593	4835.23	8/13/12	343.95	4491.28
BIMA	577927	606001.245	3471852.804	4802.05	5/13/08	367.31	4434.74
BIMA	577927	606001.245	3471852.804	4802.05	8/18/08	370.24	4431.81
BIMA	577927	606001.245	3471852.804	4802.05	10/23/08	353.96	4448.09
BIMA	577927	606001.245	3471852.804	4802.05	1/20/09	353.07	4448.98
BIMA	577927	606001.245	3471852.804	4802.05	4/7/09	357.76	4444.29

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BIMA	577927	606001.245	3471852.804	4802.05	7/8/09	365.44	4436.61
BIMA	577927	606001.245	3471852.804	4802.05	10/5/09	370.11	4431.94
BIMA	577927	606001.245	3471852.804	4802.05	4/19/10	382.25	4419.80
BIMA	577927	606001.245	3471852.804	4802.05	7/21/10	386.89	4415.16
BIMA	577927	606001.245	3471852.804	4802.05	10/18/10	387.39	4414.66
BIMA	577927	606001.245	3471852.804	4802.05	1/19/11	391.47	4410.58
BIMA	577927	606001.245	3471852.804	4802.05	4/4/11	395.22	4406.83
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/27/08	62.05	4743.05
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	11/11/08	60.95	4744.15
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/25/09	61.43	4743.67
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	4/28/09	62.01	4743.09
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/4/09	62.96	4742.14
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	10/27/09	63.61	4741.49
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/17/10	64.51	4740.59
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	4/15/10	65.05	4740.05
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/7/10	65.83	4739.27
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/10/11	67.74	4737.36
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/12/11	69.37	4735.73
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/8/12	70.33	4734.77
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/14/12	71.73	4733.37
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/14/13	72.95	4732.15
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/14/13	73.82	4731.28
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/13/14	73.79	4731.31
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/22/14	74.14	4730.96
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/4/15	73.70	4731.40
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	9/10/15	74.12	4730.98
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	3/3/16	74.30	4730.80
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/17/16	75.02	4730.08
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	3/1/17	75.62	4729.48
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/24/17	76.16	4728.94
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/14/18	76.97	4728.13
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/10/18	77.70	4727.40
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/5/19	78.44	4726.66
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/31/19	78.42	4726.68
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/5/20	77.75	4727.35
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/12/20	76.38	4728.72
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/3/21	76.88	4728.22
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/14/21	78.06	4727.04
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	1/31/22	78.97	4726.13
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/14/22	79.60	4725.50
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	2/28/23	80.29	4724.81
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/1/23	80.83	4724.27
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	3/12/24	81.73	4723.37
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	7/10/24	82.09	4723.01
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/18/08	138.05	4445.92
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	11/4/08	137.95	4446.02
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/19/09	138.19	4445.78
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	5/11/09	138.46	4445.51
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/6/09	139.02	4444.95
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	10/26/09	139.60	4444.37
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	3/3/10	140.03	4443.94
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	4/8/10	140.07	4443.90
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/1/10	140.70	4443.27
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/14/11	141.41	4442.56

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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/12/11	142.21	4441.76
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/23/12	143.90	4440.07
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/10/12	143.70	4440.27
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/15/13	144.53	4439.44
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/27/13	145.10	4438.87
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/11/14	145.08	4438.89
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/21/14	145.36	4438.61
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/5/15	144.79	4439.18
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	5/28/15	144.90	4439.07
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	9/14/15	145.24	4438.73
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	10/21/15	145.39	4438.58
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	3/3/16	145.18	4438.79
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/18/16	145.94	4438.03
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	3/1/17	146.32	4437.65
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/26/17	146.84	4437.13
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/8/18	147.16	4436.81
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/10/18	147.92	4436.05
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/5/19	148.88	4435.09
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/6/19	149.47	4434.50
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/6/20	149.99	4433.98
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/12/20	150.17	4433.80
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	2/3/21	151.16	4432.81
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/27/21	151.74	4432.23
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	1/31/22	152.30	4431.67
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/1/22	152.68	4431.29
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	3/1/23	152.52	4431.45
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	8/29/23	152.97	4431.00
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	3/13/24	154.02	4429.95
BMO-2008-3B	909147	602012.923	3467919.582	4583.97	7/31/24	154.03	4429.94
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	12/11/08	130.77	4442.40
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	2/18/09	130.58	4442.59
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	4/30/09	131.24	4441.93
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	8/6/09	131.96	4441.21
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	10/27/09	132.04	4441.13
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	2/24/10	131.82	4441.35
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	4/16/10	132.65	4440.52
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	7/2/10	133.20	4439.97
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	2/15/11	133.78	4439.39
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	7/22/11	134.80	4438.37
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	2/23/12	134.64	4438.53
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	9/17/12	136.15	4437.02
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	1/15/13	136.13	4437.04
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	4/15/13	136.78	4436.39
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	9/18/13	137.04	4436.13
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	1/9/14	136.96	4436.21
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	7/18/14	137.49	4435.68
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	1/12/16	136.54	4436.63
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	9/30/17	138.68	4434.49
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	1/18/18	138.71	4434.46
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	7/26/18	139.42	4433.75
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	1/14/19	139.96	4433.21
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	7/22/19	140.40	4432.77
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	1/22/20	140.66	4432.51
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	8/11/20	140.89	4432.28

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BMO-2008-4B	910096	601099.405	3468383.43	4573.17	7/22/21	142.25	4430.92
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	2/1/22	142.71	4430.46
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	8/1/22	143.09	4430.08
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	1/12/23	143.45	4429.72
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	7/20/23	143.49	4429.68
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	1/15/24	144.43	4428.74
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	7/26/24	145.18	4427.99
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	8/15/24	145.02	4428.15
BMO-2008-4B	910096	601099.405	3468383.43	4573.17	9/11/24	145.30	4427.87
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	9/30/08	145.10	4440.00
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/18/09	144.35	4440.75
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	4/27/09	144.78	4440.32
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	8/4/09	145.36	4439.74
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	10/29/09	145.88	4439.22
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/15/10	145.42	4439.68
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	4/15/10	145.80	4439.30
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/7/10	146.59	4438.51
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	10/5/10	147.00	4438.10
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/14/11	147.56	4437.54
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	5/12/11	148.04	4437.06
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/13/11	148.31	4436.79
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	12/7/11	148.45	4436.65
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/3/12	148.47	4436.63
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	4/18/12	149.02	4436.08
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/10/12	148.65	4436.45
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	10/16/12	149.91	4435.19
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/7/13	149.94	4435.16
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/12/13	150.06	4435.04
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	5/15/13	150.55	4434.55
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	8/20/13	150.82	4434.28
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	11/1/13	150.77	4434.33
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/11/14	150.33	4434.77
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	5/7/14	150.83	4434.27
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	8/19/14	151.13	4433.97
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	11/13/14	150.78	4434.32
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/3/15	150.10	4435.00
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	5/28/15	150.47	4434.63
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	9/8/15	150.38	4434.72
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	10/21/15	150.23	4434.87
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	3/14/16	149.76	4435.34
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	9/14/16	151.31	4433.79
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	3/1/17	151.56	4433.54
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	8/1/17	151.95	4433.15
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/8/18	151.97	4433.13
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	3/8/18	152.04	4433.06
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	4/11/18	152.27	4432.83
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	5/29/18	152.32	4432.78
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	6/19/18	152.74	4432.36
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/25/18	152.96	4432.14
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/4/19	153.41	4431.69
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	8/7/19	153.76	4431.34
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/6/20	153.99	4431.11
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	8/11/20	154.37	4430.73
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/2/21	155.00	4430.10

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/12/21	155.61	4429.49
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	1/31/22	155.98	4429.12
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/11/22	156.37	4428.73
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	2/27/23	156.52	4428.58
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/31/23	157.14	4427.96
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	3/13/24	157.95	4427.15
BMO-2008-5B	909653	600438.159	3468994.715	4585.10	7/15/24	158.57	4426.53
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	10/2/08	146.65	4438.37
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/18/09	145.97	4439.05
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	4/27/09	146.46	4438.56
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	8/4/09	147.13	4437.89
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	10/29/09	147.68	4437.34
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/15/10	147.07	4437.95
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	4/16/10	147.34	4437.68
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/7/10	148.28	4436.74
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	10/5/10	148.68	4436.34
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/14/11	148.74	4436.28
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	5/12/11	149.66	4435.36
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/12/11	150.20	4434.82
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	12/7/11	150.30	4434.72
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/3/12	150.05	4434.97
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	4/18/12	150.70	4434.32
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/10/12	151.65	4433.37
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	10/16/12	151.77	4433.25
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/12/13	152.00	4433.02
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	5/15/13	152.42	4432.60
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	8/20/13	152.76	4432.26
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	11/1/13	152.53	4432.49
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/11/14	151.78	4433.24
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	5/7/14	152.26	4432.76
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	8/19/14	152.78	4432.24
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	11/13/14	152.27	4432.75
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/3/15	151.61	4433.41
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	5/19/15	151.58	4433.44
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	9/8/15	151.63	4433.39
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	3/14/16	150.87	4434.15
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	9/14/16	152.68	4432.34
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	3/1/17	152.84	4432.18
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	8/1/17	153.27	4431.75
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/8/18	153.03	4431.99
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/25/18	154.19	4430.83
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/4/19	154.54	4430.48
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	8/7/19	155.00	4430.02
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/6/20	155.20	4429.82
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	8/11/20	155.85	4429.17
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/2/21	156.20	4428.82
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/12/21	157.05	4427.97
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	1/31/22	157.21	4427.81
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/11/22	157.72	4427.30
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	2/27/23	157.67	4427.35
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/31/23	158.48	4426.54
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	3/13/24	159.32	4425.70
BMO-2008-5M	909552	600445.071	3468994.282	4585.02	7/15/24	160.01	4425.01
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/16/08	190.13	4437.31

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	11/4/08	190.23	4437.21
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/19/09	189.71	4437.73
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	4/27/09	189.99	4437.45
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	8/4/09	190.80	4436.64
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	10/26/09	191.04	4436.40
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/15/10	190.82	4436.62
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	4/15/10	190.75	4436.69
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/1/10	191.43	4436.01
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	10/5/10	192.50	4434.94
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/14/11	192.19	4435.25
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	5/12/11	192.70	4434.74
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/12/11	193.30	4434.14
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	12/7/11	193.85	4433.59
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/3/12	193.60	4433.84
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	4/18/12	193.90	4433.54
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/10/12	194.75	4432.69
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	10/16/12	195.71	4431.73
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/12/13	195.42	4432.02
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	5/15/13	195.91	4431.53
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	8/20/13	196.23	4431.21
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	11/1/13	195.77	4431.67
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/11/14	195.24	4432.20
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	5/7/14	195.47	4431.97
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	8/19/14	196.36	4431.08
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	11/13/14	195.74	4431.70
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/3/15	195.12	4432.32
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	5/19/15	195.00	4432.44
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	9/8/15	195.48	4431.96
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	10/21/15	195.37	4432.07
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	3/14/16	195.00	4432.44
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	9/14/16	196.36	4431.08
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	3/1/17	196.33	4431.11
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/10/17	196.88	4430.56
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/8/18	197	4430.44
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/10/18	197.57	4429.87
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/4/19	197.89	4429.55
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	8/6/19	198.57	4428.87
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/3/20	198.70	4428.74
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/22/20	199.04	4428.40
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/2/21	199.74	4427.70
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/12/21	200.29	4427.15
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	1/31/22	200.78	4426.66
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/11/22	201.19	4426.25
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	2/27/23	201.24	4426.20
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/31/23	201.96	4425.48
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	3/13/24	202.72	4424.72
BMO-2008-6B	909146	600366.523	3469820.644	4627.44	7/15/24	203.30	4424.14
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/10/08	191.63	4435.27
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	11/4/08	190.25	4436.65
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/20/09	190.70	4436.20
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	4/28/09	190.98	4435.92
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	8/4/09	191.77	4435.13
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	10/26/09	192.14	4434.76
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/15/10	191.78	4435.12

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	4/15/10	191.64	4435.26
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/1/10	192.53	4434.37
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	10/5/10	192.96	4433.94
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/14/11	193.14	4433.76
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	5/12/11	193.68	4433.22
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/12/11	194.47	4432.43
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	12/7/11	194.92	4431.98
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/3/12	194.65	4432.25
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	4/18/12	195.00	4431.90
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/10/12	196.10	4430.80
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	10/16/12	196.53	4430.37
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/12/13	196.45	4430.45
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	5/15/13	196.90	4430.00
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	8/20/13	197.43	4429.47
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	11/1/13	196.53	4430.37
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/11/14	196.18	4430.72
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	5/7/14	196.33	4430.57
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	8/19/14	197.40	4429.50
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	11/13/14	196.32	4430.58
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/3/15	195.90	4431.00
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	5/19/15	195.64	4431.26
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	9/8/15	196.32	4430.58
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	3/14/16	195.87	4431.03
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	9/14/16	197.37	4429.53
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	3/1/17	197.24	4429.66
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/10/17	197.92	4428.98
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/8/18	197.96	4428.94
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/10/18	198.63	4428.27
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/4/19	198.78	4428.12
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	8/6/19	199.61	4427.29
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/3/20	199.52	4427.38
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/22/20	200.02	4426.88
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/2/21	200.75	4426.15
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/12/21	201.43	4425.47
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	1/31/22	201.70	4425.20
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/11/22	200.38	4426.52
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	2/27/23	202.15	4424.75
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	7/31/23	203.14	4423.76
BMO-2008-6M	909019	600367.943	3469813.885	4626.90	3/13/24	203.98	4422.92
BMO-2008-6M	909019	600367.943	3469813.885	4646.90	7/15/24	204.63	4442.27
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	7/14/08	238.31	4450.02
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	11/6/08	239.69	4448.64
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	2/18/09	238.90	4449.43
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	5/11/09	239.03	4449.30
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	8/6/09	239.17	4449.16
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	10/27/09	239.55	4448.78
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	2/17/10	239.98	4448.35
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	4/15/10	240.13	4448.20
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	7/6/10	240.28	4448.05
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	2/14/11	241.26	4447.07
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	7/15/11	241.81	4446.52
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	1/30/12	242.44	4445.89
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	7/11/12	243.0	4445.33
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	2/15/13	243.8	4444.53

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	8/28/13	244.32	4444.01
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	2/13/14	244.31	4444.02
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	7/22/14	244.66	4443.67
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	2/5/15	243.91	4444.42
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	9/14/15	244.59	4443.74
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	3/16/16	244.91	4443.42
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	8/18/16	245.23	4443.10
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	3/7/17	245.44	4442.89
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	7/10/17	245.73	4442.60
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	2/1/18	245.82	4442.51
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	7/23/18	246.18	4442.15
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	2/11/19	246.46	4441.87
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	8/8/19	246.80	4441.53
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	2/18/20	247.28	4441.05
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	7/23/20	247.68	4440.65
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	3/17/21	248.40	4439.93
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	8/2/21	248.81	4439.52
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	3/10/22	249.53	4438.80
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	7/18/22	249.92	4438.41
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	3/13/23	250.58	4437.75
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	9/5/23	251.0	4437.33
BMO-2008-7M	908794	603099.165	3470029.28	4688.33	3/19/24	251.47	4436.86
BMO-2008-7M	908794	603099.165	3470029.280	4688.33	7/29/24	252.03	4436.30
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	12/5/08	297.94	4455.31
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/19/09	297.63	4455.62
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	5/5/09	297.37	4455.88
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	8/10/09	297.53	4455.72
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	11/9/09	297.85	4455.40
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/3/10	298.37	4454.88
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	4/16/10	298.46	4454.79
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/1/10	298.64	4454.61
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/11/11	299.56	4453.69
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	5/13/11	299.78	4453.47
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/15/11	300.00	4453.25
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	1/30/12	300.52	4452.73
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/12/12	301.15	4452.10
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/13/13	302.05	4451.20
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	8/12/13	302.48	4450.77
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/24/14	301.86	4451.39
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/5/15	299.56	4453.69
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	9/15/15	300.14	4453.11
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/16/16	300.76	4452.49
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	9/15/16	301.26	4451.99
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/7/17	301.61	4451.64
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/10/17	301.89	4451.36
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/1/18	301.83	4451.42
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/23/18	302.83	4450.42
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/11/19	302.84	4450.41
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	8/8/19	303.42	4449.83
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	2/18/20	304.19	4449.06
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/23/20	304.74	4448.51
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/17/21	305.47	4447.78
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	8/2/21	306.10	4447.15
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/10/22	307.15	4446.10

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	7/18/22	307.74	4445.51
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/13/23	308.44	4444.81
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	9/6/23	309.06	4444.19
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	3/19/24	309.67	4443.58
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	9/9/24	310.10	4443.15
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	12/9/08	299.79	4452.66
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/19/09	298.32	4454.13
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	5/5/09	298.27	4454.18
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	8/10/09	298.57	4453.88
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	11/5/09	298.81	4453.64
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/3/10	299.18	4453.27
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	4/16/10	299.42	4453.03
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/1/10	299.70	4452.75
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	1/24/11	300.46	4451.99
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	5/13/11	301.00	4451.45
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/15/11	300.96	4451.49
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	1/30/12	301.60	4450.85
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/12/12	302.45	4450.00
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/14/13	303.07	4449.38
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	8/12/13	303.60	4448.85
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/19/14	303.11	4449.34
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/24/14	303.48	4448.97
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/5/15	301.98	4450.47
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	9/15/15	302.46	4449.99
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/16/16	303.19	4449.26
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	9/15/16	303.43	4449.02
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/7/17	303.85	4448.60
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/10/17	304.09	4448.36
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/1/18	303.94	4448.51
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/23/18	304.20	4448.25
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/11/19	304.09	4448.36
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	8/8/19	304.8	4447.65
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	2/18/20	304.90	4447.55
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/23/20	305.42	4447.03
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/17/21	306.51	4445.94
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	8/2/21	302.32	4450.13
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/10/22	302.88	4449.57
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	7/18/22	303.76	4448.69
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/13/23	304.53	4447.92
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	9/6/23	305.05	4447.40
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	3/19/24	305.82	4446.63
BMO-2008-8M	909711	604167.912	3471127.902	4752.45	9/18/24	306.73	4445.72
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	8/8/08	287.17	4475.44
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	11/5/08	287.65	4474.96
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/26/09	285.65	4476.96
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	5/12/09	285.28	4477.33
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	8/17/09	286.09	4476.52
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	11/3/09	286.55	4476.06
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/4/10	287.45	4475.16
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	4/6/10	287.81	4474.80
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/1/10	288.26	4474.35
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/10/11	289.77	4472.84
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	5/13/11	290.47	4472.14
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/15/11	290.95	4471.66

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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/1/12	293.44	4469.17
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/12/12	294.65	4467.96
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/13/13	296.67	4465.94
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	8/12/13	297.63	4464.98
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/18/14	293.68	4468.93
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/24/14	293.53	4469.08
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/5/15	286.01	4476.60
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	9/14/15	286.34	4476.27
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/16/16	287.22	4475.39
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	9/15/16	289.35	4473.26
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/7/17	289.83	4472.78
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/11/17	291.03	4471.58
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/1/18	289.66	4472.95
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/26/18	291.78	4470.83
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/11/19	291.42	4471.19
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	8/12/19	292.67	4469.94
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	2/20/20	290.43	4472.18
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/20/20	288.57	4474.04
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/17/21	291.21	4471.40
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	8/18/21	293.59	4469.02
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/10/22	294.78	4467.83
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/18/22	296.39	4466.22
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/13/23	297.45	4465.16
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	8/14/23	298.64	4463.97
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	3/19/24	300.29	4462.32
BMO-2008-9M	909255	604668.669	3471121.675	4762.61	7/29/24	301.46	4461.15
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/20/08	521.75	4270.46
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	11/5/08	520.50	4271.71
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	2/25/09	516.72	4275.49
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	5/12/09	514.68	4277.53
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/11/09	513.23	4278.98
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	11/2/09	509.43	4282.78
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/4/10	510.88	4281.33
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	4/8/10	506.31	4285.90
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	7/2/10	511.80	4280.41
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	7/13/11	512.16	4280.05
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	2/2/12	511.34	4280.87
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	7/13/12	510.90	4281.31
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	2/18/13	509.91	4282.30
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/13/13	509.32	4282.89
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/7/14	507.21	4285.00
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	2/10/15	463.22	4328.99
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	9/14/15	439.93	4352.28
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/16/16	364.33	4427.88
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/17/16	337.26	4454.95
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/7/17	332.86	4459.35
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	7/11/17	337.89	4454.32
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	2/1/18	337.84	4454.37
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	7/26/18	333.28	4458.93
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	1/28/19	326.80	4465.41
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/1/19	316.92	4475.29
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	2/17/20	324.94	4467.27
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	7/20/20	298.10	4494.11
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/16/21	260.36	4531.85

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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/17/21	262.84	4529.37
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/9/22	284.78	4507.43
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	9/7/22	291.06	4501.15
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/13/23	301.37	4490.84
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/15/23	313.55	4478.66
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	3/19/24	335.82	4456.39
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/28/24	350.11	4442.10
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/4/08	299.28	4494.17
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	11/5/08	295.89	4497.56
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	2/25/09	289.84	4503.61
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	5/6/09	289.35	4504.10
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/11/09	289.09	4504.36
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	11/2/09	289.77	4503.68
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/10/10	289.58	4503.87
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	4/7/10	289.5	4503.95
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	7/6/10	288.93	4504.52
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	7/13/11	301.02	4492.43
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	2/1/12	326.51	4466.94
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	7/13/12	328.7	4464.75
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/19/13	283.97	4509.48
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	2/10/15	207.58	4585.87
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	9/14/15	200.36	4593.09
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/16/16	195.53	4597.92
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/17/16	201.47	4591.98
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/7/17	210.83	4582.62
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/9/17	201.50	4591.95
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	2/1/18	201.09	4592.36
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	7/26/18	200.53	4592.92
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	1/28/19	201.56	4591.89
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/1/19	200.43	4593.02
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	2/17/20	201.74	4591.71
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	7/20/20	196.63	4596.82
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/16/21	192.68	4600.77
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/17/21	197.91	4595.54
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/9/22	200.31	4593.14
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	9/7/22	206.21	4587.24
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/13/23	217.39	4576.06
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/15/23	216.19	4577.26
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	3/19/24	224.91	4568.54
BMO-2008-10GU	909272	605267.551	3471731.866	4793.45	8/28/24	224.06	4569.39
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/22/08	577.76	4266.91
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	11/12/08	576.80	4267.87
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/26/09	575.91	4268.76
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	4/8/09	575.46	4269.21
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/12/09	574.84	4269.83
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	11/9/09	573.41	4271.26
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	3/1/10	573.68	4270.99
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	4/9/10	573.56	4271.11
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	7/1/10	572.97	4271.70
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/10/11	571.61	4273.06
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	7/22/11	571.20	4273.47
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	1/31/12	569.83	4274.84
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/14/12	569.70	4274.97
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/13/13	568.75	4275.92

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/27/13	566.50	4278.17
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/19/14	564.68	4279.99
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/14/14	564.24	4280.43
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/5/15	560.60	4284.07
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	9/14/15	557.84	4286.83
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	3/15/16	556.04	4288.63
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/17/16	554.94	4289.73
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	3/2/17	554.27	4290.40
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	7/11/17	554.02	4290.65
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/12/18	552.11	4292.56
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	7/12/18	552.20	4292.47
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	1/28/19	550.72	4293.95
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/6/19	550.89	4293.78
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/4/20	548.35	4296.32
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/13/20	546.77	4297.90
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/3/21	546.25	4298.42
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	7/22/21	546.07	4298.60
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	2/1/22	543.17	4301.50
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/1/22	543.22	4301.45
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	3/6/23	539.98	4304.69
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/10/23	540.15	4304.52
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	3/12/24	540.17	4304.50
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	7/17/24	540.60	4304.07
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	10/3/08	206.42	4442.79
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/17/09	206.11	4443.10
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	5/6/09	206.32	4442.89
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/5/09	206.79	4442.42
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	10/28/09	207.08	4442.13
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/16/10	207.26	4441.95
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	4/14/10	207.27	4441.94
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	7/6/10	207.68	4441.53
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/10/11	208.51	4440.70
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	5/13/11	208.95	4440.26
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	7/15/11	209.36	4439.85
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/9/12	209.78	4439.43
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	7/11/12	210.60	4438.61
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/27/13	211.40	4437.81
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	9/4/13	212.15	4437.06
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/19/14	212.68	4436.53
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/4/15	212.28	4436.93
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	9/15/15	212.37	4436.84
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	3/16/16	211.95	4437.26
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	9/21/16	212.84	4436.37
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	3/7/17	213.15	4436.06
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/2/17	213.57	4435.64
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/1/18	213.6	4435.61
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/6/18	214.22	4434.99
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/11/19	214.79	4434.42
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/20/19	215.16	4434.05
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	2/20/20	215.46	4433.75
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/5/20	215.70	4433.51
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	3/15/21	216.27	4432.94
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	8/16/21	216.85	4432.36
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	3/9/22	217.35	4431.86

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	9/6/22	217.94	4431.27
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	3/13/23	218.11	4431.10
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	9/11/23	218.64	4430.57
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	3/19/24	219.18	4430.03
BMO-2008-13B	909551	601657.612	3470076.358	4649.21	9/9/24	219.85	4429.36
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	12/3/08	206.00	4441.15
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/17/09	208.74	4438.41
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	4/29/09	208.53	4438.62
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/5/09	208.85	4438.30
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	10/28/09	208.91	4438.24
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/16/10	209.16	4437.99
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	4/13/10	209.20	4437.95
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	7/2/10	209.30	4437.85
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/10/11	210.36	4436.79
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	5/13/11	210.50	4436.65
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	7/15/11	210.67	4436.48
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/6/12	210.90	4436.25
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/13/12	211.42	4435.73
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/15/13	212.13	4435.02
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	9/6/13	212.52	4434.63
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/20/14	213.14	4434.01
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/4/15	212.97	4434.18
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	9/15/15	212.91	4434.24
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	3/16/16	212.76	4434.39
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	9/21/16	213.22	4433.93
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	3/7/17	213.6	4433.55
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/15/17	213.71	4433.44
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/1/18	214.09	4433.06
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/6/18	214.37	4432.78
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/11/19	214.57	4432.58
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/20/19	215.1	4432.05
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	2/20/20	215.46	4431.69
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/5/20	215.73	4431.42
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	3/15/21	216.14	4431.01
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	8/16/21	216.39	4430.76
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	3/9/22	216.96	4430.19
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	9/6/22	217.54	4429.61
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	3/13/23	217.85	4429.30
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	9/11/23	218.21	4428.94
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	3/19/24	218.68	4428.47
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	9/9/24	219.22	4427.93
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	9/7/10	224.13	4494.42
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	11/10/10	222.97	4495.58
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	2/11/11	222.01	4496.54
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	5/12/11	223.08	4495.47
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	8/31/11	224.38	4494.17
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	12/13/11	222.86	4495.69
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	2/8/12	222.97	4495.58
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	4/24/12	223.87	4494.68
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	7/9/12	225.05	4493.50
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	10/17/12	225.63	4492.92
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	2/13/13	226.85	4491.70
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	5/8/13	227.45	4491.10
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	8/15/13	228.10	4490.45

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	11/4/13	224.41	4494.14
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	2/12/14	222.90	4495.65
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	6/2/14	222.80	4495.75
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	8/4/14	223.14	4495.41
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	11/12/14	219.47	4499.08
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	2/5/15	214.19	4504.36
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	9/9/15	211.68	4506.87
BMO-2010-1M	219957	605581.263	3469935.75	4718.55	3/16/16	210.91	4507.64
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	8/25/16	212.23	4506.32
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	3/7/17	212.69	4505.86
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	7/12/17	214.02	4504.53
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	2/1/18	213.31	4505.24
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	8/7/18	214.94	4503.61
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	2/11/19	213.87	4504.68
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	7/30/19	214.78	4503.77
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	2/5/20	213.19	4505.36
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	7/20/20	211.73	4506.82
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	2/2/21	212.26	4506.29
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	7/15/21	214.84	4503.71
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	3/10/22	215.92	4502.63
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	7/26/22	218.04	4500.51
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	3/13/23	219.33	4499.22
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	8/7/23	221.05	4497.50
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	3/19/24	223.62	4494.93
BMO-2010-1M	219957	605581.263	3469935.750	4718.55	7/11/24	225.02	4493.53
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	9/7/10	264.13	4482.03
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	11/11/10	263.94	4482.22
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/10/11	264.13	4482.03
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	5/13/11	266.97	4479.19
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/14/11	268.05	4478.11
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	12/13/11	270.98	4475.18
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	1/30/12	271.50	4474.66
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	4/18/12	272.31	4473.85
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/9/12	273.20	4472.96
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	10/17/12	274.27	4471.89
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/13/13	275.52	4470.64
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	5/8/13	276.05	4470.11
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	8/15/13	278.76	4467.40
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	11/4/13	273.26	4472.90
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/12/14	271.44	4474.72
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	5/8/14	270.65	4475.51
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	8/14/14	270.78	4475.38
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	11/12/14	263.19	4482.97
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/5/15	259.84	4486.32
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	9/14/15	260.92	4485.24
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	3/16/16	261.81	4484.35
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	9/13/16	264.66	4481.50
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	3/7/17	265.47	4480.69
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/12/17	267.14	4479.02
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/1/18	266.24	4479.92
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	8/7/18	268.92	4477.24
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/11/19	268.25	4477.91
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/30/19	269.21	4476.95
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/20/20	265.12	4481.04

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/21/20	262.38	4483.78
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	2/2/21	265.71	4480.45
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/15/21	268.91	4477.25
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	3/10/22	271.46	4474.70
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/26/22	273.45	4472.71
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	3/13/23	274.66	4471.50
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	8/7/23	276.34	4469.82
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	3/19/24	278.05	4468.11
BMO-2010-2M	219958	605685.549	3470564.646	4746.16	7/11/24	279.18	4466.98
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/28/10	115.38	4435.21
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	11/10/10	115.80	4434.79
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/20/11	115.46	4435.13
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	4/7/11	116.11	4434.48
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/13/11	117.30	4433.29
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	10/13/11	117.72	4432.87
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	2/2/12	117.18	4433.41
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	4/24/12	117.92	4432.67
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/5/12	118.84	4431.75
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	10/18/12	119.13	4431.46
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/16/13	118.89	4431.70
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	4/16/13	119.36	4431.23
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/23/13	120.02	4430.57
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	10/8/13	119.63	4430.96
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/15/14	118.96	4431.63
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	5/13/14	119.40	4431.19
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/15/14	120.06	4430.53
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	10/14/14	119.16	4431.43
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/28/15	118.46	4432.13
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	5/18/15	118.49	4432.10
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/22/15	118.81	4431.78
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	10/6/15	118.06	4432.53
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	2/2/16	117.39	4433.20
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/12/16	119.21	4431.38
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/18/17	119.89	4430.70
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/11/17	120.51	4430.08
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/8/18	119.84	4430.75
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/10/18	121.45	4429.14
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/8/19	121.92	4428.67
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/16/19	122.49	4428.10
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/6/20	122.64	4427.95
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	8/4/20	123.25	4427.34
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/5/21	123.76	4426.83
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/13/21	124.56	4426.03
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/24/22	124.89	4425.70
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	7/19/22	125.32	4425.27
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/31/23	125.11	4425.48
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	8/1/23	126.22	4424.37
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	1/31/24	127.00	4423.59
BMO-2010-3B	219970	599977.962	3468347.363	4550.59	8/6/24	128.84	4421.75
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/30/10	118.63	4431.90
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	11/10/10	118.75	4431.78
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/20/11	118.32	4432.21
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	4/7/11	119.09	4431.44
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	8/25/11	120.74	4429.79

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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	10/13/11	120.67	4429.86
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	2/2/12	119.91	4430.62
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	4/24/12	120.93	4429.60
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/5/12	122.05	4428.48
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	10/18/12	122.06	4428.47
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/16/13	121.86	4428.67
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	4/16/13	122.26	4428.27
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/23/13	122.97	4427.56
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	10/8/13	121.91	4428.62
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/15/14	120.91	4429.62
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	5/13/14	121.90	4428.63
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/15/14	121.92	4428.61
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	10/14/14	121.87	4428.66
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/28/15	120.63	4429.90
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	5/18/15	120.48	4430.05
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/22/15	120.42	4430.11
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	10/6/15	119.44	4431.09
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	2/2/16	118.65	4431.88
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/12/16	121.56	4428.97
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/18/17	122.27	4428.26
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/11/17	122.85	4427.68
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/8/18	121.24	4429.29
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/10/18	124.08	4426.45
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/8/19	123.97	4426.56
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/16/19	124.81	4425.72
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/6/20	124.82	4425.71
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	8/4/20	125.96	4424.57
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/5/21	125.98	4424.55
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/13/21	127.39	4423.14
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/24/22	127.02	4423.51
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	7/19/22	127.97	4422.56
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/31/23	126.97	4423.56
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	8/1/23	129.36	4421.17
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	1/31/24	129.63	4420.90
BMO-2010-3M	219969	599970.801	3468353.543	4550.53	8/6/24	131.07	4419.46
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	11/13/12	231.90	4487.86
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/27/13	233.20	4486.56
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	5/8/13	233.97	4485.79
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	8/14/13	233.96	4485.80
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	11/1/13	230.44	4489.32
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/13/14	229.85	4489.91
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	5/8/14	229.89	4489.87
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/22/14	229.94	4489.82
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	11/13/14	225.37	4494.39
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/4/15	222.57	4497.19
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	9/10/15	221.60	4498.16
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	3/3/16	214.86	4504.90
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	8/17/16	215.57	4504.19
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	3/2/17	216.10	4503.66
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/24/17	217.59	4502.17
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	8/21/17	217.55	4502.21
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/13/18	217.58	4502.18
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/16/18	219.60	4500.16
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	1/29/19	218.63	4501.13

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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/31/19	220.01	4499.75
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/4/20	218.70	4501.06
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/21/20	216.17	4503.59
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/2/21	216.78	4502.98
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/14/21	218.46	4501.30
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	2/1/22	219.48	4500.28
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/19/22	221.98	4497.78
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	3/1/23	222.51	4497.25
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	8/2/23	224.32	4495.44
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	3/12/24	226.62	4493.14
BMO-2012-1M	221388	606097.384	3469746.741	4719.76	7/10/24	228.03	4491.73
BMO-2014-1BL	917394	600570.805	3468231.44	4557.18	11/7/14	123.03	4434.15
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	1/29/15	123.53	4434.92
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	4/15/15	123.45	4435.00
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	5/18/15	123.93	4434.52
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	7/29/15	124.22	4434.23
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	10/7/15	123.58	4434.87
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	2/4/16	123.17	4435.28
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	4/6/16	123.61	4434.84
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	7/14/16	124.85	4433.60
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	11/2/16	124.93	4433.52
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	1/24/17	124.57	4433.88
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	7/13/17	126.19	4432.26
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	1/10/18	125.47	4432.98
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	7/12/18	127.11	4431.34
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	1/10/19	126.62	4431.83
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	7/18/19	127.19	4431.26
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	1/8/20	127.10	4431.35
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	8/6/20	127.50	4430.95
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	1/7/21	128.23	4430.22
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	3/9/21	128.36	4430.09
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	7/15/21	128.88	4429.57
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	1/26/22	129.55	4428.90
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	7/21/22	129.72	4428.73
BMO-2014-1BL	917394	600570.805	3468231.440	4558.45	2/15/23	130.09	4428.36
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	8/7/23	130.47	4427.98
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	2/6/24	131.30	4427.15
BMO-2014-1BL	917394	600570.805	3468231.44	4558.45	8/8/24	131.84	4426.61
BMO-2014-1BU	917393	600563.194	3468234.798	4557.18	11/13/14	123.51	4433.67
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/28/15	123.74	4434.80
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	4/15/15	123.90	4434.64
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	5/18/15	124.42	4434.12
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/29/15	124.65	4433.89
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	10/7/15	123.97	4434.57
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	2/4/16	123.43	4435.11
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	4/6/16	123.90	4434.64
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/14/16	125.23	4433.31
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	11/2/16	125.32	4433.22
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/24/17	124.86	4433.68
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/13/17	126.42	4432.12
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/10/18	125.73	4432.81
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/12/18	127.19	4431.35
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/10/19	126.86	4431.68
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/18/19	127.48	4431.06

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/8/20	127.39	4431.15
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	8/6/20	127.73	4430.81
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/7/21	128.49	4430.05
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/15/21	129.12	4429.42
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	1/26/22	129.77	4428.77
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	7/21/22	129.93	4428.61
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	2/15/23	130.32	4428.22
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	8/7/23	130.67	4427.87
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	2/6/24	131.69	4426.85
BMO-2014-1BU	917393	600563.194	3468234.798	4558.54	8/8/24	132.04	4426.50
BMO-2014-2BL	917452	600784.872	3468183.921	4560.31	11/20/14	126.15	4434.16
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/29/15	126.74	4435.06
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	4/15/15	126.70	4435.10
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	5/18/15	127.18	4434.62
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	7/29/15	127.43	4434.37
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	10/7/15	126.90	4434.90
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	2/4/16	126.68	4435.12
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	4/6/16	126.77	4435.03
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	7/14/16	127.85	4433.95
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	11/2/16	128.39	4433.41
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/24/17	127.73	4434.07
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	9/6/17	128.56	4433.24
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/10/18	129.09	4432.71
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	7/12/18	129.61	4432.19
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/10/19	129.96	4431.84
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	7/18/19	130.42	4431.38
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/8/20	130.43	4431.37
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	8/6/20	130.73	4431.07
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/7/21	131.50	4430.30
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	7/15/21	132.10	4429.70
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	1/26/22	132.83	4428.97
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	7/21/22	132.96	4428.84
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	2/15/23	133.30	4428.50
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	8/7/23	133.67	4428.13
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	2/6/24	134.81	4426.99
BMO-2014-2BL	917452	600784.872	3468183.921	4561.80	8/8/24	135.06	4426.74
BMO-2014-2BU	917453	600788.52	3468192.762	4560.31	12/1/14	126.73	4433.58
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	1/30/15	126.73	4435.12
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	4/15/15	126.65	4435.20
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	5/18/15	127.21	4434.64
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	7/29/15	127.49	4434.36
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	10/7/15	126.94	4434.91
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	2/4/16	126.56	4435.29
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	4/6/16	126.81	4435.04
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	7/14/16	127.93	4433.92
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	11/2/16	128.37	4433.48
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	1/24/17	127.75	4434.10
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	7/13/17	129.07	4432.78
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	1/10/18	129.01	4432.84
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	7/12/18	129.67	4432.18
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	1/10/19	129.99	4431.86
BMO-2014-2BU	917453	600788.520	3468192.762	4561.85	7/18/19	130.46	4431.39
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	1/8/20	130.35	4431.50
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	8/6/20	130.75	4431.10

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	1/7/21	131.51	4430.34
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	7/15/21	132.12	4429.73
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	1/26/22	132.81	4429.04
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	7/21/22	133.00	4428.85
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	2/15/23	133.27	4428.58
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	8/7/23	133.66	4428.19
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	2/6/24	134.76	4427.09
BMO-2014-2BU	917453	600788.52	3468192.762	4561.85	8/8/24	135.00	4426.85
BMO-2014-3BL	917527	600824.0155	3467793.1	4572.213	2/13/15	136.57	4435.64
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	4/15/15	138.35	4435.42
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	5/18/15	138.64	4435.13
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	7/29/15	138.86	4434.91
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	10/7/15	138.51	4435.26
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	2/4/16	138.14	4435.63
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	4/6/16	138.39	4435.38
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	7/14/16	139.44	4434.33
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	11/2/16	139.66	4434.11
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	1/25/17	139.54	4434.23
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	7/13/17	140.74	4433.03
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	1/11/18	140.48	4433.29
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	1/12/18	140.56	4433.21
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	7/12/18	141.74	4432.03
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	1/10/19	142.01	4431.76
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	7/18/19	142.49	4431.28
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	1/9/20	142.76	4431.01
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	8/6/20	142.99	4430.78
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	1/7/21	143.90	4429.87
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	7/15/21	144.45	4429.32
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	1/27/22	145.15	4428.62
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	8/1/22	145.37	4428.40
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	2/16/23	145.48	4428.29
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	8/8/23	145.93	4427.84
BMO-2014-3BL	917527	600824.0155	3467793.1	4573.765	1/30/24	147.09	4426.68
BMO-2014-3BL	917527	600824.015	3467793.100	4573.765	8/12/24	147.39	4426.38
BMO-2014-3BU	917494	600813.429	3467793.102	4572.213	2/24/15	137.91	4434.30
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	4/15/15	139.45	4435.44
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	5/18/15	139.74	4435.15
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	7/29/15	140.03	4434.86
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	10/7/15	139.64	4435.25
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	2/4/16	139.20	4435.69
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	4/6/16	139.48	4435.41
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	7/14/16	140.55	4434.34
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	11/2/16	140.83	4434.06
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	1/25/17	140.66	4434.23
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	7/13/17	140.80	4434.09
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	1/11/18	141.50	4433.39
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	1/12/18	141.52	4433.37
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	7/12/18	141.65	4433.24
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	1/10/19	143.12	4431.77
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	7/18/19	143.56	4431.33
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	1/9/20	143.84	4431.05
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	8/6/20	144.08	4430.81
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	1/7/21	144.99	4429.90
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	7/15/21	145.56	4429.33

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	1/27/22	146.24	4428.65
BMO-2014-3BU	917494	600813.4285	3467793.102	4574.887	8/1/22	146.58	4428.31
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	2/16/23	146.59	4428.30
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	8/8/23	147.01	4427.88
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	1/30/24	148.21	4426.68
BMO-2014-3BU	917494	600813.429	3467793.102	4574.887	8/12/24	148.51	4426.38
BMO-2014-4B	917620	600508.904	3468579.814	4566.453	3/4/15	132.43	4434.02
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	4/14/15	133.60	4434.07
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	5/18/15	133.85	4433.82
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	7/23/15	134.27	4433.40
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	10/6/15	133.74	4433.93
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	2/3/16	133.04	4434.63
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	4/5/16	133.25	4434.42
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	7/13/16	134.64	4433.03
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	11/1/16	134.87	4432.80
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	1/23/17	134.41	4433.26
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	7/12/17	135.68	4431.99
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	1/9/18	135.05	4432.62
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	7/11/18	136.51	4431.16
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	1/9/19	136.53	4431.14
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	7/17/19	137.00	4430.67
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	1/7/20	137.04	4430.63
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	8/5/20	137.37	4430.30
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	1/6/21	138.09	4429.58
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	7/14/21	138.73	4428.94
BMO-2014-4B	917620	600508.9041	3468579.814	4567.672	1/25/22	139.30	4428.37
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	7/20/22	139.63	4428.04
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	2/2/23	139.42	4428.25
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	8/3/23	140.34	4427.33
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	2/1/24	141.12	4426.55
BMO-2014-4B	917620	600508.904	3468579.814	4567.672	8/7/24	141.71	4425.96
BMO-2014-4BL	917619	600498.016	3468566.049	4566.453	3/1/15	131.89	4434.56
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	4/14/15	132.95	4434.10
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	5/18/15	133.23	4433.82
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	7/23/15	133.67	4433.38
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	10/6/15	133.16	4433.89
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	2/3/16	132.43	4434.62
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	4/5/16	132.67	4434.38
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	8/25/16	133.82	4433.23
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	11/1/16	134.30	4432.75
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	1/23/17	133.85	4433.20
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	7/12/17	135.10	4431.95
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	1/9/18	134.47	4432.58
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	7/11/18	136.07	4430.98
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	1/9/19	135.95	4431.10
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	7/17/19	136.44	4430.61
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	1/7/20	136.46	4430.59
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	8/5/20	136.86	4430.19
BMO-2014-4BL	917619	600498.0157	3468566.049	4567.045	1/6/21	137.55	4429.50
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	7/14/21	138.15	4428.90
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	1/25/22	138.74	4428.31
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	7/20/22	138.98	4428.07
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	2/2/23	139.33	4427.72
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	8/3/23	139.76	4427.29

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	2/1/24	140.55	4426.50
BMO-2014-4BL	917619	600498.016	3468566.049	4567.045	8/7/24	141.11	4425.94
BMO-2015-1B	917622	600270.854	3468568.778	4561.382	3/15/15	128.05	4433.33
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	4/14/15	129.10	4432.96
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	5/18/15	129.24	4432.82
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	7/23/15	129.62	4432.44
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	10/6/15	129.02	4433.04
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	2/3/16	128.41	4433.65
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	4/5/16	128.45	4433.61
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	8/25/16	130.05	4432.01
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	11/1/16	130.38	4431.68
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	1/23/17	130.28	4431.78
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	7/12/17	131.14	4430.92
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	1/9/18	130.50	4431.56
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	7/11/18	131.87	4430.19
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	1/9/19	132.24	4429.82
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	7/17/19	132.79	4429.27
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	1/7/20	132.91	4429.15
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	8/5/20	133.35	4428.71
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	1/6/21	133.95	4428.11
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	7/14/21	134.63	4427.43
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	1/25/22	135.13	4426.93
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	7/20/22	135.50	4426.56
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	2/2/23	135.37	4426.69
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	8/3/23	136.23	4425.83
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	2/1/24	137.09	4424.97
BMO-2015-1B	917622	600270.854	3468568.778	4562.063	8/7/24	137.80	4424.26
BMO-2015-1BL	917621	600280.379	3468583.066	4561.382	3/12/15	129.10	4432.28
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	4/14/15	130.45	4432.95
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	5/18/15	130.59	4432.81
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/23/15	130.98	4432.42
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	10/6/15	130.30	4433.10
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	2/3/16	129.75	4433.65
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	4/5/16	129.81	4433.59
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/13/16	131.31	4432.09
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	11/1/16	131.66	4431.74
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	1/23/17	131.58	4431.82
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/12/17	132.46	4430.94
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	1/9/18	131.79	4431.61
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/11/18	133.21	4430.19
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	1/9/19	133.52	4429.88
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/17/19	134.09	4429.31
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	1/7/20	134.18	4429.22
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	8/5/20	134.62	4428.78
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	1/6/21	135.25	4428.15
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	3/9/21	135.21	4428.19
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/14/21	135.90	4427.50
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	1/25/22	136.41	4426.99
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	7/20/22	136.82	4426.58
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	2/2/23	136.92	4426.48
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	8/3/23	137.51	4425.89
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	2/1/24	138.31	4425.09
BMO-2015-1BL	917621	600280.379	3468583.066	4563.402	8/7/24	139.06	4424.34
BMO-2015-2B	917827	600261.329	3468985.498	4579.624	3/19/15	147.17	4432.45

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	4/14/15	149.05	4433.03
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	5/18/15	149.18	4432.90
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/23/15	149.47	4432.61
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	10/6/15	148.94	4433.14
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	2/3/16	148.45	4433.63
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	4/5/16	148.37	4433.71
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/13/16	149.88	4432.20
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	11/1/16	150.30	4431.78
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/23/17	150.12	4431.96
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/12/17	150.99	4431.09
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/9/18	150.43	4431.65
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/11/18	151.72	4430.36
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/9/19	152.10	4429.98
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/17/19	152.71	4429.37
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/7/20	152.82	4429.26
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	8/5/20	153.31	4428.77
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/6/21	153.83	4428.25
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/14/21	154.56	4427.52
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/25/22	154.95	4427.13
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	7/20/22	155.38	4426.70
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	2/2/23	155.48	4426.60
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	8/3/23	156.15	4425.93
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	1/23/24	156.84	4425.24
BMO-2015-2B	917827	600261.329	3468985.498	4582.082	8/5/24	157.76	4424.32
BMO-2015-2BL	917828	600268.473	3468999.785	4579.624	3/26/15	146.43	4433.19
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	4/14/15	147.60	4433.04
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	5/18/15	147.82	4432.82
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	7/23/15	148.12	4432.52
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	10/6/15	147.56	4433.08
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	2/3/16	147.06	4433.58
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	4/5/16	146.99	4433.65
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	7/13/16	148.52	4432.12
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	11/1/16	149.00	4431.64
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	1/23/17	148.80	4431.84
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	7/12/17	149.64	4431.00
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	1/9/18	149.09	4431.55
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	7/11/18	150.39	4430.25
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	1/9/19	150.76	4429.88
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	7/17/19	151.37	4429.27
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	1/7/20	151.49	4429.15
BMO-2015-2BL	917828	600268.4728	3468999.785	4580.644	8/5/20	151.95	4428.69
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	1/6/21	152.54	4428.10
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	7/14/21	153.24	4427.40
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	1/25/22	153.64	4427.00
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	7/20/22	154.10	4426.54
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	2/2/23	154.16	4426.48
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	8/3/23	154.92	4425.72
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	1/23/24	155.53	4425.11
BMO-2015-2BL	917828	600268.473	3468999.785	4580.644	8/5/24	156.43	4424.21
BOOTH	914931	601132.585	3468049.038	4568.21	1/15/13	131.47	4436.74
BOOTH	914931	601132.585	3468049.038	4568.21	4/19/13	132.04	4436.17
BOOTH	914931	601132.585	3468049.038	4568.21	10/18/13	132.56	4435.65
BOOTH	914931	601132.585	3468049.038	4568.21	8/2/23	139.19	4429.02
BOOTH	914931	601132.585	3468049.038	4568.21	1/26/24	140.32	4427.89

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
BOOTH	914931	601132.585	3468049.038	4568.21	9/11/24	140.99	4427.22
BURKE	212268	602230.086	3473029.835	4856.30	4/22/08	606.55	4249.75
BURKE	212268	602230.086	3473029.835	4856.30	8/5/08	605.86	4250.44
BURKE	212268	602230.086	3473029.835	4856.30	10/28/08	604.88	4251.42
BURKE	212268	602230.086	3473029.835	4856.30	2/19/09	603.91	4252.39
BURKE	212268	602230.086	3473029.835	4856.30	4/28/09	603.70	4252.60
BURKE	212268	602230.086	3473029.835	4856.30	8/19/09	602.66	4253.64
BURKE	212268	602230.086	3473029.835	4856.30	10/10/13	601.06	4255.24
BURKE	212268	602230.086	3473029.835	4856.30	1/8/14	592.90	4263.40
BURKE	212268	602230.086	3473029.835	4856.30	4/16/14	592.51	4263.79
BURKE	212268	602230.086	3473029.835	4856.30	7/21/14	592.35	4263.95
BURKE	212268	602230.086	3473029.835	4856.30	10/21/14	594.68	4261.62
BURKE	212268	602230.086	3473029.835	4856.30	8/3/15	587.06	4269.24
COB MW-1	903992	603153.259	3469889.889	4683.26	2/22/08	232.47	4450.79
COB MW-1	903992	603153.259	3469889.889	4683.26	5/20/08	233.12	4450.14
COB MW-1	903992	603153.259	3469889.889	4683.26	7/30/08	233.37	4449.89
COB MW-1	903992	603153.259	3469889.889	4683.26	10/23/08	233.62	4449.64
COB MW-1	903992	603153.259	3469889.889	4683.26	2/12/09	234.05	4449.21
COB MW-1	903992	603153.259	3469889.889	4683.26	4/21/09	234.99	4448.27
COB MW-1	903992	603153.259	3469889.889	4683.26	7/22/09	234.34	4448.92
COB MW-1	903992	603153.259	3469889.889	4683.26	10/22/09	234.69	4448.57
COB MW-1	903992	603153.259	3469889.889	4683.26	2/4/10	235.15	4448.11
COB MW-1	903992	603153.259	3469889.889	4683.26	4/20/10	235.47	4447.79
COB MW-1	903992	603153.259	3469889.889	4683.26	7/13/10	235.68	4447.58
COB MW-1	903992	603153.259	3469889.889	4683.26	7/14/11	236.98	4446.28
COB MW-1	903992	603153.259	3469889.889	4683.26	7/12/12	238.24	4445.02
COB MW-1	903992	603153.259	3469889.889	4683.26	2/5/13	239.11	4444.15
COB MW-1	903992	603153.259	3469889.889	4683.26	7/11/13	239.67	4443.59
COB MW-1	903992	603153.259	3469889.889	4683.26	7/9/14	240.03	4443.23
COB MW-1	903992	603153.259	3469889.889	4683.26	2/4/15	239.46	4443.80
COB MW-1	903992	603153.259	3469889.889	4683.26	7/27/15	239.83	4443.43
COB MW-1B	225906	603155.541	3469877.441	4683.26 2	7/20/16	240.06	4443.20
COB MW-1B	225906	603155.541	3469877.441	4683.26 2	1/19/17	239.90	4443.36
COB MW-1B	225906	603155.541	3469877.441	4683.26 2	7/19/17	240.27	4442.99
COB MW-1B	225906	603155.541	3469877.441	4683.26	8/14/24	246.66	4436.60
COB MW-2	903984	600973.253	3468114.871	4566.21	2/22/08	122.85	4443.36
COB MW-2	903984	600973.253	3468114.871	4566.21	5/20/08	123.00	4443.21
COB MW-2	903984	600973.253	3468114.871	4566.21	7/30/08	123.53	4442.68
COB MW-2	903984	600973.253	3468114.871	4566.21	10/23/08	124.02	4442.19
COB MW-2	903984	600973.253	3468114.871	4566.21	2/12/09	123.39	4442.82
COB MW-2	903984	600973.253	3468114.871	4566.21	4/23/09	124.16	4442.05
COB MW-2	903984	600973.253	3468114.871	4566.21	7/22/09	124.91	4441.30
COB MW-2	903984	600973.253	3468114.871	4566.21	10/22/09	125.33	4440.88
COB MW-2	903984	600973.253	3468114.871	4566.21	3/3/10	124.93	4441.28
COB MW-2	903984	600973.253	3468114.871	4566.21	4/26/10	125.47	4440.74
COB MW-2	903984	600973.253	3468114.871	4566.21	7/13/10	126.54	4439.67
COB MW-2	903984	600973.253	3468114.871	4566.21	1/20/11	126.46	4439.75
COB MW-2	903984	600973.253	3468114.871	4566.21	7/14/11	128.17	4438.04
COB MW-2	903984	600973.253	3468114.871	4566.21	1/31/12	128.04	4438.17
COB MW-2	903984	600973.253	3468114.871	4566.21	7/12/12	129.58	4436.63
COB MW-2	903984	600973.253	3468114.871	4566.21	1/9/13	129.28	4436.93
COB MW-2	903984	600973.253	3468114.871	4566.21	7/25/13	130.21	4436.00
COB MW-2	903984	600973.253	3468114.871	4566.21	1/6/14	130.11	4436.10
COB MW-2	903984	600973.253	3468114.871	4566.21	7/9/14	131.32	4434.89

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
COB MW-2	903984	600973.253	3468114.871	4566.21	2/4/15	126.60	4439.61
COB MW-2	903984	600973.253	3468114.871	4566.21	5/28/15	130.39	4435.82
COB MW-2	903984	600973.253	3468114.871	4566.21	7/27/15	130.32	4435.89
COB MW-2	903984	600973.253	3468114.871	4566.21	10/7/15	129.96	4436.25
COB MW-2	903984	600973.253	3468114.871	4566.21	1/11/16	129.56	4436.65
COB MW-2	903984	600973.253	3468114.871	4566.21	7/20/16	130.90	4435.31
COB MW-2	903984	600973.253	3468114.871	4566.21	1/19/17	130.99	4435.22
COB MW-2	903984	600973.253	3468114.871	4566.21	7/19/17	131.90	4434.31
COB MW-2	903984	600973.253	3468114.871	4566.21	1/11/18	131.72	4434.49
COB MW-2	903984	600973.253	3468114.871	4566.21	7/17/18	132.56	4433.65
COB MW-2	903984	600973.253	3468114.871	4566.21	1/15/19	133.13	4433.08
COB MW-2	903984	600973.253	3468114.871	4566.21	7/24/19	133.54	4432.67
COB MW-2	903984	600973.253	3468114.871	4566.21	1/14/20	133.82	4432.39
COB MW-2	903984	600973.253	3468114.871	4566.21	8/11/20	134.02	4432.19
COB MW-2	903984	600973.253	3468114.871	4566.21	1/12/21	134.86	4431.35
COB MW-2	903984	600973.253	3468114.871	4566.21	7/21/21	135.43	4430.78
COB MW-2	903984	600973.253	3468114.871	4566.21	2/8/22	135.5	4430.71
COB MW-2	903984	600973.253	3468114.871	4566.21	8/3/22	136	4430
COB MW-2	903984	600973.253	3468114.871	4566.21	2/1/23	136.51	4429.70
COB MW-2	903984	600973.253	3468114.871	4566.21	8/2/23	136.80	4429.41
COB MW-2	903984	600973.253	3468114.871	4566.21	2/14/24	138.09	4428.12
COB MW-2	903984	600973.253	3468114.871	4566.21	8/14/24	138.37	4427.84
COB MW-3	906823	599169.255	3468726.057	4538.63	2/28/08	120.84	4417.79
COB MW-3	906823	599169.255	3468726.057	4538.63	5/20/08	125.00	4413.63
COB MW-3	906823	599169.255	3468726.057	4538.63	7/30/08	118.50	4420.13
COB MW-3	906823	599169.255	3468726.057	4538.63	10/23/08	117.93	4420.70
COB MW-3	906823	599169.255	3468726.057	4538.63	2/12/09	110.91	4427.72
COB MW-3	906823	599169.255	3468726.057	4538.63	4/23/09	125.13	4413.50
COB MW-3	906823	599169.255	3468726.057	4538.63	7/22/09	124.09	4414.54
COB MW-3	906823	599169.255	3468726.057	4538.63	10/22/09	118.03	4420.60
COB MW-3	906823	599169.255	3468726.057	4538.63	3/3/10	120.14	4418.49
COB MW-3	906823	599169.255	3468726.057	4538.63	4/26/10	123.12	4415.51
COB MW-3	906823	599169.255	3468726.057	4538.63	7/13/10	128.60	4410.03
COB MW-3	906823	599169.255	3468726.057	4538.63	7/14/11	132.41	4406.22
COB MW-3	906823	599169.255	3468726.057	4538.63	7/12/12	133.89	4404.74
COB MW-3	906823	599169.255	3468726.057	4538.63	2/5/13	123.68	4414.95
COB MW-3	906823	599169.255	3468726.057	4538.63	7/25/13	129.05	4409.58
COB MW-3	906823	599169.255	3468726.057	4538.63	1/6/14	127.52	4411.11
COB MW-3	906823	599169.255	3468726.057	4538.63	7/9/14	124.19	4414.44
COB MW-3	906823	599169.255	3468726.057	4538.63	2/4/15	115.11	4423.52
COB MW-3	906823	599169.255	3468726.057	4538.63	7/27/15	118.39	4420.24
COB MW-3	906823	599169.255	3468726.057	4538.63	10/7/15	114.37	4424.26
COB MW-3	906823	599169.255	3468726.057	4538.63	1/11/16	112.93	4425.70
COB MW-3	906823	599169.255	3468726.057	4538.63	7/20/16	120.25	4418.38
COB MW-3	906823	599169.255	3468726.057	4538.63	1/27/17	126.14	4412.49
COB MW-3	906823	599169.255	3468726.057	4538.63	7/19/17	120.70	4417.93
COB MW-3	906823	599169.255	3468726.057	4538.63	1/11/18	116.02	4422.61
COB MW-3	906823	599169.255	3468726.057	4538.63	7/17/18	125.77	4412.86
COB MW-3	906823	599169.255	3468726.057	4538.63	1/15/19	125.53	4413.10
COB MW-3	906823	599169.255	3468726.057	4538.63	7/24/19	127.73	4410.90
COB MW-3	906823	599169.255	3468726.057	4538.63	1/14/20	123.27	4415.36
COB MW-3	906823	599169.255	3468726.057	4538.63	8/11/20	137.35	4401.28
COB MW-3	906823	599169.255	3468726.057	4538.63	1/12/21	134.66	4403.97
COB MW-3	906823	599169.255	3468726.057	4538.63	7/21/21	136.83	4401.80

APPENDIX C
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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
COB MW-3	906823	599169.255	3468726.057	4538.63	2/8/22	134.67	4403.96
COB MW-3	906823	599169.255	3468726.057	4538.63	8/3/22	132	4407
COB MW-3	906823	599169.255	3468726.057	4538.63	2/1/23	134.42	4404.21
COB MW-3	906823	599169.255	3468726.057	4538.63	8/3/23	140.46	4398.17
COB MW-3	906823	599169.255	3468726.057	4538.61	2/14/24	130.94	4407.67
COB MW-3	906823	599169.255	3468726.057	4538.61	8/14/24	143.04	4395.57
COB WL	593116	606357.499	3472502.035	4832.06	2/22/08	56.50	4775.56
COB WL	593116	606357.499	3472502.035	4832.06	5/20/08	57.50	4774.56
COB WL	593116	606357.499	3472502.035	4832.06	7/30/08	58.64	4773.42
COB WL	593116	606357.499	3472502.035	4832.06	10/23/08	58.76	4773.30
COB WL	593116	606357.499	3472502.035	4832.06	2/12/09	58.89	4773.17
COB WL	593116	606357.499	3472502.035	4832.06	4/23/09	59.73	4772.33
COB WL	593116	606357.499	3472502.035	4832.06	7/22/09	61.27	4770.79
COB WL	593116	606357.499	3472502.035	4832.06	10/22/09	62.82	4769.24
COB WL	593116	606357.499	3472502.035	4832.06	3/3/10	65.24	4766.82
COB WL	593116	606357.499	3472502.035	4832.06	4/26/10	66.13	4765.93
COB WL	593116	606357.499	3472502.035	4832.06	7/13/10	67.52	4764.54
COB WL	593116	606357.499	3472502.035	4832.06	7/14/11	73.86	4758.20
COB WL	593116	606357.499	3472502.035	4832.06	7/12/12	78.85	4753.21
COB WL	593116	606357.499	3472502.035	4832.06	2/5/13	82.41	4749.65
COB WL	593116	606357.499	3472502.035	4832.06	7/25/13	81.36	4750.70
COB WL	593116	606357.499	3472502.035	4832.06	7/9/14	78.12	4753.94
COB WL	593116	606357.499	3472502.035	4832.06	2/4/15	58.14	4773.92
COB WL	593116	606357.499	3472502.035	4832.06	7/27/15	80.09	4751.97
COB WL	593116	606357.499	3472502.035	4832.06	1/11/16	81.72	4750.34
COB WL	593116	606357.499	3472502.035	4832.06	7/20/16	84.80	4747.26
COB WL	593116	606357.499	3472502.035	4832.06	1/25/17	87.06	4745.00
COB WL	593116	606357.499	3472502.035	4832.06	7/14/17	89.96	4742.10
COB WL	593116	606357.499	3472502.035	4832.06	1/11/18	89.87	4742.19
COB WL	593116	606357.499	3472502.035	4832.06	7/9/18	91.48	4740.58
COB WL	593116	606357.499	3472502.035	4832.06	1/7/19	91.73	4740.33
COB WL	593116	606357.499	3472502.035	4832.06	7/15/19	92.89	4739.17
COB WL	593116	606357.499	3472502.035	4832.06	1/7/20	93.72	4738.34
COB WL	593116	606357.499	3472502.035	4832.06	8/4/20	94.79	4737.27
COB WL	593116	606357.499	3472502.035	4832.06	1/6/21	95.93	4736.13
COB WL	593116	606357.499	3472502.035	4832.06	7/12/21	97.54	4734.52
COB WL	593116	606357.499	3472502.035	4832.06	8/3/22	98.70	4733.36
COB WL	593116	606357.499	3472502.035	4832.06	2/1/23	101.62	4730.44
COB WL	593116	606357.499	3472502.035	4832.06	8/10/23	103.21	4728.85
COB WL	593116	606357.499	3472502.035	4832.06	2/14/24	105.63	4726.43
COB WL	593116	606357.499	3472502.035	4832.06	8/14/24	107	4725.06
COLLINS	565260	602551.283	3471341.357	4733.72	2/12/08	289.47	4444.25
COLLINS	565260	602551.283	3471341.357	4733.72	5/29/08	288.53	4445.19
COLLINS	565260	602551.283	3471341.357	4733.72	7/31/08	290.08	4443.64
COLLINS	565260	602551.283	3471341.357	4733.72	10/20/08	290.15	4443.57
COLLINS	565260	602551.283	3471341.357	4733.72	4/21/09	290.66	4443.06
COLLINS	565260	602551.283	3471341.357	4733.72	7/20/09	290.78	4442.94
COLLINS	565260	602551.283	3471341.357	4733.72	10/20/09	290.52	4443.20
COLLINS	565260	602551.283	3471341.357	4733.72	2/2/10	291.64	4442.08
COLLINS	565260	602551.283	3471341.357	4733.72	4/23/10	291.96	4441.76
COLLINS	565260	602551.283	3471341.357	4733.72	7/20/10	292.21	4441.51
COOPER 988	232988	602200.984	3471719.987	4748.95	7/16/21	326.57	4422.38
COOPER 988	232988	602200.984	3471719.987	4748.95	1/28/22	326.10	4422.85
COOPER 988	232988	602200.984	3471719.987	4748.95	7/8/22	327.23	4421.72

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
COOPER 988	232988	602200.984	3471719.987	4748.95	1/24/23	328.44	4420.51
COOPER 988	232988	602200.984	3471719.987	4748.95	7/19/23	327.83	4421.12
COOPER 988	232988	602200.984	3471719.987	4748.95	1/22/24	328.13	4420.82
COOPER 988	232988	602200.984	3471719.987	4748.95	8/5/24	328.94	4420.01
COOPER C	637069	601349.985	3468913.044	4599.14	3/4/08	155.08	4444.06
COOPER C	637069	601349.985	3468913.044	4599.14	5/5/08	155.34	4443.80
COOPER C	637069	601349.985	3468913.044	4599.14	7/15/08	156.01	4443.13
COOPER C	637069	601349.985	3468913.044	4599.14	10/16/08	155.85	4443.29
COOPER C	637069	601349.985	3468913.044	4599.14	1/27/09	155.62	4443.52
COOPER C	637069	601349.985	3468913.044	4599.14	4/14/09	155.86	4443.28
COOPER C	637069	601349.985	3468913.044	4599.14	7/14/09	156.50	4442.64
COOPER C	637069	601349.985	3468913.044	4599.14	10/12/09	156.89	4442.25
COOPER C	637069	601349.985	3468913.044	4599.14	1/27/10	157.03	4442.11
COOPER C	637069	601349.985	3468913.044	4599.14	4/22/10	157.31	4441.83
COOPER C	637069	601349.985	3468913.044	4599.14	7/21/10	158.00	4441.14
COOPER C	637069	601349.985	3468913.044	4599.14	10/20/10	158.41	4440.73
COOPER C	637069	601349.985	3468913.044	4599.14	1/17/11	158.37	4440.77
COOPER C	637069	601349.985	3468913.044	4599.14	4/11/11	158.74	4440.40
COOPER C	637069	601349.985	3468913.044	4599.14	8/26/11	159.51	4439.63
COOPER C	637069	601349.985	3468913.044	4599.14	10/13/11	159.81	4439.33
COOPER C	637069	601349.985	3468913.044	4599.14	2/1/12	159.80	4439.34
COOPER C	637069	601349.985	3468913.044	4599.14	4/25/12	160.26	4438.88
COOPER C	637069	601349.985	3468913.044	4599.14	7/12/12	160.88	4438.26
COOPER C	637069	601349.985	3468913.044	4599.14	10/10/12	161.10	4438.04
COOPER C	637069	601349.985	3468913.044	4599.14	2/27/13	161.40	4437.74
COOPER C	637069	601349.985	3468913.044	4599.14	5/8/13	161.70	4437.44
COOPER C	637069	601349.985	3468913.044	4599.14	8/13/13	162.07	4437.07
COOPER C	637069	601349.985	3468913.044	4599.14	11/1/13	162.23	4436.91
COOPER C	637069	601349.985	3468913.044	4599.14	2/10/14	161.90	4437.24
COOPER C	637069	601349.985	3468913.044	4599.14	5/7/14	162.63	4436.51
COOPER C	637069	601349.985	3468913.044	4599.14	7/21/14	162.67	4436.47
COOPER C	637069	601349.985	3468913.044	4599.14	11/13/14	162.48	4436.66
COOPER C	637069	601349.985	3468913.044	4599.14	5/19/15	162.14	4437.00
COOPER C	637069	601349.985	3468913.044	4599.14	9/10/15	162.14	4437.00
COOPER C	637069	601349.985	3468913.044	4599.14	10/21/15	162.17	4436.97
COOPER C	637069	601349.985	3468913.044	4599.14	3/16/16	161.76	4437.38
COOPER C	637069	601349.985	3468913.044	4599.14	8/18/16	162.78	4436.36
COOPER C	637069	601349.985	3468913.044	4599.14	7/13/17	162.68	4436.46
COOPER C	637069	601349.985	3468913.044	4599.14	2/5/18	163.66	4435.48
COOPER C	637069	601349.985	3468913.044	4599.14	7/25/18	164.42	4434.72
COOPER C	637069	601349.985	3468913.044	4599.14	1/28/19	164.72	4434.42
COOPER C	637069	601349.985	3468913.044	4599.14	8/19/19	165.43	4433.71
COOPER C	637069	601349.985	3468913.044	4599.14	8/17/20	165.98	4433.16
COOPER C	637069	601349.985	3468913.044	4599.14	3/15/21	166.65	4432.49
COOPER C	637069	601349.985	3468913.044	4599.14	7/27/21	167.22	4431.92
COOPER C	637069	601349.985	3468913.044	4599.14	3/9/22	167.82	4431.32
COOPER C	637069	601349.985	3468913.044	4599.14	7/25/22	168.15	4430.99
COOPER C	637069	601349.985	3468913.044	4599.14	9/12/23	168.79	4430.35
COOPER C	637069	601349.985	3468913.044	4599.14	3/19/24	169.61	4429.53
COOPER C	637069	601349.985	3468913.044	4599.14	8/28/24	DRY	DRY
DODSON	644927	605594.560	3469063.772	4686.34	5/12/08	81.38	4604.96
DODSON	644927	605594.560	3469063.772	4686.34	7/24/08	82.20	4604.14
DODSON	644927	605594.560	3469063.772	4686.34	10/13/08	81.82	4604.52
DODSON	644927	605594.560	3469063.772	4686.34	1/22/09	82.33	4604.01

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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
DODSON	644927	605594.560	3469063.772	4686.34	4/9/09	82.84	4603.50
DODSON	644927	605594.560	3469063.772	4686.34	7/8/09	86.88	4599.46
DODSON	644927	605594.560	3469063.772	4686.34	10/6/09	87.27	4599.07
DODSON	644927	605594.560	3469063.772	4686.34	1/21/10	88.54	4597.80
DODSON	644927	605594.560	3469063.772	4686.34	4/19/10	89.53	4596.81
DODSON	644927	605594.560	3469063.772	4686.34	7/20/10	90.79	4595.55
DODSON	644927	605594.560	3469063.772	4686.34	10/18/10	90.33	4596.01
DODSON	644927	605594.560	3469063.772	4686.34	1/19/11	90.34	4596.00
DODSON	644927	605594.560	3469063.772	4686.34	4/5/11	91.05	4595.29
DODSON	644927	605594.560	3469063.772	4686.34	7/12/11	92.07	4594.27
DODSON	644927	605594.560	3469063.772	4686.34	10/10/11	93.11	4593.23
DODSON	644927	605594.560	3469063.772	4686.34	1/31/12	93.68	4592.66
DODSON	644927	605594.560	3469063.772	4686.34	4/12/12	94.19	4592.15
DODSON	644927	605594.560	3469063.772	4686.34	10/4/12	97.80	4588.54
DODSON	644927	605594.560	3469063.772	4686.34	1/18/13	99.73	4586.61
DODSON	644927	605594.560	3469063.772	4686.34	4/9/13	98.09	4588.25
DODSON	644927	605594.560	3469063.772	4686.34	7/9/13	98.38	4587.96
DODSON	644927	605594.560	3469063.772	4686.34	10/9/13	92.69	4593.65
DODSON	644927	605594.560	3469063.772	4686.34	1/9/14	93.21	4593.13
DODSON	644927	605594.560	3469063.772	4686.34	4/15/14	94.64	4591.70
DODSON	644927	605594.560	3469063.772	4686.34	7/14/14	95.43	4590.91
DODSON	644927	605594.560	3469063.772	4686.34	10/16/14	97.22	4589.12
DODSON	644927	605594.560	3469063.772	4686.34	1/26/15	95.81	4590.53
DODSON	644927	605594.560	3469063.772	4686.34	7/23/15	97.32	4589.02
DODSON	644927	605594.560	3469063.772	4686.34	1/12/16	99.34	4587.00
DODSON	644927	605594.560	3469063.772	4686.34	7/18/16	103.91	4582.43
DODSON	644927	605594.560	3469063.772	4686.34	7/17/17	103.07	4583.27
DODSON	644927	605594.560	3469063.772	4686.34	1/17/18	101.44	4584.90
DODSON	644927	605594.560	3469063.772	4686.34	7/30/18	117.18	4569.16
DODSON	644927	605594.560	3469063.772	4686.34	1/15/19	105.08	4581.26
DODSON	644927	605594.560	3469063.772	4686.34	7/9/19	104.16	4582.18
DODSON	644927	605594.560	3469063.772	4686.34	1/15/20	101.82	4584.52
DODSON	644927	605595	3469064	4686.34	8/13/20	99.10	4587.24
DODSON	644927	605595	3469064	4686.34	1/11/21	99.72	4586.62
DODSON	644927	605595	3469064	4686.34	7/21/21	101.04	4585.30
DODSON	644927	605595	3469064	4686.34	1/28/22	99.68	4586.66
DODSON	644927	605595	3469064	4686.34	7/6/22	99.22	4587.12
DODSON	644927	605595	3469064	4686.34	1/23/23	102.36	4583.98
DODSON	644927	605595	3469064	4686.34	7/25/23	100.47	4585.87
DODSON	644927	605595	3469064	4686.34	1/17/24	99.69	4586.65
DODSON	644927	605595	3469064	4686.34	7/30/24	98.54	4587.80
DOUGLASS 791	592791	607633	3470223	4703.27	2/13/08	22.11	4681.16
DOUGLASS 791	592791	607633	3470223	4703.27	5/13/08	24.60	4678.67
DOUGLASS 791	592791	607633	3470223	4703.27	7/22/08	27.00	4676.27
DOUGLASS 791	592791	607633	3470223	4703.27	10/16/08	23.60	4679.67
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	1/19/09	26.51	4676.76
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	4/8/09	28.53	4674.74
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/7/09	31.04	4672.23
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	10/5/09	31.49	4671.78
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	1/21/10	34.55	4668.72
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	4/19/10	36.40	4666.87
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/12/10	36.74	4666.53
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	1/18/11	25.96	4677.31
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	1/30/12	27.72	4675.55

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	4/11/12	29.99	4673.28
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/5/12	32.67	4670.60
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	1/9/13	27.24	4676.03
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/8/13	32.70	4670.57
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	1/6/14	23.56	4679.71
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/7/14	28.22	4675.05
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/20/15	30.86	4672.41
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/11/16	32.09	4671.18
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/13/17	31.58	4671.69
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	8/1/18	36.48	4666.79
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/11/19	27.35	4675.92
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	8/14/20	27.69	4675.58
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/19/21	32.38	4670.89
DOUGLASS 791	592791	607632.990	3470222.695	4703.27	7/8/22	37.92	4665.35
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	2/13/08	87.76	4593.97
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	5/13/08	87.21	4594.52
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	7/22/08	86.90	4594.83
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	10/16/08	86.45	4595.28
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	1/20/09	86.26	4595.47
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	4/8/09	86.04	4595.69
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	7/7/09	86.16	4595.57
DOUGLASS 792	592792	607607.536	3469829.130	4681.73	10/5/09	86.19	4595.54
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	1/21/10	86.45	4595.28
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	4/19/10	87.19	4594.54
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/12/10	87.55	4594.18
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	1/18/11	87.8	4593.93
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/12/11	88.38	4593.35
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	1/30/12	88.92	4592.81
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	4/11/12	89.18	4592.55
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/5/12	95.64	4586.09
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	1/9/13	82.60	4599.13
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/8/13	83.66	4598.07
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	1/6/14	83.55	4598.18
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/7/14	82.43	4599.30
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/20/15	82.57	4599.16
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/11/16	83.48	4598.25
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/13/17	84.43	4597.30
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	8/1/18	85.76	4595.97
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/11/19	85.39	4596.34
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	8/14/20	85.28	4596.45
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/19/21	86.15	4595.58
DOUGLASS 792	592792	607607.536	3469829.13	4681.73	7/8/22	87.30	4594.43
EAST	599796	607076.362	3468712.227	4626.01	2/8/08	50.20	4575.81
EAST	599796	607076.362	3468712.227	4626.01	5/14/08	52.45	4573.56
EAST	599796	607076.362	3468712.227	4626.01	7/23/08	52.16	4573.85
EAST	599796	607076.362	3468712.227	4626.01	10/14/08	52.19	4573.82
EAST	599796	607076.362	3468712.227	4626.01	1/20/09	50.52	4575.49
EAST	599796	607076.362	3468712.227	4626.01	4/8/09	51.91	4574.10
EAST	599796	607076.362	3468712.227	4626.01	7/13/09	56.93	4569.08
EAST	599796	607076.362	3468712.227	4626.01	10/8/09	60.95	4565.06
EAST	599796	607076.362	3468712.227	4626.01	1/25/10	59.35	4566.66
EAST	599796	607076.362	3468712.227	4626.01	4/21/10	58.88	4567.13
EAST	599796	607076.362	3468712.227	4626.01	7/14/10	61.86	4564.15
EAST	599796	607076.362	3468712.227	4626.01	10/20/10	61.20	4564.81

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
EAST	599796	607076.362	3468712.227	4626.01	1/18/11	59.79	4566.22
EAST	599796	607076.362	3468712.227	4626.01	4/5/11	59.73	4566.28
EAST	599796	607076.362	3468712.227	4626.01	7/12/11	63.79	4562.22
EAST	599796	607076.362	3468712.227	4626.01	10/12/11	63.64	4562.37
EAST	599796	607076.362	3468712.227	4626.01	1/31/12	63.82	4562.19
EAST	599796	607076.362	3468712.227	4626.01	4/11/12	65.72	4560.29
EAST	599796	607076.362	3468712.227	4626.01	7/9/12	70.50	4555.51
EAST	599796	607076.362	3468712.227	4626.01	10/4/12	73.34	4552.67
EAST	599796	607076.362	3468712.227	4626.01	1/17/13	75.04	4550.97
EAST	599796	607076.362	3468712.227	4626.01	4/9/13	78.05	4547.96
EAST	599796	607076.362	3468712.227	4626.01	7/9/13	78.37	4547.64
EAST	599796	607076.362	3468712.227	4626.01	10/15/13	72.38	4553.63
EAST	599796	607076.362	3468712.227	4626.01	1/14/14	71.88	4554.13
EAST	599796	607076.362	3468712.227	4626.01	4/8/14	71.03	4554.98
EAST	599796	607076.362	3468712.227	4626.01	7/8/14	72.03	4553.98
EAST	599796	607076.362	3468712.227	4626.01	10/22/14	67.75	4558.26
EAST	599796	607076.362	3468712.227	4626.01	7/24/15	74.64	4551.37
EAST	599796	607076.362	3468712.227	4626.01	7/12/16	65.02	4560.99
EAST	599796	607076.362	3468712.227	4626.01	7/27/17	67.11	4558.90
EAST	599796	607076.362	3468712.227	4626.01	7/30/18	77.95	4548.06
EAST	599796	607076.362	3468712.227	4626.01	7/17/19	79.28	4546.73
EAST	599796	607076.362	3468712.227	4626.01	8/13/20	77.26	4548.75
EAST	599796	607076.362	3468712.227	4626.01	7/23/21	78.88	4547.13
EAST	599796	607076.362	3468712.227	4626.01	7/7/22	78.45	4547.56
EAST	599796	607076.362	3468712.227	4626.01	7/27/23	78.60	4547.41
EAST	599796	607076.362	3468712.227	4626.01	7/31/24	79.53	4546.48
ECHAVE	219449	599700.997	3470167.092	4648	2/1/12	216.71	4431.29
ECHAVE	219449	599700.997	3470167.092	4648	1/18/13	218.41	4429.59
ECHAVE	219449	599700.997	3470167.092	4648	7/28/17	220.49	4427.51
ECHAVE	219449	599700.997	3470167.092	4648	2/23/18	219.94	4428.06
ECHAVE	219449	599700.997	3470167.092	4648	7/17/18	220.37	4427.63
ECHAVE	219449	599700.997	3470167.092	4648	1/15/19	220.49	4427.51
ECHAVE	219449	599700.997	3470167.092	4648	7/23/19	220.93	4427.07
ECHAVE	219449	599700.997	3470167.092	4648	1/21/20	221.16	4426.84
ECHAVE	219449	599700.997	3470167.092	4648	8/10/20	221.50	4426.50
ECHAVE	219449	599700.997	3470167.092	4648	1/5/21	222.04	4425.96
ECHAVE	219449	599700.997	3470167.092	4648	7/21/21	222.59	4425.41
ECHAVE	219449	599700.997	3470167.092	4648	1/26/22	222.93	4425.07
ECHAVE	219449	599700.997	3470167.092	4648	7/21/23	224.03	4423.97
ECHAVE	219449	599700.997	3470167.092	4648	1/18/24	224.84	4423.16
ECHAVE	219449	599700.997	3470167.092	4648	7/25/24	225.55	4422.45
EPPELE 641	805641	607165.347	3469229.956	4642.86	3/11/08	29.52	4613.34
EPPELE 641	805641	607165.347	3469229.956	4642.86	5/12/08	30.64	4612.22
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/21/08	25.59	4617.27
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/14/08	24.53	4618.33
EPPELE 641	805641	607165.347	3469229.956	4642.86	1/21/09	27.35	4615.51
EPPELE 641	805641	607165.347	3469229.956	4642.86	4/8/09	29.08	4613.78
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/9/09	31.51	4611.35
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/7/09	29.92	4612.94
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/20/10	50.38	4592.48
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/20/10	48.88	4593.98
EPPELE 641	805641	607165.347	3469229.956	4642.86	1/17/11	51.13	4591.73
EPPELE 641	805641	607165.347	3469229.956	4642.86	4/5/11	53.81	4589.05
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/11/11	56.82	4586.04

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/12/11	37.62	4605.24
EPPELE 641	805641	607165.347	3469229.956	4642.86	1/31/12	46.80	4596.06
EPPELE 641	805641	607165.347	3469229.956	4642.86	4/11/12	52.07	4590.79
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/6/12	62.39	4580.47
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/3/12	71.66	4571.20
EPPELE 641	805641	607165.347	3469229.956	4642.86	1/17/13	59.73	4583.13
EPPELE 641	805641	607165.347	3469229.956	4642.86	4/8/13	83.98	4558.88
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/9/13	92.84	4550.02
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/15/13	28.50	4614.36
EPPELE 641	805641	607165.347	3469229.956	4642.86	1/14/14	49.32	4593.54
EPPELE 641	805641	607165.347	3469229.956	4642.86	4/8/14	52.03	4590.83
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/8/14	66.62	4576.24
EPPELE 641	805641	607165.347	3469229.956	4642.86	10/21/14	24.56	4618.30
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/24/15	41.32	4601.54
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/12/16	38.41	4604.45
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/27/17	48.58	4594.28
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/31/18	62.29	4580.57
EPPELE 641	805641	607165.347	3469229.956	4642.86	7/19/19	29.30	4613.56
EPPELE 641	805641	607165.347	3469229.956	4642.86	2/8/22	28.02	4614.84
EPPELE 641	805641	607165.347	3469229.956	4642.86	1/11/23	25.48	4617.38
FRANCO 101	500101	602849.902	3468835.683	4636.75	4/10/13	196.05	4440.70
FRANCO 101	500101	602849.902	3468835.683	4636.75	7/10/13	196.19	4440.56
FRANCO 101	500101	602849.902	3468835.683	4636.75	10/16/13	196.65	4440.10
FRANCO 101	500101	602849.902	3468835.683	4636.75	1/14/14	196.77	4439.98
FRANCO 101	500101	602849.902	3468835.683	4636.75	4/8/14	196.86	4439.89
FRANCO 101	500101	602849.902	3468835.683	4636.75	7/14/14	197.08	4439.67
FRANCO 101	500101	602849.902	3468835.683	4636.75	10/8/14	197.91	4438.84
FRANCO 383	221383	602817.854	3468831.563	4636.88	9/13/12	195.19	4441.69
FRANCO 383	221383	602817.854	3468831.563	4636.88	10/5/12	195.00	4441.88
FRANCO 383	221383	602817.854	3468831.563	4636.88	12/3/12	196.70	4440.18
FRANCO 383	221383	602817.854	3468831.563	4636.88	1/15/13	196.30	4440.58
FRANCO 383	221383	602817.854	3468831.563	4636.88	2/6/13	195.62	4441.26
FRANCO 383	221383	602817.854	3468831.563	4636.88	3/7/13	196.20	4440.68
FRANCO 383	221383	602817.854	3468831.563	4636.88	4/10/13	196.25	4440.63
FRANCO 383	221383	602817.854	3468831.563	4636.88	7/10/13	196.13	4440.75
FRANCO 383	221383	602817.854	3468831.563	4636.88	10/16/13	196.30	4440.58
FRANCO 383	221383	602817.854	3468831.563	4636.88	1/14/14	196.46	4440.42
FRANCO 383	221383	602817.854	3468831.563	4636.88	4/8/14	196.89	4439.99
FRANCO 383	221383	602817.854	3468831.563	4636.88	7/14/14	196.87	4440.01
FRANCO 383	221383	602817.854	3468831.563	4636.88	10/8/14	196.86	4440.02
FRANCO 383	221383	602817.854	3468831.563	4636.88	7/27/15	198.11	4438.77
FRANCO 383	221383	602817.854	3468831.563	4636.88	7/18/16	197.32	4439.56
FRANCO 383	221383	602817.854	3468831.563	4636.88	7/20/17	198.37	4438.51
FRANCO 383	221383	602817.854	3468831.563	4636.88	7/27/18	198.73	4438.15
FRANCO 383	221383	602817.854	3468831.563	4635.79	7/24/19	199.56	4436.23
FRANCO 383	221383	602817.854	3468831.563	4635.79	8/12/20	200.58	4435.21
FRANCO 383	221383	602817.854	3468831.563	4635.79	7/22/21	200.62	4435.17
FRANCO 383	221383	602817.854	3468831.563	4635.79	7/7/22	203.32	4432.47
FRANCO 383	221383	602817.854	3468831.563	4635.79	7/27/23	202.65	4433.14
FULTZ	212447	607153.306	3469063.892	4642.92	10/22/08	40.59	4602.33
FULTZ	212447	607153.306	3469063.892	4642.92	1/21/09	40.66	4602.26
FULTZ	212447	607153.306	3469063.892	4642.92	4/9/09	42.88	4600.04
FULTZ	212447	607153.306	3469063.892	4642.92	7/13/09	54.94	4587.98
FULTZ	212447	607153.306	3469063.892	4642.92	10/8/09	56.16	4586.76

APPENDIX C
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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
FULTZ	212447	607153.306	3469063.892	4642.92	1/25/10	53.45	4589.47
FULTZ	212447	607153.306	3469063.892	4642.92	4/20/10	63.82	4579.10
FULTZ	212447	607153.306	3469063.892	4642.92	7/14/10	119.86	4523.06
FULTZ	212447	607153.306	3469063.892	4642.92	9/11/24	250.11	4392.81
GARNER 557	558557	602693.516	3468974.152	4638.45	2/21/08	191.05	4447.40
GARNER 557	558557	602693.516	3468974.152	4638.45	5/5/08	191.28	4447.17
GARNER 557	558557	602693.516	3468974.152	4638.45	7/15/08	191.44	4447.01
GARNER 557	558557	602693.516	3468974.152	4638.45	10/16/08	191.83	4446.62
GARNER 557	558557	602693.516	3468974.152	4638.45	1/28/09	191.92	4446.53
GARNER 557	558557	602693.516	3468974.152	4638.45	4/15/09	192.09	4446.36
GARNER 557	558557	602693.516	3468974.152	4638.45	7/16/09	192.52	4445.93
GARNER 557	558557	602693.516	3468974.152	4638.45	10/14/09	192.82	4445.63
GARNER 557	558557	602693.516	3468974.152	4638.45	2/2/10	193.33	4445.12
GARNER 557	558557	602693.516	3468974.152	4638.45	4/22/10	193.49	4444.96
GARNER 557	558557	602693.516	3468974.152	4638.45	7/20/10	193.93	4444.52
GARNER 557	558557	602693.516	3468974.152	4638.45	10/19/10	194.29	4444.16
GARNER 557	558557	602693.516	3468974.152	4638.45	1/19/11	194.61	4443.84
GARNER 557	558557	602693.516	3468974.152	4638.45	4/6/11	194.86	4443.59
GARNER 557	558557	602693.516	3468974.152	4638.45	7/15/11	195.25	4443.20
GARNER 557	558557	602693.516	3468974.152	4638.45	10/11/11	195.72	4442.73
GARNER 557	558557	602693.516	3468974.152	4638.45	2/2/12	196.09	4442.36
GARNER 557	558557	602693.516	3468974.152	4638.45	4/13/12	196.30	4442.15
GARNER 557	558557	602693.516	3468974.152	4638.45	7/11/12	196.72	4441.73
GARNER 557	558557	602693.516	3468974.152	4638.45	10/5/12	197.08	4441.37
GARNER 557	558557	602693.516	3468974.152	4638.45	1/11/13	197.51	4440.94
GARNER 557	558557	602693.516	3468974.152	4638.45	4/15/13	197.76	4440.69
GARNER 557	558557	602693.5162	3468974.152	4638.45	7/10/13	197.87	4440.58
GARNER 557	558557	602693.5162	3468974.152	4638.45	10/11/13	198.27	4440.18
GARNER 557	558557	602693.5162	3468974.152	4638.45	1/17/14	198.46	4439.99
GARNER 557	558557	602693.5162	3468974.152	4638.45	4/15/14	198.58	4439.87
GARNER 557	558557	602693.5162	3468974.152	4638.45	8/6/20	202.36	4436.09
GARNER 557	558557	602693.5162	3468974.152	4638.45	1/11/21	202.85	4435.60
GARNER 557	558557	602693.5162	3468974.152	4638.45	7/21/21	203.52	4434.93
GARNER 557	558557	602693.5162	3468974.152	4638.45	2/1/22	204.16	4434.29
GARNER 557	558557	602693.5162	3468974.152	4638.45	7/12/22	204.56	4433.89
GARNER 557	558557	602693.5162	3468974.152	4638.45	1/13/23	204.94	4433.51
GARNER 557	558557	602693.5162	3468974.152	4638.45	7/24/23	215.23	4423.22
GARNER 557	558557	602693.5162	3468974.152	4638.45	1/17/24	205.77	4432.68
GARNER 557	558557	602693.5162	3468974.152	4638.45	7/31/24	206.56	4431.89
GARNER 635	587635	602665.346	3468967.931	4640.74	2/4/08	193.20	4447.54
GARNER 635	587635	602665.346	3468967.931	4640.74	5/5/08	195.90	4444.84
GARNER 635	587635	602665.346	3468967.931	4640.74	7/15/08	193.58	4447.16
GARNER 635	587635	602665.346	3468967.931	4640.74	10/15/08	194.35	4446.39
GARNER 635	587635	602665.346	3468967.931	4640.74	1/28/09	194.80	4445.94
GARNER 635	587635	602665.346	3468967.931	4640.74	4/15/09	195.54	4445.20
GARNER 635	587635	602665.346	3468967.931	4640.74	7/16/09	194.88	4445.86
GARNER 635	587635	602665.346	3468967.931	4640.74	10/14/09	196.36	4444.38
GARNER 635	587635	602665.346	3468967.931	4640.74	2/2/10	195.32	4445.42
GARNER 635	587635	602665.346	3468967.931	4640.74	4/22/10	196.01	4444.73
GARNER 635	587635	602665.346	3468967.931	4640.74	8/25/10	195.57	4445.17
GARNER 635	587635	602665.346	3468967.931	4640.74	10/19/10	225.83	4414.91
GARNER 635	587635	602665.346	3468967.931	4640.74	1/19/11	196.89	4443.85
GARNER 635	587635	602665.346	3468967.931	4640.74	4/6/11	197.40	4443.34
GARNER 635	587635	602665.346	3468967.931	4640.74	7/15/11	198.07	4442.67

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
GARNER 635	587635	602665.346	3468967.931	4640.74	10/11/11	197.75	4442.99
GARNER 635	587635	602665.346	3468967.931	4640.74	2/2/12	199.50	4441.24
GARNER 635	587635	602665.346	3468967.931	4640.74	4/13/12	200.40	4440.34
GARNER 635	587635	602665.346	3468967.931	4640.74	7/11/12	199.15	4441.59
GARNER 635	587635	602665.346	3468967.931	4640.74	10/5/12	202.71	4438.03
GARNER 635	587635	602665.346	3468967.931	4640.74	1/11/13	199.38	4441.36
GARNER 635	587635	602665.346	3468967.931	4640.74	4/15/13	200.53	4440.21
GARNER 635	587635	602665.346	3468967.931	4640.74	7/10/13	200.13	4440.61
GARNER 635	587635	602665.346	3468967.931	4640.74	10/11/13	200.27	4440.47
GARNER 635	587635	602665.346	3468967.931	4640.74	1/17/14	201.83	4438.91
GARNER 635	587635	602665.346	3468967.931	4640.74	4/15/14	200.67	4440.07
GARNER 635	587635	602665.346	3468967.931	4640.74	7/26/17	202.02	4438.72
GARNER 635	587635	602665.346	3468967.931	4640.74	1/16/18	202.07	4438.67
GARNER 635	587635	602665.346	3468967.931	4640.74	7/24/18	205.65	4435.09
GARNER 635	587635	602665.346	3468967.931	4640.74	1/15/19	203.03	4437.71
GARNER 635	587635	602665.346	3468967.931	4640.74	7/15/19	208.66	4432.08
GARNER 635	587635	602665.346	3468967.931	4640.74	8/6/20	204.32	4436.42
GARNER 635	587635	602665.346	3468967.931	4640.74	7/21/21	206.36	4434.38
GARNER 635	587635	602665.346	3468967.931	4640.74	2/1/22	206.06	4434.68
GARNER 635	587635	602665.346	3468967.931	4640.74	7/12/22	206.52	4434.22
GARNER 635	587635	602665.346	3468967.931	4640.74	7/24/23	207.19	4433.55
GARNER 635	587635	602665.346	3468967.931	4640.74	7/31/24	207.43	4433.31
GGOOSE 547	628547	606256.651	3469820.279	4717.11	5/21/08	220.91	4496.20
GGOOSE 547	628547	606256.651	3469820.279	4717.11	8/15/08	238.48	4478.63
GGOOSE 547	628547	606256.651	3469820.279	4717.11	10/29/08	235.90	4481.21
GGOOSE 547	628547	606256.651	3469820.279	4717.11	2/24/09	236.13	4480.98
GGOOSE 547	628547	606256.651	3469820.279	4717.11	5/14/09	236.17	4480.94
GGOOSE 547	628547	606256.651	3469820.279	4717.11	8/19/09	236.01	4481.10
GGOOSE 547	628547	606256.651	3469820.279	4717.11	8/19/09	236.01	4481.10
GGOOSE 547	628547	606256.651	3469820.279	4717.11	11/11/09	237.66	4479.45
GGOOSE 547	628547	606256.651	3469820.279	4717.11	3/9/10	238.84	4478.27
GGOOSE 547	628547	606256.651	3469820.279	4717.11	4/27/10	239.17	4477.94
GL-03	539782	604386.940	3473747.943	4924.31	5/22/08	660.15	4264.16
GL-03	539782	604386.940	3473747.943	4924.31	8/4/08	659.79	4264.52
GL-03	539782	604386.940	3473747.943	4924.31	12/2/08	658.25	4266.06
GL-03	539782	604386.940	3473747.943	4924.31	2/26/09	658.62	4265.69
GL-03	539782	604386.940	3473747.943	4924.31	5/5/09	657.23	4267.08
GL-03	539782	604386.940	3473747.943	4924.31	8/12/09	656.56	4267.75
GL-03	539782	604386.940	3473747.943	4924.31	8/12/09	656.56	4267.75
GL-03	539782	604386.940	3473747.943	4924.31	11/10/09	655.31	4269.00
GL-03	539782	604386.940	3473747.943	4924.31	3/2/10	655.52	4268.79
GL-03	539782	604386.94	3473747.943	4924.31	4/9/10	655.35	4268.96
GL-03	539782	604386.94	3473747.943	4924.31	7/7/10	655.05	4269.26
GL-03	539782	604386.94	3473747.943	4924.31	2/1/12	651.72	4272.59
GOAR RANCH	610695	602454.751	3468892.471	4631.13	2/21/08	183.90	4447.23
GOAR RANCH	610695	602454.751	3468892.471	4631.13	5/5/08	188.11	4443.02
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/16/08	184.41	4446.72
GOAR RANCH	610695	602454.751	3468892.471	4631.13	10/22/08	184.68	4446.45
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/27/09	184.87	4446.26
GOAR RANCH	610695	602454.751	3468892.471	4631.13	4/15/09	184.96	4446.17
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/7/09	185.36	4445.77
GOAR RANCH	610695	602454.751	3468892.471	4631.13	10/12/09	185.72	4445.41
GOAR RANCH	610695	602454.751	3468892.471	4631.13	2/2/10	186.25	4444.88
GOAR RANCH	610695	602454.751	3468892.471	4631.13	4/22/10	186.44	4444.69

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/13/10	186.76	4444.37
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/19/11	187.52	4443.61
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/12/11	188.24	4442.89
GOAR RANCH	610695	602454.751	3468892.471	4631.13	2/6/12	189.02	4442.11
GOAR RANCH	610695	602454.751	3468892.471	4631.13	9/13/12	190.08	4441.05
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/11/13	190.48	4440.65
GOAR RANCH	610695	602454.751	3468892.471	4631.13	9/18/13	191.21	4439.92
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/17/14	191.48	4439.65
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/21/14	191.73	4439.40
GOAR RANCH	610695	602454.751	3468892.471	4631.13	2/2/15	191.44	4439.69
GOAR RANCH	610695	602454.751	3468892.471	4631.13	8/4/15	191.74	4439.39
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/11/16	191.68	4439.45
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/25/16	191.83	4439.30
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/17/17	192.43	4438.70
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/12/17	192.84	4438.29
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/15/18	193.12	4438.01
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/17/18	193.56	4437.57
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/7/19	194.16	4436.97
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/8/19	194.68	4436.45
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/21/20	195.19	4435.94
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/20/20	195.34	4435.79
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/5/21	195.91	4435.22
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/12/21	196.50	4434.63
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/27/22	197.19	4433.94
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/11/22	197.51	4433.62
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/24/23	198.05	4433.08
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/24/23	198.21	4432.92
GOAR RANCH	610695	602454.751	3468892.471	4631.13	1/17/24	198.94	4432.19
GOAR RANCH	610695	602454.751	3468892.471	4631.13	7/30/24	199.54	4431.59
HOBAN	805290	601705.844	3468880.359	4607.60	2/27/08	163.05	4444.55
HOBAN	805290	601705.844	3468880.359	4607.60	5/7/08	163.28	4444.32
HOBAN	805290	601705.844	3468880.359	4607.60	7/14/08	163.87	4443.73
HOBAN	805290	601705.844	3468880.359	4607.60	10/16/08	163.95	4443.65
HOBAN	805290	601705.844	3468880.359	4607.60	1/28/09	163.82	4443.78
HOBAN	805290	601705.844	3468880.359	4607.60	4/15/09	164.16	4443.44
HOBAN	805290	601705.844	3468880.359	4607.60	7/14/09	164.59	4443.01
HOBAN	805290	601705.844	3468880.359	4607.60	10/15/09	165.00	4442.60
HOBAN	805290	601705.844	3468880.359	4607.60	3/2/10	165.32	4442.28
HOBAN	805290	601705.844	3468880.359	4607.60	5/18/10	165.71	4441.89
HOBAN	805290	601705.844	3468880.359	4607.60	7/20/10	166.17	4441.43
HOBAN	805290	601705.844	3468880.359	4607.60	10/19/10	166.45	4441.15
HOBAN	805290	601705.844	3468880.359	4607.60	8/31/11	167.76	4439.84
HOBAN	805290	601705.844	3468880.359	4607.60	12/14/11	168.13	4439.47
HOBAN	805290	601705.844	3468880.359	4607.60	2/1/12	168.09	4439.51
HOBAN	805290	601705.844	3468880.359	4607.60	4/19/12	168.32	4439.28
HOBAN	805290	601705.844	3468880.359	4607.60	7/11/12	169.10	4438.50
HOBAN	805290	601705.844	3468880.359	4607.60	10/17/12	169.40	4438.20
HOBAN	805290	601705.844	3468880.359	4607.60	2/15/13	169.70	4437.90
HOBAN	805290	601705.844	3468880.359	4607.60	5/8/13	169.95	4437.65
HOBAN	805290	601705.844	3468880.359	4607.60	8/13/13	170.31	4437.29
HOBAN	805290	601705.844	3468880.359	4607.60	11/1/13	170.54	4437.06
HOBAN	805290	601705.844	3468880.359	4607.60	2/10/14	170.22	4437.38
HOBAN	805290	601705.844	3468880.359	4607.60	5/7/14	170.61	4436.99
HOBAN	805290	601705.844	3468880.359	4607.60	7/21/14	170.90	4436.70

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
HOBAN	805290	601705.844	3468880.359	4607.60	11/13/14	170.81	4436.79
HOBAN	805290	601705.844	3468880.359	4607.60	2/4/15	170.26	4437.34
HOBAN	805290	601705.844	3468880.359	4607.60	5/19/15	170.37	4437.23
HOBAN	805290	601705.844	3468880.359	4607.60	9/10/15	170.57	4437.03
HOBAN	805290	601705.844	3468880.359	4607.60	10/21/15	170.58	4437.02
HOBAN	805290	601705.844	3468880.359	4607.60	3/16/16	170.33	4437.27
HOBAN	805290	601705.844	3468880.359	4607.60	8/18/16	171.05	4436.55
HOBAN	805290	601705.844	3468880.359	4607.60	3/7/17	171.41	4436.19
HOBAN	805290	601705.844	3468880.359	4607.60	7/13/17	172.00	4435.60
HOBAN	805290	601705.844	3468880.359	4607.60	2/5/18	172.12	4435.48
HOBAN	805290	601705.844	3468880.359	4607.60	7/25/18	172.74	4434.86
HOBAN	805290	601705.844	3468880.359	4607.60	1/28/19	173.29	4434.31
HOBAN	805290	601705.844	3468880.359	4607.60	8/7/19	173.88	4433.72
HOBAN	805290	601705.844	3468880.359	4607.60	2/20/20	174.29	4433.31
HOBAN	805290	601705.844	3468880.359	4607.60	9/8/20	174.47	4433.13
HOBAN	805290	601705.844	3468880.359	4607.60	3/15/21	175.10	4432.50
HOBAN	805290	601705.844	3468880.359	4607.60	3/9/22	176.25	4431.35
HOBAN	805290	601705.844	3468880.359	4607.60	7/25/22	176.56	4431.04
HOBAN	805290	601705.844	3468880.359	4607.60	3/14/23	176.93	4430.67
HOBAN	805290	601705.844	3468880.359	4607.60	9/12/23	177.31	4430.29
HOBAN	805290	601705.844	3468880.359	4607.60	3/19/24	178.00	4429.60
HOBAN	805290	601705.844	3468880.359	4607.60	8/28/24	178.63	4428.97
HOWARD 312	221312	601308.536	3468772.743	4594.9356	8/14/12	188.36	4406.58
HOWARD 312	221312	601308.536	3468772.743	4594.9356	10/16/12	193.33	4401.61
HOWARD 312	221312	601308.536	3468772.743	4594.9356	2/6/13	193.74	4401.20
HOWARD 312	221312	601308.536	3468772.743	4594.9356	4/9/13	195.30	4399.64
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/12/13	198.27	4396.67
HOWARD 312	221312	601308.536	3468772.743	4594.9356	10/16/13	201.08	4393.86
HOWARD 312	221312	601308.536	3468772.743	4594.9356	1/8/14	202.61	4392.33
HOWARD 312	221312	601308.536	3468772.743	4594.9356	4/10/14	204.64	4390.30
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/14/14	206.97	4387.97
HOWARD 312	221312	601308.536	3468772.743	4594.9356	10/10/14	206.36	4388.58
HOWARD 312	221312	601308.536	3468772.743	4594.9356	5/19/15	208.08	4386.86
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/31/15	210.54	4384.40
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/27/16	207.89	4387.05
HOWARD 312	221312	601308.5358	3468772.743	4594.9356	7/21/17	207.54	4387.40
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/23/18	204.95	4389.99
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/9/19	206.58	4388.36
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/21/20	205.37	4389.57
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/28/21	214.78	4380.16
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/13/22	206.32	4388.62
HOWARD 312	221312	601308.536	3468772.743	4594.9356	7/26/23	222.72	4372.22
HOWARD 312	221312	601308.536	3468772.743	4594.9356	8/7/24	236.32	4358.62
HOWARD NR	NR	601281.932	3468768.655	4593.91	3/4/08	150.10	4443.81
HOWARD NR	NR	601281.932	3468768.655	4593.91	5/8/08	150.70	4443.21
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/14/08	150.91	4443.00
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/15/08	150.67	4443.24
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/28/09	150.67	4443.24
HOWARD NR	NR	601281.932	3468768.655	4593.91	4/15/09	151.15	4442.76
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/15/09	151.76	4442.15
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/12/09	152.08	4441.83
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/27/10	152.20	4441.71
HOWARD NR	NR	601281.932	3468768.655	4593.91	4/21/10	152.30	4441.61
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/19/10	153.16	4440.75

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/18/10	153.53	4440.38
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/17/11	153.51	4440.40
HOWARD NR	NR	601281.932	3468768.655	4593.91	4/11/11	154.24	4439.67
HOWARD NR	NR	601281.932	3468768.655	4593.91	8/26/11	154.79	4439.12
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/11/11	155.02	4438.89
HOWARD NR	NR	601281.932	3468768.655	4593.91	2/1/12	155.08	4438.83
HOWARD NR	NR	601281.932	3468768.655	4593.91	4/13/12	155.40	4438.51
HOWARD NR	NR	601281.932	3468768.655	4593.91	9/13/12	156.29	4437.62
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/16/12	156.43	4437.48
HOWARD NR	NR	601281.932	3468768.655	4593.91	2/6/13	156.27	4437.64
HOWARD NR	NR	601281.932	3468768.655	4593.91	4/9/13	156.71	4437.20
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/12/13	157.18	4436.73
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/16/13	157.52	4436.39
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/8/14	157.16	4436.75
HOWARD NR	NR	601281.932	3468768.655	4593.91	4/10/14	157.55	4436.36
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/14/14	157.92	4435.99
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/10/14	157.68	4436.23
HOWARD NR	NR	601281.932	3468768.655	4593.91	2/2/15	157.11	4436.80
HOWARD NR	NR	601281.932	3468768.655	4593.91	5/19/15	157.31	4436.60
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/31/15	157.58	4436.33
HOWARD NR	NR	601281.932	3468768.655	4593.91	10/8/15	157.36	4436.55
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/12/16	157.01	4436.90
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/27/16	157.93	4435.98
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/16/17	158.23	4435.68
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/21/17	158.84	4435.07
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/15/18	158.86	4435.05
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/23/18	159.64	4434.27
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/14/19	160.18	4433.73
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/9/19	160.66	4433.25
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/17/20	160.96	4432.95
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/21/20	161.07	4432.84
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/4/21	161.71	4432.20
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/28/21	162.43	4431.48
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/27/22	163.01	4430.90
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/13/22	163.37	4430.54
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/11/23	163.60	4430.31
HOWARD NR	NR	601281.932	3468768.655	4593.91	7/25/23	163.82	4430.09
HOWARD NR	NR	601281.932	3468768.655	4593.91	1/18/24	164.69	4429.22
KEEFER	209744	599879.177	3468119.056	4572.03	2/6/08	134.67	4437.36
KEEFER	209744	599879.177	3468119.056	4572.03	5/6/08	135.28	4436.75
KEEFER	209744	599879.177	3468119.056	4572.03	7/16/08	136.24	4435.79
KEEFER	209744	599879.177	3468119.056	4572.03	10/28/08	135.87	4436.16
KEEFER	209744	599879.177	3468119.056	4572.03	1/28/09	134.88	4437.15
KEEFER	209744	599879.177	3468119.056	4572.03	4/16/09	135.00	4437.03
KEEFER	209744	599879.177	3468119.056	4572.03	7/14/09	136.07	4435.96
KEEFER	209744	599879.177	3468119.056	4572.03	10/13/09	136.67	4435.36
KEEFER	209744	599879.177	3468119.056	4572.03	1/26/10	136.26	4435.77
KEEFER	209744	599879.177	3468119.056	4572.03	4/20/10	136.26	4435.77
KEEFER	209744	599879.177	3468119.056	4572.03	7/15/10	137.29	4434.74
KEEFER	209744	599879.177	3468119.056	4572.03	10/19/10	137.68	4434.35
KEEFER	209744	599879.177	3468119.056	4572.03	1/18/11	137.42	4434.61
KEEFER	209744	599879.177	3468119.056	4572.03	4/6/11	137.91	4434.12
KEEFER	209744	599879.177	3468119.056	4572.03	7/18/11	140.39	4431.64
KEEFER	209744	599879.177	3468119.056	4572.03	10/11/11	141.68	4430.35

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
KEEFER	209744	599879.177	3468119.056	4572.03	2/6/12	139.27	4432.76
KEEFER	209744	599879.177	3468119.056	4572.03	4/23/12	139.76	4432.27
KEEFER	209744	599879.177	3468119.056	4572.03	7/17/12	140.69	4431.34
KEEFER	209744	599879.177	3468119.056	4572.03	10/9/12	141.00	4431.03
KEEFER	209744	599879.177	3468119.056	4572.03	1/10/13	140.80	4431.23
KEEFER	209744	599879.177	3468119.056	4572.03	4/8/13	141.32	4430.71
KEEFER	209744	599879.177	3468119.056	4572.03	7/11/13	141.81	4430.22
KEEFER	209744	599879.177	3468119.056	4572.03	10/7/13	141.63	4430.40
KEEFER	209744	599879.177	3468119.056	4572.03	1/7/14	141.10	4430.93
KEEFER	209744	599879.177	3468119.056	4572.03	4/9/14	140.91	4431.12
KEEFER	209744	599879.177	3468119.056	4572.03	7/10/14	141.97	4430.06
KEEFER	209744	599879.177	3468119.056	4572.03	10/8/14	141.45	4430.58
KEEFER	209744	599879.177	3468119.056	4572.03	5/19/15	140.47	4431.56
KEEFER	209744	599879.177	3468119.056	4572.03	7/21/15	140.80	4431.23
KEEFER	209744	599879.177	3468119.056	4572.03	10/8/15	140.21	4431.82
KEEFER	209744	599879.177	3468119.056	4572.03	1/14/16	139.54	4432.49
KEEFER	209744	599879.177	3468119.056	4572.03	7/25/16	143.37	4428.66
KEEFER	209744	599879.177	3468119.056	4572.03	7/25/17	142.64	4429.39
KEEFER	209744	599879.177	3468119.056	4572.03	2/23/18	142.25	4429.78
KEEFER	209744	599879.177	3468119.056	4572.03	7/9/18	143.46	4428.57
KEEFER	209744	599879.177	3468119.056	4572.03	1/11/19	144.10	4427.93
KEEFER	209744	599879.177	3468119.056	4572.03	7/10/19	144.82	4427.21
KEEFER	209744	599879.177	3468119.056	4572.03	1/17/20	144.79	4427.24
KEEFER	209744	599879.177	3468119.056	4572.03	7/22/20	145.42	4426.61
KEEFER	209744	599879.177	3468119.056	4572.03	1/12/21	146.11	4425.92
KEEFER	209744	599879.177	3468119.056	4572.03	7/13/21	146.78	4425.25
KEEFER	209744	599879.177	3468119.056	4572.03	1/25/22	147.14	4424.89
KEEFER	209744	599879.177	3468119.056	4572.03	7/7/22	147.47	4424.56
KEEFER	209744	599879.177	3468119.056	4572.03	1/24/23	147.49	4424.54
KEEFER	209744	599879.177	3468119.056	4572.03	7/19/23	148.30	4423.73
KEEFER	209744	599879.177	3468119.056	4572.03	1/17/24	149.45	4422.58
KEEFER	209744	599879.177	3468119.056	4572.03	7/25/24	150.06	4421.97
LADD 251	520251	594788.933	3470348.534	4443.83	3/22/13	221.32	4222.51
LADD 251	520251	594788.933	3470348.534	4443.83	6/14/13	221.78	4222.05
LADD 251	520251	594788.933	3470348.534	4443.83	9/24/13	219.6	4224.23
LADD 251	520251	594788.933	3470348.534	4443.83	12/3/13	217.44	4226.39
LADD 251	520251	594788.933	3470348.534	4443.83	2/25/14	217.59	4226.24
LADD 251	520251	594788.933	3470348.534	4443.83	6/4/14	218.27	4225.56
LADD 251	520251	594788.933	3470348.534	4443.83	9/10/14	219.04	4224.79
LADD 251	520251	594788.933	3470348.534	4443.83	11/20/14	213.58	4230.25
LADD 251	520251	594788.933	3470348.534	4443.83	3/24/15	214.18	4229.65
LADD 251	520251	594788.933	3470348.534	4443.83	9/17/15	216.39	4227.44
LADD 251	520251	594788.933	3470348.534	4443.83	3/24/16	217.85	4225.98
LADD 251	520251	594788.933	3470348.534	4443.83	9/28/16	219.8	4224.03
LADD 251	520251	594788.9331	3470348.534	4443.83	3/20/17	220.91	4222.92
LADD 251	520251	594788.933	3470348.534	4443.83	8/10/17	222.12	4221.71
LADD 251	520251	594788.933	3470348.534	4443.83	3/8/18	222.94	4220.89
LADD 251	520251	594788.933	3470348.534	4443.83	8/22/18	223.64	4220.19
LADD 251	520251	594788.933	3470348.534	4443.83	2/14/19	224.29	4219.54
LADD 251	520251	594788.933	3470348.534	4443.83	9/9/19	225.05	4218.78
LADD 251	520251	594788.933	3470348.534	4443.83	2/27/20	225.45	4218.38
LADD 251	520251	594788.933	3470348.534	4443.83	8/25/20	225.33	4218.50
LADD 251	520251	594788.933	3470348.534	4443.83	3/23/21	225.80	4218.03
LADD 251	520251	594788.933	3470348.534	4443.83	9/20/21	226.48	4217.35

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
LADD 251	520251	594788.933	3470348.534	4443.83	3/14/22	225.62	4218.21
LADD 251	520251	594788.933	3470348.534	4443.83	9/22/22	225.65	4218.18
LADD 251	520251	594788.933	3470348.534	4443.83	3/14/23	222.70	4221.13
LADD 251	520251	594788.933	3470348.534	4443.83	9/19/23	222.32	4221.51
LADD 251	520251	594788.933	3470348.534	4443.83	3/20/24	222.92	4220.91
LADD 251	520251	594788.933	3470348.534	4443.83	9/26/24	223.95	4219.88
LADD 538	505538	596791.294	3469634.882	4527.05	2/9/10	253.10	4273.95
LADD 538	505538	596791.294	3469634.882	4527.05	4/28/10	253.83	4273.22
LADD 538	505538	596791.294	3469634.882	4527.05	7/28/10	254.05	4273.00
LADD 538	505538	596791.294	3469634.882	4527.05	12/8/10	252.87	4274.18
LADD 538	505538	596791.294	3469634.882	4527.05	3/17/11	252.76	4274.29
LADD 538	505538	596791.294	3469634.882	4527.05	6/24/11	288.00	4239.05
LADD 538	505538	596791.294	3469634.882	4527.05	9/29/11	276.58	4250.47
LADD 538	505538	596791.294	3469634.882	4527.05	12/16/11	250.68	4276.37
LADD 538	505538	596791.294	3469634.882	4527.05	2/15/12	253.80	4273.25
LADD 538	505538	596791.294	3469634.882	4527.05	6/11/12	258.90	4268.15
LADD 538	505538	596791.294	3469634.882	4527.05	9/26/12	255.76	4271.29
LADD 538	505538	596791.294	3469634.882	4527.05	12/19/12	249.43	4277.62
LADD 538	505538	596791.294	3469634.882	4527.05	3/22/13	250.51	4276.54
LADD 538	505538	596791.294	3469634.882	4527.05	6/27/13	270.00	4257.05
LADD 538	505538	596791.294	3469634.882	4527.05	9/24/13	250.80	4276.25
LADD 538	505538	596791.294	3469634.882	4527.05	12/3/13	251.36	4275.69
LADD 538	505538	596791.294	3469634.882	4527.05	2/25/14	253.36	4273.69
LADD 538	505538	596791.294	3469634.882	4527.05	6/4/14	259.63	4267.42
LADD 538	505538	596791.294	3469634.882	4527.05	9/10/14	248.68	4278.37
LADD 538	505538	596791.294	3469634.882	4527.05	11/20/14	268.66	4258.39
LADD 538	505538	596791.2941	3469634.882	4527.05	3/24/15	248.46	4278.59
LADD 538	505538	596791.294	3469634.882	4527.05	9/17/15	243.05	4284.00
LADD 538	505538	596791.294	3469634.882	4527.05	3/24/16	266.62	4260.43
LADD 538	505538	596791.294	3469634.882	4527.05	9/28/16	246.14	4280.91
LADD 538	505538	596791.294	3469634.882	4527.05	3/20/17	232.53	4294.52
LADD 538	505538	596791.294	3469634.882	4527.05	8/10/17	227.4	4299.65
LADD 538	505538	596791.294	3469634.882	4527.05	3/8/18	222.4	4304.65
LADD 538	505538	596791.294	3469634.882	4527.05	8/22/18	219.90	4307.15
LADD 538	505538	596791.294	3469634.882	4527.05	2/14/19	217.80	4309.25
LADD 538	505538	596791.294	3469634.882	4527.05	9/9/19	216.22	4310.83
LADD 538	505538	596791.294	3469634.882	4527.05	2/27/20	215.26	4311.79
LADD 538	505538	596791.294	3469634.882	4527.05	8/25/20	213.80	4313.25
LADD 538	505538	596791.294	3469634.882	4527.05	3/23/21	212.10	4314.95
LADD 538	505538	596791.294	3469634.882	4527.05	9/20/21	211.29	4315.76
LADD 538	505538	596791.294	3469634.882	4527.05	3/14/22	210.27	4316.78
LADD 538	505538	596791.294	3469634.882	4527.05	9/22/22	209.33	4317.72
LADD 538	505538	596791.294	3469634.882	4527.05	3/14/23	207.93	4319.12
LADD 538	505538	596791.294	3469634.882	4527.05	9/19/23	206.74	4320.31
LADD 538	505538	596791.294	3469634.882	4527.05	3/20/24	206.12	4320.93
LADD 538	505538	596791.294	3469634.882	4527.05	9/26/24	205.72	4321.33
LADD 635	224635	598724.834	3467541.096	4598.99	7/18/15	169.31	4429.68
LADD 635	224635	598724.834	3467541.096	4598.99	12/17/15	169.54	4429.45
LADD 635	224635	598724.834	3467541.096	4598.99	3/31/16	169.56	4429.43
LADD 635	224635	598724.834	3467541.096	4598.99	9/28/16	170.21	4428.78
LADD 635	224635	598724.834	3467541.096	4598.99	11/22/16	170.90	4428.09
LADD 635	224635	598724.834	3467541.096	4598.99	3/20/17	184.94	4414.05
LADD 635	224635	598724.834	3467541.096	4598.99	8/24/17	172.09	4426.90
LADD 635	224635	598724.834	3467541.096	4598.99	3/8/18	172.22	4426.77

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
LADD 635	224635	598724.834	3467541.096	4598.99	8/22/18	173.07	4425.92
LADD 635	224635	598724.834	3467541.096	4598.99	2/14/19	173.20	4425.79
LADD 635	224635	598724.834	3467541.096	4598.99	9/9/19	174.03	4424.96
LADD 635	224635	598724.834	3467541.096	4598.99	2/27/20	173.85	4425.14
LADD 635	224635	598724.834	3467541.096	4598.99	8/25/20	186.34	4412.65
LADD 635	224635	598724.834	3467541.096	4598.99	3/20/23	176.72	4422.27
LADD 635	224635	598724.834	3467541.096	4598.99	9/19/23	177.96	4421.03
LADD 635	224635	598724.834	3467541.096	4598.99	3/20/24	178.63	4420.36
LADD 635	224635	598724.834	3467541.096	4598.99	9/26/24	179.62	4419.37
LADD 837	519837	594758.28	3470816.773	4470.11	2/9/10	262.80	4207.31
LADD 837	519837	594758.28	3470816.773	4470.11	4/28/10	262.65	4207.46
LADD 837	519837	594758.28	3470816.773	4470.11	7/28/10	265.75	4204.36
LADD 837	519837	594758.28	3470816.773	4470.11	12/8/10	262.38	4207.73
LADD 837	519837	594758.28	3470816.773	4470.11	3/17/11	262.65	4207.46
LADD 837	519837	594758.28	3470816.773	4470.11	6/24/11	262.51	4207.60
LADD 837	519837	594758.28	3470816.773	4470.11	9/29/11	262.28	4207.83
LADD 837	519837	594758.28	3470816.773	4470.11	12/16/11	264.32	4205.79
LADD 837	519837	594758.28	3470816.773	4470.11	2/15/12	262.24	4207.87
LADD 837	519837	594758.28	3470816.773	4470.11	6/11/12	264.04	4206.07
LADD 837	519837	594758.280	3470816.773	4470.11	9/26/12	261.75	4208.36
LADD 837	519837	594758.280	3470816.773	4470.11	12/19/12	261.94	4208.17
LADD 837	519837	594758.280	3470816.773	4470.11	3/27/13	266.68	4203.43
LADD 837	519837	594758.280	3470816.773	4470.11	6/14/13	261.51	4208.60
LADD 837	519837	594758.280	3470816.773	4470.11	9/24/13	261.38	4208.73
LADD 837	519837	594758.280	3470816.773	4470.11	12/3/13	260.85	4209.26
LADD 837	519837	594758.280	3470816.773	4470.11	2/25/14	261.04	4209.07
LADD 837	519837	594758.280	3470816.773	4470.11	6/4/14	262.53	4207.58
LADD 837	519837	594758.280	3470816.773	4470.11	9/10/14	263.68	4206.43
LADD 837	519837	594758.280	3470816.773	4470.11	11/20/14	261.18	4208.93
LADD 837	519837	594758.280	3470816.773	4470.11	3/24/15	261.44	4208.67
LADD 837	519837	594758.280	3470816.773	4470.11	9/17/15	264.32	4205.79
LADD 837	519837	594758.280	3470816.773	4470.11	3/24/16	261.79	4208.32
LADD 837	519837	594758.280	3470816.773	4470.11	9/28/16	262.8	4207.31
LADD 837	519837	594758.280	3470816.773	4470.11	3/20/17	261.3	4208.81
LADD 837	519837	594758.280	3470816.773	4470.11	8/10/17	262.0	4208.11
LADD 837	519837	594758.280	3470816.773	4470.11	3/8/18	283.2	4186.90
LADD 837	519837	594758.280	3470816.773	4470.11	8/22/18	281.46	4188.65
LADD 837	519837	594758.280	3470816.773	4470.11	2/14/19	341.04	4129.07
LADD 837	519837	594758.28	3470816.773	4470.11	9/9/19	295.40	4174.71
LADD 837	519837	594758.280	3470816.773	4470.11	2/27/20	304.30	4165.81
LADD 837	519837	594758.280	3470816.773	4470.11	8/25/20	299.29	4170.82
LADD 837	519837	594758.280	3470816.773	4470.11	3/23/21	317.23	4152.88
LADD 837	519837	594758.280	3470816.773	4470.11	9/20/21	295.30	4174.81
LADD 837	519837	594758.280	3470816.773	4470.11	3/14/22	294.03	4176.08
LADD 837	519837	594758.280	3470816.773	4470.11	9/22/22	295.82	4174.29
LADD 837	519837	594758.280	3470816.773	4470.11	3/14/23	296.53	4173.58
LADD 837	519837	594758.280	3470816.773	4470.11	9/19/23	384.83	4085.28
LADD 837	519837	594758.280	3470816.773	4470.11	3/20/24	385.11	4085.00
LADD 837	519837	594758.280	3470816.773	4470.11	9/26/24	321.35	4148.76
LADD 977	642977	597617.002	3468712.523	4513.40	3/17/11	82.32	4431.08
LADD 977	642977	597617.002	3468712.523	4513.40	6/24/11	84.00	4429.40
LADD 977	642977	597617.002	3468712.523	4513.40	9/29/11	83.62	4429.78
LADD 977	642977	597617.002	3468712.523	4513.40	12/16/11	84.8	4428.60
LADD 977	642977	597617.002	3468712.523	4513.40	2/15/12	84.67	4428.73

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
LADD 977	642977	597617.002	3468712.523	4513.40	6/11/12	85.7	4427.70
LADD 977	642977	597617.002	3468712.523	4513.40	9/26/12	84.96	4428.44
LADD 977	642977	597617.002	3468712.523	4513.40	12/19/12	86.27	4427.13
LADD 977	642977	597617.002	3468712.523	4513.40	3/22/13	85.18	4428.22
LADD 977	642977	597617.002	3468712.523	4513.40	6/14/13	86.54	4426.86
LADD 977	642977	597617.002	3468712.523	4513.40	9/24/13	82.66	4430.74
LADD 977	642977	597617.002	3468712.523	4513.40	12/3/13	84.48	4428.92
LADD 977	642977	597617.002	3468712.523	4513.40	2/25/14	85.27	4428.13
LADD 977	642977	597617.002	3468712.523	4513.40	6/4/14	85.88	4427.52
LADD 977	642977	597617.002	3468712.523	4513.40	9/10/14	86.15	4427.25
LADD 977	642977	597617.002	3468712.523	4513.40	11/20/14	80.95	4432.45
LADD 977	642977	597617.002	3468712.523	4513.40	3/24/15	83.73	4429.67
LADD 977	642977	597617.002	3468712.523	4513.40	5/19/15	84.28	4429.12
LADD 977	642977	597617.002	3468712.523	4513.40	9/17/15	86.44	4426.96
LADD 977	642977	597617.002	3468712.523	4513.40	12/17/15	86.81	4426.59
LADD 977	642977	597617.002	3468712.523	4513.40	3/24/16	87.22	4426.18
LADD 977	642977	597617.002	3468712.523	4513.40	9/28/16	86.11	4427.29
LADD 977	642977	597617.002	3468712.523	4513.40	3/20/17	86.55	4426.85
LADD 977	642977	597617.002	3468712.523	4513.40	8/10/17	87.9	4425.50
LADD 977	642977	597617.002	3468712.523	4513.40	3/8/18	87.92	4425.48
LADD 977	642977	597617.002	3468712.523	4513.40	8/22/18	88.92	4424.48
LADD 977	642977	597617.002	3468712.523	4513.40	2/14/19	87.5	4425.90
LADD 977	642977	597617.002	3468712.523	4513.40	9/9/19	89.27	4424.13
LADD 977	642977	597617.002	3468712.523	4513.40	2/27/20	87.47	4425.93
LADD 977	642977	597617.002	3468712.523	4513.40	8/25/20	89.28	4424.12
LADD 977	642977	597617.002	3468712.523	4513.40	3/23/21	90.20	4423.20
LADD 977	642977	597617.002	3468712.523	4513.40	9/20/21	88.60	4424.80
LADD 977	642977	597617.002	3468712.523	4513.40	3/14/22	90.74	4422.66
LADD 977	642977	597617.002	3468712.523	4513.40	9/22/22	88.76	4424.64
LADD 977	642977	597617.002	3468712.523	4513.40	3/14/23	90.31	4423.09
LADD 977	642977	597617.002	3468712.523	4513.40	9/19/23	92.02	4421.38
LADD 977	642977	597617.002	3468712.523	4513.40	3/20/24	92.12	4421.28
LADD 977	642977	597617.002	3468712.523	4513.40	9/26/24	93.07	4420.33
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	2/20/08	156.15	4444.55
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	5/6/08	156.40	4444.30
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/15/08	157.07	4443.63
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	11/19/08	157.17	4443.53
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/28/09	156.70	4444.00
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	4/15/09	157.22	4443.48
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/15/09	157.59	4443.11
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/12/09	158.13	4442.57
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/26/10	158.35	4442.35
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	4/22/10	158.68	4442.02
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/21/10	159.37	4441.33
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/18/10	159.63	4441.07
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/19/11	159.69	4441.01
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	4/8/11	159.10	4441.60
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/12/11	160.77	4439.93
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/11/11	161.17	4439.53
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	2/7/12	161.31	4439.39
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	4/11/12	161.57	4439.13
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/6/12	162.36	4438.34
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/8/12	162.43	4438.27
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/10/13	162.57	4438.13

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	4/18/13	163.08	4437.62
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/14/13	163.61	4437.09
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/8/14	163.42	4437.28
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	4/14/14	163.79	4436.91
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/14/14	164.03	4436.67
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/7/14	163.89	4436.81
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	2/2/15	163.32	4437.38
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	5/19/15	163.54	4437.16
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/31/15	163.83	4436.87
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	10/8/15	163.64	4437.06
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/11/16	163.36	4437.34
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/26/16	167.70	4433.00
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/16/17	164.46	4436.24
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/20/17	165.09	4435.61
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/15/18	165.10	4435.60
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/17/18	165.09	4435.61
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/9/19	166.29	4434.41
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/10/19	166.91	4433.79
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/16/20	167.28	4433.42
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	8/10/20	167.46	4433.24
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/5/21	167.96	4432.74
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/27/21	168.73	4431.97
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/27/22	169.37	4431.33
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	7/12/22	169.66	4431.04
MCCONNELL 265	539265	601463.091	3468840.174	4600.70	1/12/23	170.03	4430.67
MCCONNELL 459	221459	601471.745	3468840.235	4601.55	7/27/12	170.50	4431.05
MCCONNELL 459	221459	601471.745	3468840.235	4601.55	10/8/12	166.81	4434.74
MCCONNELL 459	221459	601471.745	3468840.235	4601.55	1/15/13	166.32	4435.23
MCCONNELL 459	221459	601471.745	3468840.235	4601.55	4/10/13	166.79	4434.76
MCCONNELL 459	221459	601471.745	3468840.235	4601.55	7/19/13	167.53	4434.02
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	10/14/13	167.13	4434.42
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	1/8/14	167.90	4433.65
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	4/14/14	167.28	4434.27
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	9/9/14	167.37	4434.18
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	10/7/14	167.24	4434.31
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	5/19/15	168.03	4433.52
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/31/15	170.86	4430.69
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/26/16	167.13	4434.42
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/20/17	168.58	4432.97
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/17/18	169.08	4432.47
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/10/19	170.81	4430.74
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	8/10/20	171.11	4430.44
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/27/21	171.67	4429.88
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	7/12/22	179.50	4422.05
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	8/4/23	173.51	4428.04
MCCONNELL 459	221459	601471.7449	3468840.235	4601.55	8/1/24	174.45	4427.10
METZLER	35-71891	602091.309	3471381.2	4728.53	3/5/08	288.30	4440.23
METZLER	35-71891	602091.309	3471381.2	4728.53	5/15/08	286.53	4442.00
METZLER	35-71891	602091.309	3471381.200	4728.53	7/31/08	286.82	4441.71
METZLER	35-71891	602091.309	3471381.200	4728.53	10/20/08	287.09	4441.44
METZLER	35-71891	602091.309	3471381.200	4728.53	2/11/09	287.74	4440.79
METZLER	35-71891	602091.309	3471381.200	4728.53	4/20/09	287.47	4441.06
METZLER	35-71891	602091.309	3471381.200	4728.53	7/15/09	287.58	4440.95
METZLER	35-71891	602091.309	3471381.200	4728.53	10/14/09	287.99	4440.54

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
METZLER	35-71891	602091.309	3471381.200	4728.53	2/1/10	288.38	4440.15
METZLER	35-71891	602091.309	3471381.200	4728.53	5/18/10	288.65	4439.88
METZLER	35-71891	602091.309	3471381.200	4728.53	7/16/10	288.88	4439.65
METZLER	35-71891	602091.309	3471381.200	4728.53	10/19/10	289.09	4439.44
METZLER	35-71891	602091.309	3471381.200	4728.53	1/19/11	289.54	4438.99
METZLER	35-71891	602091.309	3471381.200	4728.53	4/4/11	289.87	4438.66
METZLER	35-71891	602091.309	3471381.200	4728.53	7/12/11	289.98	4438.55
METZLER	35-71891	602091.309	3471381.200	4728.53	10/12/11	290.47	4438.06
METZLER	35-71891	602091.309	3471381.200	4728.53	2/7/12	290.92	4437.61
METZLER	35-71891	602091.309	3471381.200	4728.53	4/12/12	291.15	4437.38
METZLER	35-71891	602091.309	3471381.200	4728.53	7/18/12	291.37	4437.16
METZLER	35-71891	602091.309	3471381.200	4728.53	10/4/12	291.63	4436.90
METZLER	35-71891	602091.309	3471381.200	4728.53	1/11/13	292.15	4436.38
METZLER	35-71891	602091.309	3471381.200	4728.53	4/11/13	292.29	4436.24
METZLER	35-71891	602091.309	3471381.2	4728.53	7/17/13	292.43	4436.10
METZLER	35-71891	602091.309	3471381.2	4728.53	10/17/13	292.86	4435.67
METZLER	35-71891	602091.309	3471381.2	4728.53	1/16/14	293.20	4435.33
METZLER	35-71891	602091.309	3471381.2	4728.53	4/15/14	293.20	4435.33
METZLER	35-71891	602091.309	3471381.2	4728.53	7/21/14	293.45	4435.08
METZLER	35-71891	602091.309	3471381.2	4728.53	10/8/14	293.62	4434.91
METZLER	35-71891	602091.309	3471381.2	4728.53	1/27/15	293.36	4435.17
METZLER	35-71891	602091.309	3471381.2	4728.53	8/3/15	293.54	4434.99
METZLER	35-71891	602091.309	3471381.2	4728.53	1/12/16	293.69	4434.84
METZLER	35-71891	602091.309	3471381.2	4728.53	7/25/16	293.40	4435.13
METZLER	35-71891	602091.309	3471381.2	4728.53	1/17/17	294.09	4434.44
METZLER	35-71891	602091.309	3471381.2	4728.53	7/14/17	294.38	4434.15
METZLER	35-71891	602091.309	3471381.2	4728.53	1/15/18	294.51	4434.02
METZLER	35-71891	602091.309	3471381.2	4728.53	7/17/18	294.94	4433.59
METZLER	35-71891	602091.309	3471381.2	4728.53	1/14/19	295.08	4433.45
METZLER	35-71891	602091.309	3471381.2	4728.53	7/12/19	295.54	4432.99
METZLER	35-71891	602091.309	3471381.2	4728.53	1/15/20	295.76	4432.77
METZLER	35-71891	602091.309	3471381.200	4728.53	8/11/20	295.97	4432.56
METZLER	35-71891	602091.309	3471381.200	4728.53	1/7/21	296.41	4432.12
METZLER	35-71891	602091.309	3471381.200	4728.53	7/19/21	297.02	4431.51
METZLER	35-71891	602091.309	3471381.200	4728.53	1/31/22	297.64	4430.89
METZLER	35-71891	602091.309	3471381.200	4728.53	7/7/22	298.22	4430.31
METZLER	35-71891	602091.309	3471381.200	4728.53	1/12/23	298.59	4429.94
METZLER	35-71891	602091.309	3471381.200	4728.53	7/20/23	299.08	4429.45
METZLER	35-71891	602091.309	3471381.200	4728.53	1/16/24	299.56	4428.97
METZLER	35-71891	602091.309	3471381.200	4728.53	8/13/24	300.10	4428.43
MOORE	538847	599557.021	3467843.686	4568.49	8/1/18	155.64	4412.85
MOORE	538847	599557.021	3467843.686	4568.49	7/9/19	157.43	4411.06
MOORE	538847	599557.021	3467843.686	4568.49	7/22/20	157.32	4411.17
MOORE	538847	599557.021	3467843.686	4568.49	7/28/21	158.86	4409.63
MOORE	538847	599557.021	3467843.686	4568.49	7/7/22	159.46	4409.03
MOORE	538847	599557.021	3467843.686	4568.49	8/4/23	160.52	4407.97
MOORE	538847	599557.021	3467843.686	4568.49	8/16/24	162.30	4406.19
NESS	509127	607866.391	3471419.494	4761.23	7/24/08	557.90	4203.33
NESS	509127	607866.391	3471419.494	4761.23	10/16/08	549.30	4211.93
NESS	509127	607866.391	3471419.494	4761.23	2/25/09	536.40	4224.83
NESS	509127	607866.391	3471419.494	4761.23	5/11/09	544.64	4216.59
NESS	509127	607866.391	3471419.494	4761.23	8/11/09	566.87	4194.36
NESS	509127	607866.391	3471419.494	4761.23	11/12/09	537.34	4223.89
NESS	509127	607866.391	3471419.494	4761.23	2/2/10	531.85	4229.38

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
NESS	509127	607866.391	3471419.494	4761.23	4/21/10	568.11	4193.12
NESS	509127	607866.391	3471419.494	4761.23	7/19/10	573.02	4188.21
NESS	509127	607866.391	3471419.494	4761.23	1/18/11	541.80	4219.43
NESS	509127	607866.391	3471419.494	4761.23	7/12/11	597.71	4163.52
NESS	509127	607866.391	3471419.494	4761.23	2/3/12	591.24	4169.99
NESS	509127	607866.391	3471419.494	4761.23	1/9/13	551.35	4209.88
NESS	509127	607866.391	3471419.494	4761.23	1/6/14	538.84	4222.39
NESS	509127	607866.391	3471419.494	4761.23	7/7/14	594.42	4166.81
NESS	509127	607866.391	3471419.494	4761.23	7/20/15	553.54	4207.69
NESS	509127	607866.391	3471419.494	4761.23	7/11/16	556.90	4204.33
NESS	509127	607866.391	3471419.494	4761.23	7/27/17	550.36	4210.87
NESS	509127	607866.391	3471419.494	4761.23	7/31/18	538.72	4222.51
NESS	509127	607866.391	3471419.494	4761.23	7/11/19	575.06	4186.17
NESS	509127	607866.391	3471419.494	4761.23	8/14/20	584.34	4176.89
NESS	509127	607866.391	3471419.494	4761.23	7/19/21	610.72	4150.51
NESS	509127	607866.391	3471419.494	4761.23	7/27/23	537.34	4223.89
NESS	509127	607866.391	3471419.494	4761.23	7/31/24	554.96	4206.27
NOTEMAN	212483	606053.795	3471576.420	4800.68	5/13/08	339.77	4460.91
NOTEMAN	212483	606053.795	3471576.420	4800.68	8/27/08	344.34	4456.34
NOTEMAN	212483	606053.795	3471576.420	4800.68	11/22/08	322.26	4478.42
NOTEMAN	212483	606053.795	3471576.420	4800.68	2/25/09	327.54	4473.14
NOTEMAN	212483	606053.795	3471576.420	4800.68	7/27/23	371.17	4429.51
NSD-02	527587	598820.394	3468819.128	4531.38	10/7/09	101.17	4430.21
NSD-02	527587	598820.394	3468819.128	4531.38	3/16/10	99.43	4431.95
NSD-02	527587	598820.394	3468819.128	4531.38	5/25/10	101.63	4429.75
NSD-02	527587	598820.394	3468819.128	4531.38	8/25/10	102.38	4429.00
NSD-02	527587	598820.394	3468819.128	4531.38	3/17/11	102.68	4428.70
NSD-02	527587	598820.394	3468819.128	4531.38	6/17/11	109.29	4422.09
NSD-02	527587	598820.394	3468819.128	4531.38	12/7/11	104.41	4426.97
NSD-02	527587	598820.394	3468819.128	4531.38	3/6/12	104.30	4427.08
NSD-02	527587	598820.3944	3468819.128	4531.38	12/14/12	107.24	4424.14
NSD-02	527587	598820.3944	3468819.128	4531.38	3/22/13	107.20	4424.18
NSD-02	527587	598820.3944	3468819.128	4531.38	6/24/13	113.50	4417.88
NSD-02	527587	598820.3944	3468819.128	4531.38	9/23/13	105.00	4426.38
NSD-02	527587	598820.394	3468819.128	4531.38	12/19/13	103.45	4427.93
NSD-02	527587	598820.394	3468819.128	4531.38	3/24/14	103.12	4428.26
NSD-02	527587	598820.394	3468819.128	4531.38	6/23/14	107.06	4424.32
NSD-02	527587	598820.394	3468819.128	4531.38	9/23/14	104.77	4426.61
NSD-02	527587	598820.394	3468819.128	4531.38	12/22/14	101.30	4430.08
NSD-02	527587	598820.3944	3468819.128	4531.38	3/23/15	101.56	4429.82
NSD-02	527587	598820.3944	3468819.128	4531.38	6/22/15	104.33	4427.05
NSD-02	527587	598820.3944	3468819.128	4531.38	9/28/15	113.64	4417.74
NSD-02	527587	598820.3944	3468819.128	4531.38	12/21/15	112.43	4418.95
NSD-02	527587	598820.3944	3468819.128	4531.38	3/21/16	113.42	4417.96
NSD-02	527587	598820.3944	3468819.128	4531.38	6/20/16	114.78	4416.60
NSD-02	527587	598820.3944	3468819.128	4531.38	9/29/16	103.99	4427.39
NSD-02	527587	598820.3944	3468819.128	4531.38	3/16/17	105.44	4425.94
NSD-02	527587	598820.3944	3468819.128	4531.38	9/30/17	108.89	4422.49
NSD-02	527587	598820.3944	3468819.128	4531.38	3/26/18	106.02	4425.36
NSD-02	527587	598820.3944	3468819.128	4531.38	9/24/18	106.13	4425.25
NSD-02	527587	598820.3944	3468819.128	4531.38	3/18/19	105.00	4426.38
NSD-02	527587	598820.3944	3468819.128	4531.38	7/30/19	112.53	4418.85
NSD-02	527587	598820.3944	3468819.128	4531.38	1/30/20	105.28	4426.10
NSD-02	527587	598820.3944	3468819.128	4531.38	7/30/20	108.14	4423.24

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
NSD-02	527587	598820.3944	3468819.128	4531.38	2/9/21	107.95	4423.43
NSD-02	527587	598820.3944	3468819.128	4531.38	7/28/21	109.64	4421.74
NSD-02	527587	598820.3944	3468819.128	4531.38	1/26/22	108.39	4422.99
NSD-02	527587	598820.3944	3468819.128	4531.38	7/28/22	111.65	4419.73
NSD-02	527587	598820.3944	3468819.128	4531.38	1/31/23	109.86	4421.52
NSD-02	527587	598820.3944	3468819.128	4531.38	8/10/23	111.27	4420.11
NSD-02	527587	598820.3944	3468819.128	4531.38	1/30/24	119.18	4412.20
NSD-02	527587	598820.3944	3468819.128	4531.38	8/15/24	111.43	4419.95
NSD-03	527586	598071.794	3468691.276	4518.28	10/7/09	85.62	4432.66
NSD-03	527586	598071.794	3468691.276	4518.28	3/16/10	83.51	4434.77
NSD-03	527586	598071.794	3468691.276	4518.28	5/25/10	84.49	4433.79
NSD-03	527586	598071.794	3468691.276	4518.28	8/25/10	85.70	4432.58
NSD-03	527586	598071.794	3468691.276	4518.28	3/17/11	86.76	4431.52
NSD-03	527586	598071.794	3468691.276	4518.28	6/17/11	88.76	4429.52
NSD-03	527586	598071.794	3468691.276	4518.28	12/7/11	89.30	4428.98
NSD-03	527586	598071.794	3468691.276	4518.28	3/6/12	89.24	4429.04
NSD-03	527586	598071.794	3468691.276	4518.28	12/14/12	90.83	4427.45
NSD-03	527586	598071.794	3468691.276	4518.28	3/22/13	88.65	4429.63
NSD-03	527586	598071.794	3468691.276	4518.28	6/24/13	91.70	4426.58
NSD-03	527586	598071.794	3468691.276	4518.28	9/23/13	86.88	4431.40
NSD-03	527586	598071.7944	3468691.276	4518.28	12/19/13	89.11	4429.17
NSD-03	527586	598071.794	3468691.276	4518.28	3/24/14	89.48	4428.80
NSD-03	527586	598071.794	3468691.276	4518.28	6/23/14	90.77	4427.51
NSD-03	527586	598071.794	3468691.276	4518.28	9/23/14	89.10	4429.18
NSD-03	527586	598071.794	3468691.276	4518.28	12/22/14	86.80	4431.48
NSD-03	527586	598071.794	3468691.276	4518.28	3/23/15	87.68	4430.60
NSD-03	527586	598071.794	3468691.276	4518.28	6/22/15	89.40	4428.88
NSD-03	527586	598071.794	3468691.276	4518.28	9/28/15	90.65	4427.63
NSD-03	527586	598071.794	3468691.276	4518.28	12/21/15	90.97	4427.31
NSD-03	527586	598071.794	3468691.276	4518.28	3/21/16	91.30	4426.98
NSD-03	527586	598071.794	3468691.276	4518.28	6/20/16	92.16	4426.12
NSD-03	527586	598071.794	3468691.276	4518.28	9/29/16	89.50	4428.78
NSD-03	527586	598071.794	3468691.276	4518.28	3/16/17	89.81	4428.47
NSD-03	527586	598071.794	3468691.276	4518.28	9/30/17	90.71	4427.57
NSD-03	527586	598071.7944	3468691.276	4518.28	3/26/18	91.28	4427.00
NSD-03	527586	598071.7944	3468691.276	4518.28	9/24/18	92.22	4426.06
NSD-03	527586	598071.7944	3468691.276	4518.28	3/18/19	91.01	4427.27
NSD-03	527586	598071.7944	3468691.276	4518.28	7/30/19	93.64	4424.64
NSD-03	527586	598071.7944	3468691.276	4518.28	1/30/20	90.87	4427.41
NSD-03	527586	598071.7944	3468691.276	4518.28	7/30/20	93.51	4424.77
NSD-03	527586	598071.7944	3468691.276	4518.28	2/9/21	93.94	4424.34
NSD-03	527586	598071.7944	3468691.276	4518.28	7/28/21	94.33	4423.95
NSD-03	527586	598071.7944	3468691.276	4518.28	1/26/22	93.66	4424.62
NSD-03	527586	598071.7944	3468691.276	4518.28	1/31/23	93.41	4424.87
NSD-03	527586	598071.7944	3468691.276	4518.28	8/10/23	DRY	DRY
NSD-03	527586	598071.7944	3468691.276	4518.28	1/30/24	DRY	DRY
NSD-03	527586	598071.7944	3468691.276	4518.28	8/15/24	DRY	DRY
NWC-02	562944	600181.5932	3467461.037	4600.44	10/27/08	160.51	4439.93
NWC-02	562944	600181.5932	3467461.037	4600.44	4/29/09	160.5	4439.94
NWC-02	562944	600181.5932	3467461.037	4600.44	9/10/09	155	4445.44
NWC-02	562944	600181.5932	3467461.037	4600.44	4/1/10	131	4469.44
NWC-02	562944	600181.5932	3467461.037	4600.44	3/1/13	131	4469.44
NWC-02	562944	600181.5932	3467461.037	4600.44	2/12/15	165.02	4435.42
NWC-02	562944	600181.5932	3467461.037	4600.44	7/30/15	166.36	4434.08

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
NWC-02	562944	600181.5932	3467461.037	4600.44	10/6/15	165.92	4434.52
NWC-02	562944	600181.5932	3467461.037	4600.44	1/12/16	166.36	4434.08
NWC-02	562944	600181.5932	3467461.037	4600.44	7/26/16	167.43	4433.01
NWC-02	562944	600181.5932	3467461.037	4600.44	1/26/17	167.49	4432.95
NWC-02	562944	600181.5932	3467461.037	4600.44	7/18/17	168.60	4431.84
NWC-02	562944	600181.5932	3467461.037	4600.44	1/16/18	168.50	4431.94
NWC-02	562944	600181.5932	3467461.037	4600.44	7/18/18	169.35	4431.09
NWC-02	562944	600181.5932	3467461.037	4600.44	1/7/19	170.50	4429.94
NWC-02	562944	600181.5932	3467461.037	4600.44	7/9/19	170.59	4429.85
NWC-02	562944	600181.5932	3467461.037	4600.44	1/16/20	171.98	4428.46
NWC-02	562944	600181.5932	3467461.037	4600.44	7/22/20	171.19	4429.25
NWC-02	562944	600181.5932	3467461.037	4600.44	1/12/21	172.33	4428.11
NWC-02	562944	600181.5932	3467461.037	4600.44	7/22/21	173.15	4427.29
NWC-02	562944	600181.5932	3467461.037	4600.44	2/1/22	173.42	4427.02
NWC-02	562944	600181.5932	3467461.037	4600.44	1/24/23	174.10	4426.34
NWC-02	562944	600181.5932	3467461.037	4600.44	2/2/23	173.93	4426.51
NWC-02	562944	600181.5932	3467461.037	4600.44	8/9/23	174.55	4425.89
NWC-02	562944	600181.5932	3467461.037	4600.44	8/9/24	176.08	4424.36
NWC-03	203321	601153.857	3468350.838	4574.99	11/3/08	131.48	4443.51
NWC-03	203321	601153.857	3468350.838	4574.99	4/29/09	130	4444.99
NWC-03	203321	601153.857	3468350.838	4574.99	9/10/09	126	4448.99
NWC-03	203321	601153.857	3468350.838	4574.99	10/9/09	125	4449.99
NWC-04	551849	605829.808	3469071.959	4690.77	12/2/08	352.11	4338.66
NWC-04	551849	605829.808	3469071.959	4690.77	4/29/09	328	4362.77
NWC-04	551849	605829.808	3469071.959	4690.77	9/10/09	324	4366.77
NWC-04	551849	605829.808	3469071.959	4690.77	4/1/10	216	4474.77
NWC-04	551849	605829.808	3469071.959	4690.77	3/1/13	216	4474.77
NWC-06	575700	599822.821	3467749.954	4592.50	4/29/09	156	4436.50
NWC-06	575700	599822.821	3467749.954	4592.50	9/10/09	155	4437.50
NWC-06	575700	599822.821	3467749.954	4592.50	10/9/09	148	4444.50
NWC-06	575700	599822.821	3467749.954	4592.50	4/1/10	140	4452.50
NWC-06	575700	599822.821	3467749.954	4592.50	3/1/13	140	4452.50
NWC-06	575700	599822.821	3467749.954	4592.50	7/30/15	160.95	4431.55
NWC-06	575700	599822.821	3467749.954	4592.50	10/6/15	160.48	4432.02
NWC-06	575700	599822.821	3467749.954	4592.50	1/12/16	168.81	4423.69
NWC-06	575700	599822.821	3467749.954	4592.50	7/26/16	167.73	4424.77
NWC-06	575700	599822.821	3467749.954	4592.50	1/26/17	162.26	4430.24
NWC-06	575700	599822.821	3467749.954	4592.50	7/18/17	162.80	4429.70
NWC-06	575700	599822.821	3467749.954	4592.50	1/16/18	162.78	4429.72
NWC-06	575700	599822.821	3467749.954	4592.50	7/18/18	163.77	4428.73
NWC-06	575700	599822.821	3467749.954	4592.50	1/7/19	164.68	4427.82
NWC-06	575700	599822.821	3467749.954	4592.50	7/9/19	165.28	4427.22
NWC-06	575700	599822.821	3467749.954	4592.50	1/16/20	165.12	4427.38
NWC-06	575700	599822.821	3467749.954	4592.50	7/22/20	165.81	4426.69
NWC-06	575700	599822.821	3467749.954	4592.50	1/12/21	166.51	4425.99
NWC-06	575700	599822.821	3467749.954	4592.50	7/22/21	167.26	4425.24
NWC-06	575700	599822.821	3467749.954	4592.50	2/1/22	167.67	4424.83
NWC-06	575700	599822.821	3467749.954	4592.50	7/14/22	175.62	4416.88
NWC-06	575700	599822.821	3467749.954	4592.50	2/2/23	168.13	4424.37
NWC-06	575700	599822.821	3467749.954	4592.50	8/9/23	169.11	4423.39
NWC-06	575700	599822.821	3467749.954	4592.50	8/9/24	178.20	4414.30
OLMOS	224745	599641.506	3468055.337	4576.92	1/13/16	145.84	4431.08
OLMOS	224745	599641.506	3468055.337	4576.92	1/15/18	148.47	4428.45
OLMOS	224745	599641.506	3468055.337	4576.92	7/13/18	150.28	4426.64

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
OLMOS	224745	599641.506	3468055.337	4576.92	1/14/19	150.75	4426.17
OLMOS	224745	599641.506	3468055.337	4576.92	7/8/19	151.52	4425.40
OLMOS	224745	599641.506	3468055.337	4576.92	1/17/20	151.52	4425.40
OLMOS	224745	599641.5055	3468055.337	4576.92	8/5/20	152.38	4424.54
OLMOS	224745	599641.5055	3468055.337	4576.92	1/8/21	152.98	4423.94
OLMOS	224745	599641.5055	3468055.337	4576.92	7/29/21	153.85	4423.07
OLMOS	224745	599641.5055	3468055.337	4576.92	1/26/22	153.97	4422.95
OLMOS	224745	599641.5055	3468055.337	4576.92	7/12/22	153.29	4423.63
OLMOS	224745	599641.5055	3468055.337	4576.92	1/11/23	154.17	4422.75
OLMOS	224745	599641.5055	3468055.337	4576.92	8/1/23	155.79	4421.13
OLMOS	224745	599641.5055	3468055.337	4576.92	1/17/24	156.09	4420.83
OLMOS	224745	599641.5055	3468055.337	4576.92	8/12/24	157.51	4419.41
OSBORN	643436	607031.823	3470270.548	4711.95	5/13/08	68.65	4643.30
OSBORN	643436	607031.823	3470270.548	4711.95	8/5/08	69.53	4642.42
OSBORN	643436	607031.823	3470270.548	4711.95	10/16/08	69.83	4642.12
OSBORN	643436	607031.823	3470270.548	4711.95	1/20/09	69.23	4642.72
OSBORN	643436	607031.823	3470270.548	4711.95	4/7/09	69.60	4642.35
OSBORN	643436	607031.823	3470270.548	4711.95	7/8/09	96.61	4615.34
OSBORN	643436	607031.823	3470270.548	4711.95	10/5/09	75.09	4636.86
OSBORN	643436	607031.823	3470270.548	4711.95	1/21/10	75.37	4636.58
OSBORN	643436	607031.823	3470270.548	4711.95	4/19/10	81.59	4630.36
OSBORN	643436	607031.823	3470270.548	4711.95	7/12/10	83.00	4628.95
OSBORN	643436	607031.823	3470270.548	4711.95	7/12/11	74.60	4637.35
OSBORN	643436	607031.823	3470270.548	4711.95	2/3/12	74.57	4637.38
OSBORN	643436	607031.823	3470270.548	4711.95	7/9/12	74.63	4637.32
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/22/09	155.28	4536.12
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	4/9/09	156.15	4535.25
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/9/09	161.61	4529.79
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	10/6/09	167.20	4524.20
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/21/10	166.92	4524.48
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	4/20/10	167.11	4524.29
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/20/10	171.78	4519.62
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	10/18/10	176.39	4515.01
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/14/11	173.78	4517.62
PANAGAKOS	35-76413	605311.6809	3469320.987	4691.40	8/25/11	172.89	4518.51
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	2/6/12	169.09	4522.31
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	2/29/12	169.32	4522.08
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	3/15/12	169.64	4521.76
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	4/12/12	168.85	4522.55
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/9/12	170.38	4521.02
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	11/27/12	169.82	4521.58
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/18/13	169.12	4522.28
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	2/6/13	168.76	4522.64
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	4/9/13	167.79	4523.61
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/10/13	168.51	4522.89
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	10/15/13	164.49	4526.91
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/10/14	160.32	4531.08
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	4/16/14	158.75	4532.65
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/17/14	159.69	4531.71
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	10/16/14	159.28	4532.12
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/26/15	158.02	4533.38
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/27/15	160.04	4531.36
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/11/16	160.50	4530.90
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	2/24/17	162.64	4528.76

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/17/17	160.37	4531.03
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/18/18	160.12	4531.28
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/30/18	161.94	4529.46
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/15/19	167.97	4523.43
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/8/19	166.86	4524.54
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/14/20	166.69	4524.71
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	8/13/20	163.46	4527.94
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/11/21	162.45	4528.95
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/22/21	162.18	4529.22
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/31/22	164.40	4527.00
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/7/22	168.09	4523.31
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	2/3/23	187.21	4504.19
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/25/23	173.92	4517.48
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	1/17/24	170.31	4521.09
PANAGAKOS	35-76413	605311.681	3469320.987	4691.40	7/31/24	178.52	4512.88
PARRA	576415	602170.711	3471263.571	4727.21	5/15/08	279.78	4447.43
PARRA	576415	602170.711	3471263.571	4727.21	8/18/08	280.06	4447.15
PARRA	576415	602170.711	3471263.571	4727.21	11/3/08	280.39	4446.82
PARRA	576415	602170.711	3471263.571	4727.21	2/13/09	280.75	4446.46
PARRA	576415	602170.711	3471263.571	4727.21	4/28/09	280.88	4446.33
PARRA	576415	602170.711	3471263.571	4727.21	7/20/09	280.99	4446.22
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/17/08	149.88	4442.25
PIONKE 395	613395	601041.3783	3468961.642	4592.13	11/3/08	150.99	4441.14
PIONKE 395	613395	601041.3783	3468961.642	4592.13	2/25/09	149.68	4442.45
PIONKE 395	613395	601041.3783	3468961.642	4592.13	4/14/09	150.01	4442.12
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/13/09	150.47	4441.66
PIONKE 395	613395	601041.3783	3468961.642	4592.13	10/7/09	150.96	4441.17
PIONKE 395	613395	601041.3783	3468961.642	4592.13	3/8/10	151.11	4441.02
PIONKE 395	613395	601041.3783	3468961.642	4592.13	4/26/10	151.32	4440.81
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/15/10	151.90	4440.23
PIONKE 395	613395	601041.378	3468961.642	4592.13	10/18/10	152.38	4439.75
PIONKE 395	613395	601041.378	3468961.642	4592.13	1/19/11	152.38	4439.75
PIONKE 395	613395	601041.378	3468961.642	4592.13	4/8/11	153.04	4439.09
PIONKE 395	613395	601041.378	3468961.642	4592.13	7/12/11	153.57	4438.56
PIONKE 395	613395	601041.378	3468961.642	4592.13	10/11/11	153.87	4438.26
PIONKE 395	613395	601041.378	3468961.642	4592.13	2/1/12	153.92	4438.21
PIONKE 395	613395	601041.378	3468961.642	4592.13	4/12/12	154.35	4437.78
PIONKE 395	613395	601041.378	3468961.642	4592.13	7/11/12	154.97	4437.16
PIONKE 395	613395	601041.378	3468961.642	4592.13	10/17/12	155.31	4436.82
PIONKE 395	613395	601041.378	3468961.642	4592.13	1/9/13	155.25	4436.88
PIONKE 395	613395	601041.378	3468961.642	4592.13	4/17/13	155.76	4436.37
PIONKE 395	613395	601041.378	3468961.642	4592.13	7/18/13	156.09	4436.04
PIONKE 395	613395	601041.378	3468961.642	4592.13	10/17/13	156.39	4435.74
PIONKE 395	613395	601041.378	3468961.642	4592.13	2/5/14	155.84	4436.29
PIONKE 395	613395	601041.378	3468961.642	4592.13	4/9/14	156.21	4435.92
PIONKE 395	613395	601041.378	3468961.642	4592.13	7/11/14	156.66	4435.47
PIONKE 395	613395	601041.378	3468961.642	4592.13	10/7/14	156.47	4435.66
PIONKE 395	613395	601041.378	3468961.642	4592.13	2/2/15	155.81	4436.32
PIONKE 395	613395	601041.378	3468961.642	4592.13	5/18/15	155.97	4436.16
PIONKE 395	613395	601041.378	3468961.642	4592.13	7/22/15	156.29	4435.84
PIONKE 395	613395	601041.378	3468961.642	4592.13	10/8/15	156.03	4436.10
PIONKE 395	613395	601041.378	3468961.642	4592.13	1/11/16	155.64	4436.49
PIONKE 395	613395	601041.378	3468961.642	4592.13	7/26/16	156.55	4435.58
PIONKE 395	613395	601041.378	3468961.642	4592.13	1/16/17	156.92	4435.21

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
PIONKE 395	613395	601041.378	3468961.642	4592.13	9/30/17	157.63	4434.50
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/15/18	157.42	4434.71
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/24/18	158.37	4433.76
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/7/19	158.89	4433.24
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/11/19	159.32	4432.81
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/8/20	159.43	4432.70
PIONKE 395	613395	601041.3783	3468961.642	4592.13	8/12/20	159.73	4432.40
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/5/21	160.22	4431.91
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/23/21	160.98	4431.15
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/26/22	161.55	4430.58
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/12/22	161.90	4430.23
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/12/23	162.13	4430.00
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/21/23	162.48	4429.65
PIONKE 395	613395	601041.3783	3468961.642	4592.13	1/16/24	163.19	4428.94
PIONKE 395	613395	601041.3783	3468961.642	4592.13	7/24/24	163.96	4428.17
PIONKE 517	221517	600908.160	3468864.610	4587.20792	9/18/12	152.00	4435.21
PIONKE 517	221517	600908.160	3468864.610	4587.20792	10/11/12	152.15	4435.06
PIONKE 517	221517	600908.160	3468864.610	4587.20792	1/9/13	152.23	4434.98
PIONKE 517	221517	600908.160	3468864.610	4587.20792	4/17/13	152.58	4434.63
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/16/13	153.11	4434.10
PIONKE 517	221517	600908.160	3468864.610	4587.20792	10/17/13	153.27	4433.94
PIONKE 517	221517	600908.160	3468864.610	4587.20792	3/5/14	153.24	4433.97
PIONKE 517	221517	600908.160	3468864.610	4587.20792	4/9/14	153.07	4434.14
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/11/14	153.56	4433.65
PIONKE 517	221517	600908.160	3468864.610	4587.20792	10/7/14	153.31	4433.90
PIONKE 517	221517	600908.160	3468864.610	4587.20792	5/18/15	152.76	4434.45
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/22/15	153.12	4434.09
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/26/16	153.32	4433.89
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/18/17	154.44	4432.77
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/24/18	155.18	4432.03
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/11/19	156.16	4431.05
PIONKE 517	221517	600908.160	3468864.610	4587.20792	8/12/20	156.55	4430.66
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/23/21	157.77	4429.44
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/12/22	158.65	4428.56
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/21/23	159.30	4427.91
PIONKE 517	221517	600908.160	3468864.610	4587.20792	7/24/24	161.90	4425.31
POOL	509518	599683.615	3470013.855	4639.09	2/20/08	204.22	4434.87
POOL	509518	599683.615	3470013.855	4639.09	5/19/08	204.72	4434.37
POOL	509518	599683.615	3470013.855	4639.09	7/31/08	205.56	4433.53
POOL	509518	599683.615	3470013.855	4639.09	10/21/08	205.06	4434.03
POOL	509518	599683.615	3470013.855	4639.09	2/13/09	204.74	4434.35
POOL	509518	599683.615	3470013.855	4639.09	4/21/09	204.87	4434.22
POOL	509518	599683.615	3470013.855	4639.09	7/20/09	205.69	4433.40
POOL	509518	599683.615	3470013.855	4639.09	10/20/09	206.06	4433.03
POOL	509518	599683.615	3470013.855	4639.09	2/24/10	205.59	4433.50
POOL	509518	599683.615	3470013.855	4639.09	4/22/10	205.48	4433.61
POOL	509518	599683.615	3470013.855	4639.09	7/14/10	206.58	4432.51
POOL	509518	599683.615	3470013.855	4639.09	10/20/10	206.74	4432.35
POOL	509518	599683.615	3470013.855	4639.09	3/21/16	209.98	4429.11
POOL	509518	599683.615	3470013.855	4639.09	8/1/18	212.45	4426.64
POOL	509518	599683.615	3470013.855	4639.09	7/10/19	212.88	4426.21
POOL	509518	599683.615	3470013.855	4639.09	8/10/20	213.56	4425.53
POOL	509518	599683.615	3470013.855	4639.09	7/20/21	214.78	4424.31
POWER 639	222639	602146.123	3471373.655	4734.38	1/16/14	294.07	4440.31

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
POWER 639	222639	602146.123	3471373.655	4734.38	2/5/14	294.07	4440.31
POWER 639	222639	602146.123	3471373.655	4734.38	3/5/14	294.20	4440.18
POWER 639	222639	602146.123	3471373.655	4734.38	4/15/14	294.14	4440.24
POWER 639	222639	602146.123	3471373.655	4734.38	5/13/14	294.25	4440.13
POWER 639	222639	602146.123	3471373.655	4734.38	6/23/14	294.28	4440.10
POWER 639	222639	602146.123	3471373.655	4734.38	7/17/14	294.32	4440.06
POWER 639	222639	602146.123	3471373.655	4734.38	8/11/14	294.44	4439.94
POWER 639	222639	602146.123	3471373.655	4734.38	9/9/14	294.47	4439.91
POWER 639	222639	602146.123	3471373.655	4734.38	10/8/14	294.49	4439.89
POWER 639	222639	602146.123	3471373.655	4734.38	1/27/15	294.24	4440.14
POWER 639	222639	602146.123	3471373.655	4734.38	3/10/15	294.19	4440.19
POWER 639	222639	602146.123	3471373.655	4734.38	4/28/15	294.17	4440.21
POWER 639	222639	602146.123	3471373.655	4734.38	5/14/15	249.23	4485.15
POWER 639	222639	602146.123	3471373.655	4734.38	6/11/15	294.29	4440.09
POWER 639	222639	602146.123	3471373.655	4734.38	7/30/15	294.38	4440.00
POWER 639	222639	602146.123	3471373.655	4734.38	1/14/16	294.65	4439.73
POWER 639	222639	602146.123	3471373.655	4734.38	7/27/16	294.81	4439.57
POWER 639	222639	602146.123	3471373.655	4734.38	1/26/17	295.05	4439.33
POWER 639	222639	602146.123	3471373.655	4734.38	7/12/17	295.25	4439.13
POWER 639	222639	602146.123	3471373.655	4734.38	1/10/18	295.47	4438.91
POWER 639	222639	602146.123	3471373.655	4734.38	7/25/18	295.75	4438.63
POWER 639	222639	602146.123	3471373.655	4734.38	1/14/19	295.96	4438.42
POWER 639	222639	602146.123	3471373.655	4734.38	7/12/19	296.56	4437.82
POWER 639	222639	602146.123	3471373.655	4734.38	1/15/20	296.68	4437.70
POWER 639	222639	602146.123	3471373.655	4734.38	8/13/20	296.98	4437.40
POWER 639	222639	602146.123	3471373.655	4734.38	1/13/21	297.41	4436.97
POWER 639	222639	602146.123	3471373.655	4734.38	7/19/21	297.92	4436.46
POWER 639	222639	602146.123	3471373.655	4734.38	1/31/22	298.54	4435.84
POWER 639	222639	602146.123	3471373.655	4734.38	7/7/22	299.06	4435.32
POWER 639	222639	602146.123	3471373.655	4734.38	1/25/23	299.52	4434.86
POWER 639	222639	602146.123	3471373.655	4734.38	7/20/23	299.94	4434.44
POWER 639	222639	602146.123	3471373.655	4734.38	1/16/24	300.40	4433.98
POWER 639	222639	602146.123	3471373.655	4734.38	8/13/24	301.02	4433.36
RAMIREZ	216425	599730.649	3467584.363	4596.61	10/27/08	159.45	4437.16
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/29/09	158.74	4437.87
RAMIREZ	216425	599730.649	3467584.363	4596.61	4/16/09	158.66	4437.95
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/10/09	159.64	4436.97
RAMIREZ	216425	599730.649	3467584.363	4596.61	10/6/09	160.36	4436.25
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/25/10	160.10	4436.51
RAMIREZ	216425	599730.649	3467584.363	4596.61	4/21/10	159.96	4436.65
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/21/10	161.05	4435.56
RAMIREZ	216425	599730.649	3467584.363	4596.61	10/19/10	161.23	4435.38
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/18/11	161.22	4435.39
RAMIREZ	216425	599730.649	3467584.363	4596.61	4/11/11	161.48	4435.13
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/18/11	162.39	4434.22
RAMIREZ	216425	599730.649	3467584.363	4596.61	10/12/11	163.04	4433.57
RAMIREZ	216425	599730.649	3467584.363	4596.61	4/10/12	163.22	4433.39
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/6/12	163.85	4432.76
RAMIREZ	216425	599730.649	3467584.363	4596.61	10/8/12	164.38	4432.23
RAMIREZ	216425	599730.649	3467584.363	4596.61	4/19/13	164.96	4431.65
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/13/14	165.26	4431.35
RAMIREZ	216425	599730.649	3467584.363	4596.61	4/14/14	164.85	4431.76
RAMIREZ	216425	599730.649	3467584.363	4596.61	2/2/15	164.33	4432.28
RAMIREZ	216425	599730.649	3467584.363	4596.61	5/28/15	164.39	4432.22

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/21/15	164.65	4431.96
RAMIREZ	216425	599730.649	3467584.363	4596.61	10/8/15	164.72	4431.89
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/14/16	164.15	4432.46
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/14/16	165.52	4431.09
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/26/17	166.81	4429.80
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/15/18	167.59	4429.02
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/25/18	167.71	4428.90
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/14/19	168.26	4428.35
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/9/19	189.06	4407.55
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/30/19	168.94	4427.67
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/13/20	169.12	4427.49
RAMIREZ	216425	599730.649	3467584.363	4596.61	8/6/20	169.88	4426.73
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/8/21	170.56	4426.05
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/29/21	171.34	4425.27
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/27/22	171.82	4424.79
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/7/22	171.94	4424.67
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/11/23	172.13	4424.48
RAMIREZ	216425	599730.649	3467584.363	4596.61	7/21/23	172.78	4423.83
RAMIREZ	216425	599730.649	3467584.363	4596.61	1/17/24	173.59	4423.02
RAMIREZ	216425	599730.649	3467584.363	4596.61	8/5/24	174.49	4422.12
RAY	803772	607083.416	3469195.163	4647.91	2/15/08	40.85	4607.06
RAY	803772	607083.416	3469195.163	4647.91	5/13/08	43.82	4604.09
RAY	803772	607083.416	3469195.163	4647.91	7/29/08	45.25	4602.66
RAY	803772	607083.416	3469195.163	4647.91	10/22/08	44.54	4603.37
RAY	803772	607083.416	3469195.163	4647.91	1/20/09	44.31	4603.60
RAY	803772	607083.416	3469195.163	4647.91	4/8/09	44.68	4603.23
RAY	803772	607083.416	3469195.163	4647.91	7/9/09	48.99	4598.92
RAY	803772	607083.416	3469195.163	4647.91	10/7/09	49.87	4598.04
RAY	803772	607083.416	3469195.163	4647.91	1/26/10	47.61	4600.30
RAY	803772	607083.416	3469195.163	4647.91	4/20/10	49.78	4598.13
RAY	803772	607083.416	3469195.163	4647.91	7/14/10	51.36	4596.55
RAY	803772	607083.416	3469195.163	4647.91	10/20/10	49.85	4598.06
RAY	803772	607083.416	3469195.163	4647.91	1/17/11	50.51	4597.40
RAY	803772	607083.416	3469195.163	4647.91	4/5/11	51.84	4596.07
RAY	803772	607083.416	3469195.163	4647.91	7/11/11	55.74	4592.17
RAY	803772	607083.416	3469195.163	4647.91	10/12/11	53.63	4594.28
RAY	803772	607083.416	3469195.163	4647.91	1/31/12	53.21	4594.70
RAY	803772	607083.416	3469195.163	4647.91	4/11/12	54.50	4593.41
RAY	803772	607083.416	3469195.163	4647.91	7/6/12	58.75	4589.16
RAY	803772	607083.416	3469195.163	4647.91	10/3/12	60.98	4586.93
RAY	803772	607083.416	3469195.163	4647.91	1/17/13	56.57	4591.34
RAY	803772	607083.416	3469195.163	4647.91	4/18/13	56.32	4591.59
RAY	803772	607083.416	3469195.163	4647.91	7/9/13	60.30	4587.61
RAY	803772	607083.416	3469195.163	4647.91	10/15/13	44.33	4603.58
RAY	803772	607083.416	3469195.163	4647.91	1/14/14	34.50	4613.41
RAY	803772	607083.416	3469195.163	4647.91	4/8/14	36.72	4611.19
RAY	803772	607083.416	3469195.163	4647.91	7/8/14	43.38	4604.53
RAY	803772	607083.416	3469195.163	4647.91	10/22/14	44.65	4603.26
RAY	803772	607083.416	3469195.163	4647.91	8/4/15	48.31	4599.60
RAY	803772	607083.416	3469195.163	4647.91	7/12/16	53.50	4594.41
RAY	803772	607083.416	3469195.163	4647.91	7/26/17	57.61	4590.30
RAY	803772	607083.416	3469195.163	4647.91	7/31/18	54.96	4592.95
RAY	803772	607083.416	3469195.163	4647.91	7/19/19	55.48	4592.43
RAY	803772	607083.416	3469195.163	4647.91	8/13/20	60.56	4587.35

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
RAY	803772	607083.416	3469195.163	4647.91	7/23/21	48.66	4599.25
RAY	803772	607083.416	3469195.163	4647.91	7/6/22	52.28	4595.63
RAY	803772	607083.416	3469195.163	4647.91	7/26/23	49.30	4598.61
RAY	803772	607083.416	3469195.163	4647.91	7/25/24	52.39	4595.52
ROGERS 596	573596	601001.972	3468490.803	4577.35	11/11/09	135.46	4441.89
ROGERS 596	573596	601001.972	3468490.803	4577.35	2/25/10	135.89	4441.46
ROGERS 596	573596	601001.972	3468490.803	4577.35	4/22/10	135.62	4441.73
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/16/10	136.63	4440.72
ROGERS 596	573596	601001.972	3468490.803	4577.35	10/19/10	136.61	4440.74
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/20/11	134.21	4443.14
ROGERS 596	573596	601001.972	3468490.803	4577.35	4/8/11	137.68	4439.67
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/14/11	138.09	4439.26
ROGERS 596	573596	601001.972	3468490.803	4577.35	10/12/11	138.09	4439.26
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/30/12	137.91	4439.44
ROGERS 596	573596	601001.972	3468490.803	4577.35	4/23/12	138.61	4438.74
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/13/12	139.65	4437.70
ROGERS 596	573596	601001.972	3468490.803	4577.35	10/10/12	139.55	4437.80
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/15/13	139.23	4438.12
ROGERS 596	573596	601001.972	3468490.803	4577.35	4/15/13	139.97	4437.38
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/15/13	139.94	4437.41
ROGERS 596	573596	601001.972	3468490.803	4577.35	10/16/13	140.50	4436.85
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/9/14	140.12	4437.23
ROGERS 596	573596	601001.972	3468490.803	4577.35	4/11/14	140.56	4436.79
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/18/14	140.64	4436.71
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/12/16	139.57	4437.78
ROGERS 596	573596	601001.972	3468490.803	4577.35	9/30/17	141.86	4435.49
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/18/18	141.88	4435.47
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/26/18	142.57	4434.78
ROGERS 596	573596	601001.972	3468490.803	4577.35	1/14/19	142.75	4434.60
ROGERS 596	573596	601001.972	3468490.803	4577.35	7/22/19	143.54	4433.81
ROGERS 596	573596	601001.9724	3468490.803	4577.35	1/22/20	143.75	4433.60
ROGERS 596	573596	601001.9724	3468490.803	4577.35	7/22/21	145.37	4431.98
ROGERS 596	573596	601001.9724	3468490.803	4577.35	2/1/22	145.57	4431.78
ROGERS 596	573596	601001.9724	3468490.803	4577.35	7/8/22	146.20	4431.15
ROGERS 596	573596	601001.9724	3468490.803	4577.35	1/13/23	146.50	4430.85
ROGERS 596	573596	601001.9724	3468490.803	4577.35	7/20/23	146.64	4430.71
ROGERS 596	573596	601001.9724	3468490.803	4577.35	1/15/24	147.51	4429.84
ROGERS 596	573596	601001.9724	3468490.803	4577.35	7/26/24	148.21	4429.14
ROGERS 803	641803	601003.2737	3468480.392	4576.16	9/30/17	138.83	4437.33
ROGERS 803	641803	601003.2737	3468480.392	4576.16	1/18/18	138.90	4437.26
ROGERS 803	641803	601003.2737	3468480.392	4576.16	7/26/18	139.62	4436.54
ROGERS 803	641803	601003.2737	3468480.392	4576.16	1/14/19	139.92	4436.24
ROGERS 803	641803	601003.2737	3468480.392	4576.16	7/22/19	140.39	4435.77
ROGERS 803	641803	601003.2737	3468480.392	4576.16	1/22/20	140.60	4435.56
ROGERS 803	641803	601003.2737	3468480.392	4576.16	8/11/20	140.82	4435.34
ROGERS 803	641803	601003.274	3468480.392	4576.16	1/15/24	DRY	DRY
ROGERS E	216018	600449.648	3467636.029	4590.66	7/17/08	149.65	4441.01
ROGERS E	216018	600449.648	3467636.029	4590.66	11/3/08	150.15	4440.51
ROGERS E	216018	600449.648	3467636.029	4590.66	2/10/09	149.02	4441.64
ROGERS E	216018	600449.648	3467636.029	4590.66	4/16/09	149.53	4441.13
ROGERS E	216018	600449.648	3467636.029	4590.66	7/13/09	150.31	4440.35
ROGERS E	216018	600449.648	3467636.029	4590.66	10/6/09	150.76	4439.90
ROGERS E	216018	600449.648	3467636.029	4590.66	1/25/10	150.64	4440.02
ROGERS E	216018	600449.648	3467636.029	4590.66	4/21/10	150.97	4439.69

APPENDIX C
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Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
ROGERS E	216018	600449.648	3467636.029	4590.66	8/25/10	151.15	4439.51
ROGERS E	216018	600449.648	3467636.029	4590.66	10/19/10	151.57	4439.09
ROGERS E	216018	600449.648	3467636.029	4590.66	10/13/11	153.79	4436.87
ROGERS E	216018	600449.648	3467636.029	4590.66	1/30/12	153.56	4437.10
ROGERS E	216018	600449.648	3467636.029	4590.66	4/10/12	154.13	4436.53
ROGERS E	216018	600449.648	3467636.029	4590.66	7/17/12	155.10	4435.56
ROGERS E	216018	600449.648	3467636.029	4590.66	1/17/13	154.56	4436.10
ROGERS E	216018	600449.648	3467636.029	4590.66	4/18/13	155.66	4435.00
ROGERS E	216018	600449.648	3467636.029	4590.66	7/17/13	155.71	4434.95
ROGERS E	216018	600449.648	3467636.029	4590.66	4/14/14	155.97	4434.69
ROGERS E	216018	600449.648	3467636.029	4590.66	7/30/15	155.91	4434.75
ROGERS E	216018	600449.648	3467636.029	4590.66	10/8/15	155.55	4435.11
ROGERS E	216018	600449.648	3467636.029	4590.66	7/26/17	157.46	4433.20
ROGERS E	216018	600449.648	3467636.029	4590.66	2/23/18	157.28	4433.38
ROGERS E	216018	600449.648	3467636.029	4590.66	7/13/18	158.53	4432.13
ROGERS E	216018	600449.648	3467636.029	4590.66	1/11/19	159.10	4431.56
ROGERS E	216018	600449.648	3467636.029	4590.66	7/12/19	159.66	4431.00
ROGERS E	216018	600449.648	3467636.029	4590.66	1/21/20	159.76	4430.90
ROGERS E	216018	600449.648	3467636.029	4590.66	8/7/20	160.14	4430.52
ROGERS E	216018	600449.648	3467636.029	4590.66	1/12/21	161.12	4429.54
ROGERS E	216018	600449.648	3467636.029	4590.66	7/14/21	161.68	4428.98
ROGERS E	216018	600449.648	3467636.029	4590.66	2/1/22	162.24	4428.42
ROGERS E	216018	600449.648	3467636.029	4590.66	7/11/22	162.58	4428.08
ROGERS E	216018	600449.648	3467636.029	4590.66	1/24/23	162.73	4427.93
ROGERS E	216018	600449.648	3467636.029	4590.66	7/21/23	163.00	4427.66
ROGERS E	216018	600449.648	3467636.029	4590.66	1/18/24	164.09	4426.57
RUIZ	531770	602851.840	3471407.239	4735.18	2/5/08	293.29	4441.89
RUIZ	531770	602851.840	3471407.239	4735.18	5/15/08	293.57	4441.61
RUIZ	531770	602851.840	3471407.239	4735.18	7/30/08	293.86	4441.32
RUIZ	531770	602851.840	3471407.239	4735.18	10/20/08	294.18	4441.00
RUIZ	531770	602851.840	3471407.239	4735.18	2/12/09	294.62	4440.56
RUIZ	531770	602851.840	3471407.239	4735.18	4/21/09	294.66	4440.52
RUIZ	531770	602851.840	3471407.239	4735.18	8/3/09	294.98	4440.20
RUIZ	531770	602851.840	3471407.239	4735.18	10/28/09	295.33	4439.85
RUIZ	531770	602851.840	3471407.239	4735.18	2/1/10	295.70	4439.48
RUIZ	531770	602851.840	3471407.239	4735.18	4/26/10	295.96	4439.22
RUIZ	531770	602851.840	3471407.239	4735.18	4/8/11	297.20	4437.98
RUIZ	531770	602851.840	3471407.239	4735.18	4/13/12	298.47	4436.71
RUIZ	531770	602851.840	3471407.239	4735.18	1/11/13	299.39	4435.79
RUIZ	531770	602851.840	3471407.239	4735.18	4/11/13	299.72	4435.46
RUIZ	531770	602851.840	3471407.239	4735.18	7/25/13	300.06	4435.12
RUIZ	531770	602851.840	3471407.239	4735.18	10/17/13	300.07	4435.11
RUIZ	531770	602851.840	3471407.239	4735.18	1/8/14	300.19	4434.99
RUIZ	531770	602851.840	3471407.239	4735.18	4/15/14	300.31	4434.87
RUIZ	531770	602851.840	3471407.239	4735.18	10/21/14	300.38	4434.80
RUIZ	531770	602851.840	3471407.239	4735.18	1/27/15	299.76	4435.42
RUIZ	531770	602851.840	3471407.239	4735.18	7/30/15	299.74	4435.44
RUIZ	531770	602851.840	3471407.239	4735.18	1/12/16	300.20	4434.98
RUIZ	531770	602851.840	3471407.239	4735.18	7/24/18	301.45	4433.73
RUIZ	531770	602851.840	3471407.239	4735.18	1/15/19	301.74	4433.44
RUIZ	531770	602851.840	3471407.239	4735.18	7/10/19	302.08	4433.10
RUIZ 146	232146	602871.368	3471442.508	4731.23	8/12/20	301.12	4430.11
RUIZ 146	232146	602871.368	3471442.508	4731.23	1/12/21	301.48	4429.75
RUIZ 146	232146	602871.368	3471442.508	4731.23	7/21/21	301.91	4429.32

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
RUIZ 146	232146	602871.368	3471442.508	4731.23	2/1/22	302.53	4428.70
RUIZ 146	232146	602871.368	3471442.508	4731.23	7/12/22	303.12	4428.11
RUIZ 146	232146	602871.368	3471442.508	4731.23	1/13/23	303.68	4427.55
RUIZ 146	232146	602871.368	3471442.508	4731.23	7/21/23	304.21	4427.02
RUIZ 146	232146	602871.368	3471442.508	4731.23	1/16/24	304.73	4426.50
RUIZ 146	232146	602871.368	3471442.508	4731.23	8/6/24	305.24	4425.99
SCHWARTZ	210865	600811.525	3468268.094	4564.49	2/8/08	121.80	4442.69
SCHWARTZ	210865	600811.525	3468268.094	4564.49	5/19/08	123.49	4441.00
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/29/08	122.64	4441.85
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/22/08	123.39	4441.10
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/29/09	122.87	4441.62
SCHWARTZ	210865	600811.525	3468268.094	4564.49	4/17/09	123.53	4440.96
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/10/09	124.15	4440.34
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/6/09	124.55	4439.94
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/22/10	124.32	4440.17
SCHWARTZ	210865	600811.525	3468268.094	4564.49	4/21/10	124.65	4439.84
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/21/10	125.80	4438.69
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/19/10	126.30	4438.19
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/17/11	125.35	4439.14
SCHWARTZ	210865	600811.525	3468268.094	4564.49	4/11/11	127.50	4436.99
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/18/11	127.67	4436.82
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/12/11	127.51	4436.98
SCHWARTZ	210865	600811.525	3468268.094	4564.49	2/6/12	127.34	4437.15
SCHWARTZ	210865	600811.525	3468268.094	4564.49	4/10/12	127.78	4436.71
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/16/12	128.84	4435.65
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/17/12	128.98	4435.51
SCHWARTZ	210865	600811.525	3468268.094	4564.49	3/13/13	128.81	4435.68
SCHWARTZ	210865	600811.525	3468268.094	4564.49	5/14/13	129.60	4434.89
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/15/13	129.05	4435.44
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/14/13	130.15	4434.34
SCHWARTZ	210865	600811.525	3468268.094	4564.49	4/9/14	129.77	4434.72
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/18/14	129.81	4434.68
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/22/14	129.66	4434.83
SCHWARTZ	210865	600811.525	3468268.094	4564.49	2/3/15	128.66	4435.83
SCHWARTZ	210865	600811.525	3468268.094	4564.49	5/18/15	129.30	4435.19
SCHWARTZ	210865	600811.525	3468268.094	4564.49	8/4/15	129.51	4434.98
SCHWARTZ	210865	600811.525	3468268.094	4564.49	10/8/15	129.34	4435.15
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/14/16	128.32	4436.17
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/27/16	130.01	4434.48
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/24/17	129.86	4434.63
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/11/17	131.21	4433.28
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/9/18	130.46	4434.03
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/11/18	131.96	4432.53
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/9/19	131.50	4432.99
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/22/20	132.54	4431.95
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/22/20	132.76	4431.73
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/8/21	133.62	4430.87
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/20/21	134.17	4430.32
SCHWARTZ	210865	600811.525	3468268.094	4564.49	2/1/22	134.83	4429.66
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/13/22	135.16	4429.33
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/13/23	135.33	4429.16
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/20/23	135.60	4428.89
SCHWARTZ	210865	600811.525	3468268.094	4564.49	1/16/24	136.54	4427.95
SCHWARTZ	210865	600811.525	3468268.094	4564.49	7/25/24	137.13	4427.36

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
STEPHENS	808560	606981.7737	3469069.337	4651.22	5/13/08	44.94	4606.28
STEPHENS	808560	606981.7737	3469069.337	4651.22	8/5/08	46.61	4604.61
STEPHENS	808560	606981.7737	3469069.337	4651.22	10/16/08	46.60	4604.62
STEPHENS	808560	606981.7737	3469069.337	4651.22	1/21/09	47.19	4604.03
STEPHENS	808560	606981.7737	3469069.337	4651.22	4/8/09	48.45	4602.77
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/7/09	49.41	4601.81
STEPHENS	808560	606981.7737	3469069.337	4651.22	10/7/09	50.33	4600.89
STEPHENS	808560	606981.7737	3469069.337	4651.22	1/26/10	51.13	4600.09
STEPHENS	808560	606981.7737	3469069.337	4651.22	4/20/10	51.24	4599.98
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/14/10	51.91	4599.31
STEPHENS	808560	606981.7737	3469069.337	4651.22	1/18/11	52.98	4598.24
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/11/11	54.44	4596.78
STEPHENS	808560	606981.7737	3469069.337	4651.22	1/31/12	55.65	4595.57
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/9/12	10.69	4640.53
STEPHENS	808560	606981.7737	3469069.337	4651.22	1/18/13	10.50	4640.72
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/10/13	58.16	4593.06
STEPHENS	808560	606981.7737	3469069.337	4651.22	1/14/14	45.51	4605.71
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/8/14	45.39	4605.83
STEPHENS	808560	606981.774	3469069.337	4651.22	1/26/15	47.91	4603.31
STEPHENS	808560	606981.774	3469069.337	4651.22	7/24/15	49.71	4601.51
STEPHENS	808560	606981.774	3469069.337	4651.22	1/11/16	50.88	4600.34
STEPHENS	808560	606981.774	3469069.337	4651.22	7/12/16	52.64	4598.58
STEPHENS	808560	606981.774	3469069.337	4651.22	1/17/17	53.09	4598.13
STEPHENS	808560	606981.774	3469069.337	4651.22	7/14/17	54.15	4597.07
STEPHENS	808560	606981.774	3469069.337	4651.22	1/15/18	55.74	4595.48
STEPHENS	808560	606981.774	3469069.337	4651.22	7/30/18	56.02	4595.20
STEPHENS	808560	606981.774	3469069.337	4651.22	1/15/19	55.85	4595.37
STEPHENS	808560	606981.774	3469069.337	4651.22	7/11/19	56.20	4595.02
STEPHENS	808560	606981.774	3469069.337	4651.22	1/14/20	54.02	4597.20
STEPHENS	808560	606981.7737	3469069.337	4651.22	7/20/20	53.58	4597.64
STEPHENS	808560	606981.774	3469069.337	4651.22	1/13/21	54.94	4596.28
STEPHENS	808560	606981.774	3469069.337	4651.22	7/21/21	54.09	4597.13
STEPHENS	808560	606981.774	3469069.337	4651.22	1/28/22	54.90	4596.32
STEPHENS	808560	606981.774	3469069.337	4651.22	7/6/22	55.80	4595.42
STEPHENS	808560	606981.774	3469069.337	4651.22	1/11/23	53.33	4597.89
STEPHENS	808560	606981.774	3469069.337	4651.22	7/25/23	53.37	4597.85
STEPHENS	808560	606981.774	3469069.337	4651.22	1/17/24	54.82	4596.40
STEPHENS	808560	606981.774	3469069.337	4651.22	7/30/24	57.96	4593.26
SUNBELT	201531	605998.246	3471735.171	4806.52	2/6/08	352.10	4454.42
SUNBELT	201531	605998.246	3471735.171	4806.52	5/15/08	358.97	4447.55
SUNBELT	201531	605998.246	3471735.171	4806.52	8/5/08	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	10/16/08	347.00	4459.52
SUNBELT	201531	605998.246	3471735.171	4806.52	1/21/09	344.78	4461.74
SUNBELT	201531	605998.246	3471735.171	4806.52	4/10/09	349.64	4456.88
SUNBELT	201531	605998.246	3471735.171	4806.52	7/8/09	356.99	4449.53
SUNBELT	201531	605998.246	3471735.171	4806.52	10/5/09	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	1/21/10	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	4/19/10	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	7/12/10	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	1/19/11	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	8/25/11	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	2/3/12	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	7/9/12	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	9/13/12	Dry	<4426

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
SUNBELT	201531	605998.246	3471735.171	4806.52	1/17/13	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	7/9/13	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	1/10/14	Dry	<4426
SUNBELT	201531	605998.246	3471735.171	4806.52	7/8/14	Dry	<4426
TERRY 101	234101	599642.742	3468084.786	4562.55	9/3/21	153.21	4409.34
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	8/9/13	167.86	4429.76
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	10/10/13	167.68	4429.94
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	1/16/14	167.19	4430.43
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	4/14/14	166.98	4430.64
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	7/21/14	167.78	4429.84
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	10/22/14	167.56	4430.06
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	2/2/15	166.56	4431.06
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	5/19/15	166.51	4431.11
THOMPSON 151	612151	599543.5606	3467387.294	4597.62	8/3/15	167.09	4430.53
THOMPSON 341	218341	599532.241	3467396.849	4596.73	7/28/17	168.34	4428.39
THOMPSON 341	218341	599532.241	3467396.849	4596.73	1/16/18	168.22	4428.51
THOMPSON 341	218341	599532.241	3467396.849	4596.73	7/26/18	169.23	4427.50
THOMPSON 341	218341	599532.241	3467396.849	4596.73	1/11/19	169.81	4426.92
THOMPSON 341	218341	599532.241	3467396.849	4596.73	7/10/19	170.29	4426.44
THOMPSON 341	218341	599532.241	3467396.849	4596.73	1/15/20	170.62	4426.11
THOMPSON 341	218341	599532.241	3467396.849	4596.73	8/12/20	171.37	4425.36
THOMPSON 341	218341	599532.241	3467396.849	4596.73	1/8/21	172.08	4424.65
THOMPSON 341	218341	599532.241	3467396.849	4596.73	7/29/21	172.82	4423.91
THOMPSON 341	218341	599532.241	3467396.849	4596.73	1/31/22	173.19	4423.54
THOMPSON 341	218341	599532.241	3467396.849	4596.73	7/7/22	173.44	4423.29
THOMPSON 341	218341	599532.241	3467396.849	4596.73	8/23/23	174.49	4422.24
THOMPSON 341	218341	599532.241	3467396.849	4596.73	8/15/24	176.05	4420.68
TM-02A	522574	604152.059	3472008.794	4808.43	3/4/08	346.62	4461.81
TM-02A	522574	604152.059	3472008.794	4808.43	5/23/08	346.16	4462.27
TM-02A	522574	604152.059	3472008.794	4808.43	8/15/08	353.91	4454.52
TM-02A	522574	604152.059	3472008.794	4808.43	10/30/08	349.45	4458.98
TM-02A	522574	604152.059	3472008.794	4808.43	2/24/09	348.64	4459.79
TM-02A	522574	604152.059	3472008.794	4808.43	5/6/09	349.38	4459.05
TM-02A	522574	604152.059	3472008.794	4808.43	8/12/09	349.13	4459.30
TM-02A	522574	604152.059	3472008.794	4808.43	11/4/09	348.97	4459.46
TM-02A	522574	604152.059	3472008.794	4808.43	3/10/10	348.19	4460.24
TM-02A	522574	604152.059	3472008.794	4808.43	4/6/10	353.86	4454.57
TM-02A	522574	604152.059	3472008.794	4808.43	7/6/10	349.20	4459.23
TM-02A	522574	604152.059	3472008.794	4808.43	2/10/11	347.60	4460.83
TM-02A	522574	604152.059	3472008.794	4808.43	7/13/11	348.14	4460.29
TM-02A	522574	604152.059	3472008.794	4808.43	2/2/12	346.94	4461.49
TM-02A	522574	604152.059	3472008.794	4808.43	8/13/12	344.53	4463.90
TM-02A	522574	604152.059	3472008.794	4808.43	2/14/13	343.50	4464.93
TM-02A	522574	604152.059	3472008.794	4808.43	8/27/13	343.84	4464.59
TM-02A	522574	604152.059	3472008.794	4808.43	2/18/14	341.47	4466.96
TM-02A	522574	604152.059	3472008.794	4808.43	8/12/14	338.50	4469.93
TM-02A	522574	604152.059	3472008.794	4808.43	2/5/15	336.02	4472.41
TM-02A	522574	604152.059	3472008.794	4808.43	9/14/15	334.23	4474.20
TM-02A	522574	604152.059	3472008.794	4808.43	3/16/16	333.52	4474.91
TM-02A	522574	604152.059	3472008.794	4808.43	8/17/16	333.90	4474.53
TM-02A	522574	604152.059	3472008.794	4808.43	3/7/17	335.30	4473.13
TM-02A	522574	604152.059	3472008.794	4808.43	8/1/17	336.32	4472.11
TM-02A	522574	604152.059	3472008.794	4808.43	2/1/18	337.14	4471.29
TM-02A	522574	604152.059	3472008.794	4808.43	7/26/18	337.17	4471.26

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
TM-02A	522574	604152.059	3472008.794	4808.43	2/11/19	337.53	4470.90
TM-02A	522574	604152.059	3472008.794	4808.43	8/5/19	338.84	4469.59
TM-02A	522574	604152.059	3472008.794	4808.43	2/20/20	338.42	4470.01
TM-02A	522574	604152.059	3472008.794	4808.43	7/20/20	337.15	4471.28
TM-02A	522574	604152.059	3472008.794	4808.43	3/17/21	336.28	4472.15
TM-02A	522574	604152.059	3472008.794	4808.43	7/13/21	336.80	4471.63
TM-02A	522574	604152.059	3472008.794	4808.43	3/10/22	338.70	4469.73
TM-02A	522574	604152.059	3472008.794	4808.43	7/26/22	339.34	4469.09
TM-02A	522574	604152.059	3472008.794	4808.43	3/13/23	340.53	4467.90
TM-02A	522574	604152.059	3472008.794	4808.43	8/21/23	341.63	4466.80
TM-02A	522574	604152.059	3472008.794	4808.43	3/19/24	342.52	4465.91
TM-02A	522574	604152.059	3472008.794	4808.43	9/9/24	343.70	4464.73
TM-03	522575	606366.130	3473711.046	4897.85	3/12/08	127.14	4770.71
TM-03	522575	606366.130	3473711.046	4897.85	5/20/08	127.40	4770.45
TM-03	522575	606366.13	3473711.046	4897.85	8/6/08	128.02	4769.83
TM-03	522575	606366.13	3473711.046	4897.85	11/12/08	128.00	4769.85
TM-03	522575	606366.13	3473711.046	4897.85	2/26/09	126.94	4770.91
TM-03	522575	606366.13	3473711.046	4897.85	5/13/09	113.86	4783.99
TM-03	522575	606366.13	3473711.046	4897.85	8/18/09	128.80	4769.05
TM-03	522575	606366.13	3473711.046	4897.85	11/10/09	125.38	4772.47
TM-03	522575	606366.13	3473711.046	4897.85	3/2/10	128.02	4769.83
TM-03	522575	606366.13	3473711.046	4897.85	4/14/10	130.56	4767.29
TM-03	522575	606366.13	3473711.046	4897.85	7/7/10	131.25	4766.60
TM-03	522575	606366.13	3473711.046	4897.85	2/1/12	135.04	4762.81
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	2/26/08	158.78	4549.10
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	5/20/08	158.76	4549.12
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	8/4/08	158.80	4549.08
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	10/29/08	158.85	4549.03
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	2/16/09	159.28	4548.60
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	5/13/09	158.81	4549.07
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	8/18/09	158.91	4548.97
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	11/12/09	158.96	4548.92
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/8/10	158.99	4548.89
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	4/14/10	159.02	4548.86
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/2/10	159.13	4548.75
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/21/11	159.88	4548.00
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/9/12	161.40	4546.48
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	2/14/13	161.05	4546.83
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	8/19/13	161.30	4546.58
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/21/14	162.60	4545.28
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	2/5/15	162.36	4545.52
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	9/10/15	162.94	4544.94
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/16/16	162.14	4545.74
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	9/21/16	163.08	4544.80
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/7/17	162.83	4545.05
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/26/17	163.47	4544.41
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	2/5/18	163.46	4544.42
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/16/18	163.96	4543.92
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	1/29/19	162.32	4545.56
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/31/19	164.23	4543.65
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	2/20/20	163.15	4544.73
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	8/10/20	166.27	4541.61
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/15/21	164.10	4543.78
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/21/21	164.61	4543.27

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/10/22	163.86	4544.02
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	9/7/22	163.16	4544.72
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/14/23	163.44	4544.44
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	8/7/23	164.63	4543.25
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	3/19/24	163.51	4544.37
TM-06 MILLER	522695	606055.975	3468376.658	4707.88	7/11/24	164.30	4543.58
TM-07	522576	603007.461	3471919.441	4769.20	3/17/21	338.20	4431.00
TM-07	522576	603007.461	3471919.441	4769.20	8/16/21	338.58	4430.62
TM-07	522576	603007.461	3471919.441	4769.20	2/1/22	338.91	4430.29
TM-07	522576	603007.461	3471919.441	4769.20	8/1/22	339.74	4429.46
TM-07	522576	603007.461	3471919.441	4769.20	3/6/23	340.58	4428.62
TM-07	522576	603007.461	3471919.441	4769.20	9/6/23	341.08	4428.12
TM-07	522576	603007.461	3471919.441	4769.20	3/12/24	341.50	4427.70
TM-07	522576	603007.461	3471919.441	4769.20	8/28/24	341.88	4427.32
TM-10 USBP	522696	601586.268	3471816.397	4741.18	3/15/12	279.30	4461.88
TM-10 USBP	522696	601586.268	3471816.397	4741.18	4/24/12	279.03	4462.15
TM-10 USBP	522696	601586.268	3471816.397	4741.18	9/13/12	278.30	4462.88
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	10/19/12	277.45	4463.73
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	3/7/13	276.55	4464.63
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	4/17/13	276.42	4464.76
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/23/13	275.99	4465.19
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	11/6/13	254.20	4486.98
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/15/14	262.00	4479.18
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	5/15/14	269.39	4471.79
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/15/14	271.03	4470.15
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	10/16/14	235.11	4506.07
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/28/15	252.47	4488.71
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/24/15	264.53	4476.65
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	2/2/16	262.66	4478.52
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/13/16	269.35	4471.83
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/27/17	259.58	4481.60
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/17/17	267.41	4473.77
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/8/18	255.19	4485.99
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/9/18	266.18	4475.00
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/8/19	247.36	4493.82
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	7/16/19	259.23	4481.95
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/6/20	239.32	4501.86
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	8/3/20	256.07	4485.11
TM-10 USBP	522696	601586.2685	3471816.397	4741.18	1/5/21	261.10	4480.08
TM-10 USBP	522696	601586.268	3471816.397	4741.18	7/12/21	267.17	4474.01
TM-10 USBP	522696	601586.268	3471816.397	4741.18	1/24/22	258.46	4482.72
TM-10 USBP	522696	601586.268	3471816.397	4741.18	7/19/22	267.02	4474.16
TM-10 USBP	522696	601586.268	3471816.397	4741.18	2/1/23	252.90	4488.28
TM-10 USBP	522696	601586.268	3471816.397	4741.18	8/3/23	263.80	4477.38
TM-10 USBP	522696	601586.268	3471816.397	4741.18	1/26/24	257.16	4484.02
TM-10 USBP	522696	601586.268	3471816.397	4741.18	8/9/24	253.53	4487.65
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	3/20/17	300.54	4428.71
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	8/1/17	300.76	4428.49
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	7/18/18	301.32	4427.93
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	8/19/19	301.92	4427.33
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	8/24/20	302.43	4426.82
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	7/12/21	303.14	4426.11
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	7/25/22	303.95	4425.30
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	8/3/23	304.53	4424.72

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
TM-15 MILLER	522699	599617.331	3471427.504	4729.25	7/31/24	305.49	4423.76
TM-16	522578	605588.075	3469842.199	4717.71	3/5/08	81.00	4636.71
TM-16	522578	605588.075	3469842.199	4717.71	5/22/08	81.24	4636.47
TM-16	522578	605588.075	3469842.199	4717.71	8/6/08	81.65	4636.06
TM-16	522578	605588.075	3469842.199	4717.71	11/5/08	81.75	4635.96
TM-16	522578	605588.075	3469842.199	4717.71	2/26/09	81.88	4635.83
TM-16	522578	605588.075	3469842.199	4717.71	5/13/09	82.01	4635.70
TM-16	522578	605588.075	3469842.199	4717.71	8/19/09	82.37	4635.34
TM-16	522578	605588.075	3469842.199	4717.71	11/10/09	82.83	4634.88
TM-16	522578	605588.075	3469842.199	4717.71	3/2/10	83.09	4634.62
TM-16	522578	605588.075	3469842.199	4717.71	4/14/10	83.22	4634.49
TM-16	522578	605588.075	3469842.199	4717.71	7/2/10	83.51	4634.20
TM-16	522578	605588.075	3469842.199	4717.71	7/14/11	80.41	4637.30
TM-16	522578	605588.075	3469842.199	4717.71	7/9/12	72.55	4645.16
TM-16	522578	605588.075	3469842.199	4717.71	8/15/13	61.42	4656.29
TM-16	522578	605588.075	3469842.199	4717.71	8/4/14	62.55	4655.16
TM-16	522578	605588.075	3469842.199	4717.71	2/5/15	58.80	4658.91
TM-16	522578	605588.075	3469842.199	4717.71	9/9/15	60.06	4657.65
TM-16	522578	605588.075	3469842.199	4717.71	3/16/16	60.43	4657.28
TM-16	522578	605588.075	3469842.199	4717.71	8/25/16	59.24	4658.47
TM-16	522578	605588.075	3469842.199	4717.71	3/7/17	61.08	4656.63
TM-16	522578	605588.075	3469842.199	4717.71	7/12/17	62.59	4655.12
TM-16	522578	605588.075	3469842.199	4717.71	2/1/18	60.18	4657.53
TM-16	522578	605588.075	3469842.199	4717.71	8/7/18	62.44	4655.27
TM-16	522578	605588.075	3469842.199	4717.71	2/11/19	58.90	4658.81
TM-16	522578	605588.075	3469842.199	4717.71	7/30/19	61.35	4656.36
TM-16	522578	605588.075	3469842.199	4717.71	2/20/20	58.16	4659.55
TM-16	522578	605588.075	3469842.199	4717.71	7/20/20	60.72	4656.99
TM-16	522578	605588.075	3469842.199	4717.71	2/2/21	61.37	4656.34
TM-16	522578	605588.075	3469842.199	4717.71	7/15/21	63.20	4654.51
TM-16	522578	605588.075	3469842.199	4717.71	3/10/22	61.19	4656.52
TM-16	522578	605588.075	3469842.199	4717.71	7/26/22	60.99	4656.72
TM-16	522578	605588.075	3469842.199	4717.71	3/13/23	60.15	4657.56
TM-16	522578	605588.075	3469842.199	4717.71	8/7/23	61.93	4655.78
TM-16	522578	605588.075	3469842.199	4717.71	3/19/24	61.19	4656.52
TM-16	522578	605588.075	3469842.199	4717.71	7/11/24	62.56	4655.15
TM-42	562554	603698.271	3469104.903	4666.67	3/5/08	211.04	4455.63
TM-42	562554	603698.271	3469104.903	4666.67	5/22/08	210.98	4455.69
TM-42	562554	603698.271	3469104.903	4666.67	8/6/08	211.55	4455.12
TM-42	562554	603698.271	3469104.903	4666.67	11/6/08	207.05	4459.62
TM-42	562554	603698.271	3469104.903	4666.67	2/18/09	212.31	4454.36
TM-42	562554	603698.271	3469104.903	4666.67	5/7/09	212.37	4454.30
TM-42	562554	603698.271	3469104.903	4666.67	8/18/09	212.77	4453.90
TM-42	562554	603698.271	3469104.903	4666.67	11/3/09	213.05	4453.62
TM-42	562554	603698.271	3469104.903	4666.67	2/24/10	213.36	4453.31
TM-42	562554	603698.271	3469104.903	4666.67	4/19/10	213.51	4453.16
TM-42	562554	603698.271	3469104.903	4666.67	7/2/10	213.52	4453.15
TM-42	562554	603698.271	3469104.903	4666.67	7/12/11	214.62	4452.05
TM-42	562554	603698.271	3469104.903	4666.67	7/11/12	216.10	4450.57
TM-42	562554	603698.271	3469104.903	4666.67	2/12/13	216.55	4450.12
TM-42	562554	603698.271	3469104.903	4666.67	8/28/13	217.38	4449.29
TM-42	562554	603698.271	3469104.903	4666.67	7/21/14	218.33	4448.34
TM-42	562554	603698.271	3469104.903	4666.67	2/4/15	218.87	4447.80
TM-42	562554	603698.271	3469104.903	4666.67	9/10/15	219.31	4447.36

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
TM-42	562554	603698.271	3469104.903	4666.67	3/16/16	219.55	4447.12
TM-42	562554	603698.271	3469104.903	4666.67	8/18/16	219.89	4446.78
TM-42	562554	603698.271	3469104.903	4666.67	3/7/17	220.35	4446.32
TM-42	562554	603698.271	3469104.903	4666.67	7/26/17	220.54	4446.13
TM-42	562554	603698.271	3469104.903	4666.67	2/5/18	220.81	4445.86
TM-42	562554	603698.271	3469104.903	4666.67	8/6/18	221.12	4445.55
TM-42	562554	603698.271	3469104.903	4666.67	1/29/19	221.36	4445.31
TM-42	562554	603698.271	3469104.903	4666.67	8/7/19	221.71	4444.96
TM-42	562554	603698.271	3469104.903	4666.67	2/20/20	222.15	4444.52
TM-42	562554	603698.271	3469104.903	4666.67	8/10/20	222.31	4444.36
TM-42	562554	603698.271	3469104.903	4666.67	3/15/21	222.60	4444.07
TM-42	562554	603698.271	3469104.903	4666.67	7/21/21	222.82	4443.85
TM-42	562554	603698.271	3469104.903	4666.67	3/10/22	223.20	4443.47
TM-42	562554	603698.271	3469104.903	4666.67	9/7/22	223.93	4442.74
TM-42	562554	603698.271	3469104.903	4666.67	3/14/23	224.26	4442.41
TM-42	562554	603698.271	3469104.903	4666.67	8/29/23	224.46	4442.21
TM-42	562554	603698.271	3469104.903	4666.67	3/19/24	224.81	4441.86
TM-42	562554	603698.271	3469104.903	4666.67	7/11/24	225.20	4441.47
TVI 236	802236	600552.215	3467978.431	4561.98	5/7/08	123.30	4438.68
TVI 236	802236	600552.215	3467978.431	4561.98	7/15/08	121.55	4440.43
TVI 236	802236	600552.215	3467978.431	4561.98	10/15/08	122.35	4439.63
TVI 236	802236	600552.215	3467978.431	4561.98	2/11/09	121.28	4440.70
TVI 236	802236	600552.215	3467978.431	4561.98	4/17/09	122.73	4439.25
TVI 236	802236	600552.215	3467978.431	4561.98	7/21/09	123.96	4438.02
TVI 236	802236	600552.215	3467978.431	4561.98	10/19/09	123.88	4438.10
TVI 236	802236	600552.215	3467978.431	4561.98	2/2/10	122.26	4439.72
TVI 236	802236	600552.215	3467978.431	4561.98	4/23/10	122.70	4439.28
TVI 236	802236	600552.215	3467978.431	4561.98	7/15/10	125.08	4436.90
TVI 236	802236	600552.215	3467978.431	4561.98	7/15/11	127.23	4434.75
TVI 236	802236	600552.215	3467978.431	4561.98	7/16/12	127.81	4434.17
TVI 236	802236	600552.215	3467978.431	4561.98	10/9/12	128.45	4433.53
TVI 236	802236	600552.215	3467978.431	4561.98	7/18/13	127.38	4434.60
TVI 236	802236	600552.215	3467978.431	4561.98	7/16/14	129.24	4432.74
TVI 236	802236	600552.215	3467978.431	4561.98	2/2/15	126.81	4435.17
TVI 236	802236	600552.215	3467978.431	4561.98	5/19/15	128.38	4433.60
TVI 236	802236	600552.215	3467978.431	4561.98	7/30/15	128.31	4433.67
TVI 236	802236	600552.215	3467978.431	4561.98	10/7/15	127.26	4434.72
TVI 236	802236	600552.215	3467978.431	4561.98	1/12/16	126.49	4435.49
TVI 236	802236	600552.215	3467978.431	4561.98	7/20/16	128.90	4433.08
TVI 236	802236	600552.215	3467978.431	4561.98	9/26/16	128.26	4433.72
TVI 236	802236	600552.215	3467978.431	4561.98	1/27/17	128.57	4433.41
TVI 236	802236	600552.215	3467978.431	4561.98	7/31/17	128.59	4433.39
TVI 236	802236	600552.215	3467978.431	4561.98	1/17/18	129.66	4432.32
TVI 236	802236	600552.215	3467978.431	4561.98	7/27/18	130.16	4431.82
TVI 236	802236	600552.215	3467978.431	4561.98	1/16/19	130.67	4431.31
TVI 236	802236	600552.215	3467978.431	4561.98	7/24/19	130.87	4431.11
TVI 236	802236	600552.215	3467978.431	4561.98	1/21/20	130.92	4431.06
TVI 236	802236	600552.215	3467978.431	4561.98	8/11/20	131.43	4430.55
TVI 236	802236	600552.215	3467978.431	4561.98	1/12/21	132.30	4429.68
TVI 236	802236	600552.215	3467978.431	4561.98	7/21/21	132.88	4429.10
TVI 236	802236	600552.215	3467978.431	4561.98	2/1/22	133.47	4428.51
TVI 236	802236	600552.215	3467978.431	4561.98	8/3/22	133.75	4428.23
TVI 236	802236	600552.215	3467978.431	4561.98	2/16/23	133.93	4428.05
TVI 236	802236	600552.215	3467978.431	4561.98	8/8/23	133.42	4428.56

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
TVI 236	802236	600552.215	3467978.431	4561.98	2/21/24	135.26	4426.72
TVI 236	802236	600552.215	3467978.431	4561.98	8/16/24	135.84	4426.14
TVI 713	567713	600729.095	3468412.946	4567.22	5/7/08	127.10	4440.12
TVI 713	567713	600729.095	3468412.946	4567.22	7/14/08	126.30	4440.92
TVI 713	567713	600729.095	3468412.946	4567.22	10/15/08	130.00	4437.22
TVI 713	567713	600729.095	3468412.946	4567.22	2/11/09	149.87	4417.35
TVI 713	567713	600729.095	3468412.946	4567.22	4/17/09	126.73	4440.49
TVI 713	567713	600729.095	3468412.946	4567.22	7/21/09	127.36	4439.86
TVI 713	567713	600729.095	3468412.946	4567.22	10/19/09	127.79	4439.43
TVI 713	567713	600729.095	3468412.946	4567.22	2/2/10	126.71	4440.51
TVI 713	567713	600729.095	3468412.946	4567.22	4/23/10	127.53	4439.69
TVI 713	567713	600729.095	3468412.946	4567.22	7/15/10	129.14	4438.08
TVI 713	567713	600729.095	3468412.946	4567.22	10/20/10	130.84	4436.38
TVI 713	567713	600729.095	3468412.946	4567.22	1/20/11	134.36	4432.86
TVI 713	567713	600729.095	3468412.946	4567.22	4/11/11	135.72	4431.50
TVI 713	567713	600729.095	3468412.946	4567.22	7/15/11	131.61	4435.61
TVI 713	567713	600729.095	3468412.946	4567.22	10/12/11	130.33	4436.89
TVI 713	567713	600729.095	3468412.946	4567.22	2/3/12	130.01	4437.21
TVI 713	567713	600729.095	3468412.946	4567.22	4/25/12	131.33	4435.89
TVI 713	567713	600729.095	3468412.946	4567.22	7/16/12	131.97	4435.25
TVI 713	567713	600729.095	3468412.946	4567.22	10/9/12	132.16	4435.06
TVI 713	567713	600729.095	3468412.946	4567.22	2/6/13	131.14	4436.08
TVI 713	567713	600729.095	3468412.946	4567.22	4/10/13	132.08	4435.14
TVI 713	567713	600729.095	3468412.946	4567.22	7/18/13	131.72	4435.50
TVI 713	567713	600729.095	3468412.946	4567.22	10/8/13	133.10	4434.12
TVI 713	567713	600729.095	3468412.946	4567.22	1/9/14	132.37	4434.85
TVI 713	567713	600729.095	3468412.946	4567.22	4/9/14	132.93	4434.29
TVI 713	567713	600729.095	3468412.946	4567.22	7/16/14	132.57	4434.65
TVI 713	567713	600729.095	3468412.946	4567.22	10/9/14	132.29	4434.93
TVI 713	567713	600729.095	3468412.946	4567.22	1/29/15	132.01	4435.21
TVI 713	567713	600729.095	3468412.946	4567.22	5/18/15	132.34	4434.88
TVI 713	567713	600729.095	3468412.946	4567.22	7/30/15	132.71	4434.51
TVI 713	567713	600729.095	3468412.946	4567.22	10/7/15	132.00	4435.22
TVI 713	567713	600729.095	3468412.946	4567.22	1/12/16	131.34	4435.88
TVI 713	567713	600729.095	3468412.946	4567.22	7/14/16	133.11	4434.11
TVI 713	567713	600729.095	3468412.946	4567.22	1/27/17	132.88	4434.34
TVI 713	567713	600729.095	3468412.946	4567.22	7/13/17	134.08	4433.14
TVI 713	567713	600729.095	3468412.946	4567.22	1/10/18	134.24	4432.98
TVI 713	567713	600729.095	3468412.946	4567.22	7/12/18	134.83	4432.39
TVI 713	567713	600729.095	3468412.946	4567.22	1/10/19	134.87	4432.35
TVI 713	567713	600729.095	3468412.946	4567.22	7/18/19	135.59	4431.63
TVI 713	567713	600729.095	3468412.946	4567.22	3/23/20	135.43	4431.79
TVI 713	567713	600729.095	3468412.946	4567.22	8/6/20	135.81	4431.41
TVI 713	567713	600729.095	3468412.946	4567.22	1/7/21	136.57	4430.65
TVI 713	567713	600729.095	3468412.946	4567.22	7/15/21	137.15	4430.07
TVI 713	567713	600729.095	3468412.946	4567.22	1/26/22	137.84	4429.38
TVI 713	567713	600729.095	3468412.946	4567.22	8/1/22	138.07	4429.15
TVI 713	567713	600729.095	3468412.946	4567.22	2/15/23	138.38	4428.84
TVI 713	567713	600729.095	3468412.946	4567.22	8/7/23	138.64	4428.58
TVI 713	567713	600729.095	3468412.946	4567.22	2/7/24	139.61	4427.61
TVI 713	567713	600729.095	3468412.946	4567.22	8/8/24	140.11	4427.11
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	2/15/08	143.31	4443.58
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	5/7/08	143.90	4442.99
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/16/08	144.22	4442.67

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/28/08	145.81	4441.08
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/29/09	143.99	4442.90
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	4/15/09	144.38	4442.51
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/15/09	144.99	4441.90
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/15/09	145.66	4441.23
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	2/2/10	145.28	4441.61
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	4/22/10	145.72	4441.17
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/19/10	146.46	4440.43
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/20/10	147.11	4439.78
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/17/11	146.72	4440.17
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	4/11/11	146.31	4440.58
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	8/26/11	148.06	4438.83
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/13/11	148.30	4438.59
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	2/1/12	148.23	4438.66
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	4/25/12	148.82	4438.07
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/13/12	149.79	4437.10
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/11/12	149.73	4437.16
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/16/13	149.49	4437.40
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	4/17/13	150.16	4436.73
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/18/13	150.24	4436.65
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/17/13	150.69	4436.20
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/16/14	150.08	4436.81
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	4/11/14	150.75	4436.14
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/18/14	150.85	4436.04
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/9/14	150.89	4436.00
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	2/2/15	150.01	4436.88
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	5/18/15	150.25	4436.64
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	8/4/15	150.72	4436.17
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	10/8/15	150.47	4436.42
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/12/16	151.01	4435.88
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/26/16	150.95	4435.94
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/16/17	151.31	4435.58
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/24/17	151.59	4435.30
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/12/18	152.06	4434.83
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/16/18	152.74	4434.15
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/14/19	153.39	4433.50
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/23/19	153.77	4433.12
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/16/20	154.08	4432.81
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/23/20	154.23	4432.66
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/11/21	154.86	4432.03
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/26/21	155.57	4431.32
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/28/22	156.25	4430.64
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/13/22	156.48	4430.41
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	2/1/23	156.76	4430.13
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/26/23	156.91	4429.98
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	1/18/24	156.30	4430.59
WEISKOPF 802	641802	601154.951	3468658.855	4586.89	7/26/24	158.48	4428.41
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	12/6/12	149.27	4436.43
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	1/16/13	148.70	4437.00
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	4/17/13	149.80	4435.90
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/18/13	150.15	4435.55
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	10/17/13	150.38	4435.32
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	1/16/14	149.78	4435.92
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	4/11/14	150.50	4435.20

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/18/14	150.55	4435.15
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	10/9/14	150.34	4435.36
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	5/18/15	149.95	4435.75
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	8/4/15	150.31	4435.39
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/26/16	150.63	4435.07
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/24/17	151.52	4434.18
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/16/18	152.37	4433.33
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/23/19	153.41	4432.29
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/23/20	154.84	4430.86
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/26/21	155.25	4430.45
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/13/22	156.16	4429.54
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/26/23	156.61	4429.09
WEISKOPF 897	220897	601096.787	3468647.350	4585.70	7/26/24	158.41	4427.29
ZANDER	205126	599678.884	3467998.533	4580.94	2/4/08	144.85	4436.09
ZANDER	205126	599678.884	3467998.533	4580.94	5/6/08	145.33	4435.61
ZANDER	205126	599678.884	3467998.533	4580.94	7/16/08	146.40	4434.54
ZANDER	205126	599678.884	3467998.533	4580.94	10/28/08	146.01	4434.93
ZANDER	205126	599678.884	3467998.533	4580.94	2/10/09	144.83	4436.11
ZANDER	205126	599678.884	3467998.533	4580.94	4/16/09	144.94	4436.00
ZANDER	205126	599678.884	3467998.533	4580.94	7/14/09	146.14	4434.80
ZANDER	205126	599678.884	3467998.533	4580.94	10/13/09	146.77	4434.17
ZANDER	205126	599678.884	3467998.533	4580.94	1/26/10	146.34	4434.60
ZANDER	205126	599678.884	3467998.533	4580.94	4/22/10	146.27	4434.67
ZANDER	205126	599678.884	3467998.533	4580.94	7/21/10	147.81	4433.13
ZANDER	205126	599678.884	3467998.533	4580.94	10/19/10	147.80	4433.14
ZANDER	205126	599678.884	3467998.533	4580.94	1/18/11	147.52	4433.42
ZANDER	205126	599678.884	3467998.533	4580.94	4/6/11	147.84	4433.10
ZANDER	205126	599678.884	3467998.533	4580.94	7/13/11	148.91	4432.03
ZANDER	205126	599678.884	3467998.533	4580.94	10/12/11	149.50	4431.44
ZANDER	205126	599678.884	3467998.533	4580.94	1/31/12	149.31	4431.63
ZANDER	205126	599678.884	3467998.533	4580.94	4/10/12	149.64	4431.30
ZANDER	205126	599678.884	3467998.533	4580.94	7/17/12	150.63	4430.31
ZANDER	205126	599678.884	3467998.533	4580.94	10/8/12	150.92	4430.02
ZANDER	205126	599678.884	3467998.533	4580.94	1/10/13	150.89	4430.05
ZANDER	205126	599678.884	3467998.533	4580.94	4/18/13	151.36	4429.58
ZANDER	205126	599678.884	3467998.533	4580.94	7/15/13	152.14	4428.80
ZANDER	205126	599678.884	3467998.533	4580.94	10/7/13	151.65	4429.29
ZANDER	205126	599678.884	3467998.533	4580.94	1/7/14	151.10	4429.84
ZANDER	205126	599678.884	3467998.533	4580.94	4/9/14	150.81	4430.13
ZANDER	205126	599678.884	3467998.533	4580.94	7/17/14	152.02	4428.92
ZANDER	205126	599678.884	3467998.533	4580.94	8/3/15	150.65	4430.29
ZANDER	205126	599678.884	3467998.533	4580.94	10/8/15	150.10	4430.84
ZANDER	205126	599678.884	3467998.533	4580.94	1/12/16	149.46	4431.48
ZANDER	205126	599678.884	3467998.533	4580.94	7/15/16	151.25	4429.69
ZANDER	205126	599678.884	3467998.533	4580.94	1/27/17	152.14	4428.80
ZANDER	205126	599678.884	3467998.533	4580.94	7/24/17	152.63	4428.31
ZANDER	205126	599678.884	3467998.533	4580.94	1/16/18	152.03	4428.91
ZANDER	205126	599678.884	3467998.533	4580.94	7/24/18	153.67	4427.27
ZANDER	205126	599678.884	3467998.533	4580.94	1/11/19	154.15	4426.79
ZANDER	205126	599678.884	3467998.533	4580.94	7/16/19	154.82	4426.12
ZANDER	205126	599678.884	3467998.533	4580.94	1/17/20	154.93	4426.01
ZANDER	205126	599678.884	3467998.533	4580.94	8/11/20	155.71	4425.23
ZANDER	205126	599678.884	3467998.533	4580.94	1/12/21	156.33	4424.61
ZANDER	205126	599678.884	3467998.533	4580.94	7/27/21	157.15	4423.79

APPENDIX C
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry Number	UTM East (meters)	UTM North (meters)	Measuring Point Elevation (ft amsl)	Date	Depth To Water (feet)	Groundwater Elevation (ft amsl)
ZANDER	205126	599678.884	3467998.533	4580.94	1/28/22	157.46	4423.48
ZANDER	205126	599678.884	3467998.533	4580.94	7/14/22	157.74	4423.20
ZANDER	205126	599678.884	3467998.533	4580.94	1/12/23	157.72	4423.22

Notes:

35-71891 = ADWR 35 Database

ADWR = Arizona Department of Water Resources

ft amsl = feet above mean sea level

NR = No Record

UTM = Universal Transverse Mercator Zone 12, North American Datum 1983 (NAD83)

Appendix D

Data Verification Report

CLEAR CREEK ASSOCIATES

Appendix D
Data Verification Report
Annual Groundwater Monitoring Report for Report for 2024

Prepared for

Freeport Minerals Corporation
Copper Queen Branch
Bisbee, Arizona

Prepared by

CLEAR CREEK ASSOCIATES

a Geo-Logic Company

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Project # CC18.1080.00

March 12, 2025

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1. Introduction

This report summarizes the data verification review of field measurements, groundwater sampling, and laboratory analyses conducted during 2024 by Clear Creek Associates and Freeport Minerals Corporation, Copper Queen Branch (CQB) pursuant to Mitigation Order on Consent Docket No. P-121-07 (ADEQ, 2007). Clear Creek Associates and CQB collected groundwater samples according to the groundwater monitoring program described by the Mitigation Plan (Clear Creek Associates, 2015) and subsequent modifications recommended by the 2018 Mitigation Performance Review (Clear Creek Associates, 2019) and the 2023 Mitigation Performance Review (Clear Creek Associates, 2024). Analytical results for groundwater samples collected for this project during 2024 were reported to Clear Creek Associates by SVL Analytical, Inc. (SVL) of Kellogg, Idaho and Turner Laboratories, Inc. (Turner) of Tucson, Arizona. Clear Creek Associates compiled and evaluated the analytical results for preparation of this report.

Quality assurance (QA) and quality control (QC) procedures for groundwater monitoring are specified in the Quality Assurance Project Plan for Aquifer Characterization Plan (QAPP) (Appendix F of Hydro Geo Chem, Inc., 2008), including water level measurement, groundwater sampling, chain-of-custody (COC) documentation, laboratory analysis, and reporting. This report reviews field sampling procedures for samples collected by Clear Creek Associates and CQB. Additionally, sample handling and laboratory QA/QC data are evaluated according to the data quality indicators (DQIs) in the QAPP.

The laboratory reports for the 2024 groundwater samples are in Appendix B of this annual report, including COC forms, laboratory correspondence, QC summaries, data qualifiers, and internal QA/QC tests performed by the laboratory. Based on the results of laboratory control samples, matrix spike/recovery and blank spikes, neither SVL nor Turner advised any modifications regarding the usability and data validation status of the laboratory results. The analytical results for 150 samples collected by Clear Creek Associates and CQB in 2024 are contained in 19 reports with the SVL and Turner laboratory identification numbers listed in the following tables.

LAB ID	Q1 WELLS REPORTED
Number of wells sampled: 45 Number of well samples collected (including duplicates and multiple samples from one well): 47 Number of duplicate samples collected: 2 Number of field and equipment blanks collected: 6 Total number of samples collected: 53	
24A0595	ROGERS 596, RUIZ 146, SCHWARTZ, POWER 639, WEED, DODSON, DUP20240117, FB20240717, EQB20240117, PANAGAKOS, KEEFER, ROGERS E
24A0776	BOOTH, NWC-04, NWC-06, NWC-02
24B0046	BMO-2014-4BL, BMO-2014-4B, BMO-2015-1B, BMO-2015-1BL, BMO-2010-3M, DUP 20240131, FB20240131, EQ20240131, BMO-2010-3B, BMO-2014-3BL, BMO-20M-3BL
24B0442	FB240214, EQB240214, COB-MW2, COB-WL
24A0667	BMO-2015-2BL, BMO-2015-2B, COOPER988, TM-10 USBP, AWC-02, AWC-04, AWC-03, AWC-05
24B0208	BMO-2014-2BL, BMO-2014-2BU, BMO-2014-1BU, BMO-2014-1BL
X4C0310	BMO-2008-1G, BMO-2012-1M, BMO-2008-11G, TM-7, BMO-2008-6M, BMO-2008-6B, BMO-2008-5M, BMO-2008-5B, BMO-2008-3B
24B0606	TVI-236
LAB ID	**Q2 WELLS REPORTED**
Number of wells sampled: 1 Number of well samples collected (including duplicates and multiple samples from one well): 1 Number of duplicate samples collected: 1 Number of field and equipment blanks collected: 2 Total number of samples collected: 4	
24D0594	NWC-04, DUP240419, FB240419, EQB240419
LAB ID	**Q3 WELLS REPORTED**
Number of wells sampled: 74 Number of well samples collected (including duplicates and multiple samples from one well): 80 Number of duplicate samples collected: 6 Number of field and equipment blanks collected: 12 Total number of samples collected: 92	
X4H0302	BMO-2008-1G, BMO-2012-1M, BMO-2010-1M, BMO-2008-6M, BMO-2008-6B, BMO-2008-5M, BO-2008-5B, BMO-2008-11G
24G0697	WEISKOPF-897, ROGERS-596, RAY, SCHWARTZ, KEEFER, ECHAVE, PIONKE-517
24H0085	AWC-02, AWC-03, AWC-04, AWC-05, TERRY 101, MCCONNELL 459, NESS, PALMER, PANAGAKOS, EAST, BURKE, DODSON, GARNER 635
24H0321	BMO-2015-2B, DUP240805, BMO-2015-2BL, RAMIREZ, FB240805, EQB240805, COOPER-988, BMO-2010-3M, BMO-2010-3B, ROGER-E, RUIZ-146, DUP240806, BMO-2015-1BL, BMO-2015-1B, BMO-2014-4B, BMO-2014-4BL, HOWARD-312, BMO-2014-1BU, BMO-2014-1BL, BMO-2014-2BL, BMO-2014-2BU, WEED, NWC-06, NWC-02, NWC-04, TM10-USBP, BANKS-986
24H0514	BMO-2014-3BU, FB240812, EQB240812, BMO-2014-3BL, DUP240812, OLMOS, FB240813, EQB240813, POWER-639, DUP240813, ANDERSON-458, FB240814, EQB240814, COB-MW3, DUP240814, COB-MW2, COB-WL, FB240815, EQB240815, THOMPSON-341, FRANCO-383, TVI-236, MOORE, POOL,
24I0341	LAIR, FULTZ
X4H0016	BMO-2008-7M, BMO-2008-9M, TM-15, BMO-2008-3B, DUP-073124
X410102	TM-07, FB-082824, HOBAN, TM-19A, EQB-090424
X4I0321	BMO-2008-8M
LAB ID	**Q4 WELLS REPORTED**
Number of wells sampled: 1 Number of well samples collected (including duplicates and multiple samples from one well): 1 Number of duplicate samples collected: 0 Number of field and equipment blanks collected: 0 Total number of samples collected: 1	
24L0180	NWC-04

2. Operations

Field operations for this project consisted of the following for all wells sampled by Clear Creek Associates and CQB:

- Static water level measurement, if possible,
- Well purging, if needed,
- Collection of water quality field parameters (pH in standard units [SU], specific conductance [SC] in microSiemens per centimeter [µS/cm], and temperature in degrees Celsius [▪C]),
- Collection of groundwater samples for water quality analysis,
- Collection of groundwater QA and QC samples per requirements in the QAPP, and
- Equipment decontamination.

Field notebook entries and sampling forms were evaluated for quality assurance and met the documentation requirements stated in the QAPP.

2.1 Water Level Monitoring

Static water level measurements were attempted at each well that was sampled (where there are no known obstructions or lack of wellhead access to prevent static water level measurement) and at all wells where water level only monitoring was conducted. Water levels at pumping wells were measured while the well pump was off whenever possible. Because it is not always possible to ascertain how long the pump had been off prior to the water level measurement, some water levels may be affected by residual drawdown. If a well was pumping during the water level measurement, the pumping status of the well was noted on the field sheet. Before measuring the water level at each well, the battery on the water level indicator was checked and the sensitivity level was adjusted, if necessary. Depth to water below a surveyed measuring point was measured to the nearest 0.01 feet. Water levels collected by field staff were verified by measuring the depth to water multiple times in order to obtain a consistent reading and accurate measurement.

2.2 Groundwater Sampling

Groundwater samples were collected from operable and accessible wells designated for water quality sampling under the Mitigation Plan (Clear Creek Associates, 2015) and the 2018 and 2023 Mitigation Performance Reviews (Clear Creek, 2018 and 2023). All wells sampled contained

dedicated submersible pumps. Location information for the wells sampled for water quality and water level measurements is listed in Appendix C of the main text.

2.2.1 Pre-Sampling Field Activities

The pH[1] and SC[2] multipurpose meters were calibrated on each day of sampling. In addition, the water level indicator was checked for a signal, which indicates a working meter and sufficient battery strength. On each day where sampling extended for more than half a day, a mid-day calibration check was performed on the pH and SC meters. In addition to calibrating the instruments daily, measures were taken to 1) properly decontaminate field equipment, 2) ensure the appropriate storage and transport temperature of the samples, and 3) document activities related to the collection of groundwater samples as part of this project. These objectives were met by 1) replenishing or obtaining supplies of distilled water and ice daily, 2) use of the proper preservative and sample collection containers, 3) properly packing the samples on ice during field activities, 4) using distilled water to properly decontaminate field equipment prior to the start of sampling each day and after sampling at each well, and 5) obtaining the appropriate field notebook in order to document field activities related to the groundwater monitoring program.

2.2.2 Well Purging, Field Measurements, and Sample Collection

Three wetted casing volumes were purged from each well prior to sampling, when possible. However, when three casing volumes could not be purged, this information was noted on the groundwater sampling form (Appendix A of the annual report). Purge water was discharged to the ground surface.

Field measurements of pH, temperature, and specific conductance were collected at varying intervals during well purging at each well where a water quality sample was collected. If possible, field parameters were monitored until the measurements stabilized within 0.3 standard units for pH, 2° C for temperature and 100 µS/cm for specific conductance as described in Section 4.2.1.2 of the QAPP.

In 2024, 130 groundwater samples (duplicate and multiple samples included) were collected for analysis from 76 wells. Groundwater samples were collected by filtering the sample into a 250 milliliter bottle using a clean filtration apparatus and one disposable 0.45-micron filter. Samples were labelled with the site name, date, time collected, sampler's initials, and the required analysis

[1] Field pH meters were calibrated using a three-point calibration.
[2] Field SC meters were calibrated using standard stock solutions.

on the bottle. All bottles were provided by the laboratories and maintained in a clean and secure work area until used in the field.

2.2.3 Post-Sampling Field Activities

Post-sampling field activities consisted of equipment decontamination, sample storage, and sample shipping. Field equipment that came into contact with the sample was decontaminated using Alconox® detergent and distilled water. After washing, the equipment was rinsed with distilled water. After sample collection, samples from each well were placed into a plastic bag to prevent the label from becoming illegible and stored on ice until they could be packed securely for shipping to the laboratory. The chain of custody was filled out prior to shipping or delivery to the laboratory, signed by the sampler, and then placed in a plastic bag along with the samples.

3. Sample Handling

All 2024 samples collected by Clear Creek Associates and CQB were shipped to SVL or hand-delivered to Turner for analysis. COC documentation accompanied all samples submitted and included the sample name, collection date, and time. Laboratory reports include the date the samples were received by SVL or Turner. As noted on the laboratory reports from SVL and Turner, all of the sample bottles were received intact, properly preserved, and in good condition. The samples were shipped overnight delivery to SVL or delivered to Turner. The samples were collected, shipped or delivered, and received by SVL or Turner within the established holding time for dissolved sulfate analysis in accordance with United States Environmental Protection Agency (EPA) Method 300.0.

4. Laboratory Quality Control

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

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

4.1 Licensure

SVL is licensed with the Arizona Department of Health Services (license number AZ0538) and is accredited in accordance with the National Environmental Laboratory Accreditation Conference. Turner is also licensed with the Arizona Department of Health Services (license number AZ0066).

4.2 Analytical Method

EPA method 300.0 was used for dissolved sulfate analysis during this monitoring period.

4.3 Method Detection Limit, Reporting Limit, and Practical Quantitation Limit

The MDLs, RLs, and PQLs change based on dilution of the samples. The MDLs, RLs, and PQLs of an undiluted sample as reported by SVL and Turner are shown in the following table:

Lab	Method	MDL (mg/L)	RL/PQL (mg/L)	Target MDL[1] (mg/L)
SVL	EPA 300.0	0.18	0.30	10
Turner	EPA 300.0	2.81	5.00	10

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

The SVL and Turner-reported MDLs are equal to or less than the target MDL identified in the QAPP. The PQL is the amount of a constituent that can be consistently quantified with acceptable precision and accuracy (QAPP Section 3.3.7). The PQL for an undiluted sample reported by Turner is 5.00. The RL is used by SVL and is the smallest concentration the laboratory will report for a constituent. The RL of an undiluted sample reported by SVL is 0.30 mg/L. The Turner PQL and SVL

RL are lower than the target MDL of 10 mg/L from the QAPP. Samples with higher range concentrations of sulfate required dilution, which increases the PQL and RL. In all cases of an RL or PQL greater than 10 mg/L sulfate, the laboratory analysis yielded a detected quantity. Thus, detection sensitivity of the analyses is adequate to be consistent with the target MDL.

4.4 Timeliness

All samples submitted for sulfate analysis were analyzed within the twenty-eight day holding time specified by EPA Method 300.0.

4.5 Quality Control Measurements

The following QC samples were prepared and analyzed:

- Calibration blanks and calibration verification standards
- Analytical spike and analytical spike duplicate samples
- Laboratory control samples
- Laboratory duplicate samples
- Field blank samples

4.5.1 Calibration Blanks and Calibration Verification Standards

Results from the analyses of the initial calibration blanks and initial calibration verification standards conducted by EPA Method 300.0 were reviewed. The results of each initial calibration blank analyzed showed results below the RL or PQL. All analytical results for the initial calibration verification standards and laboratory-fortified blanks showed percent recoveries that were within the acceptance criteria specified by the SVL and Turner QA Plans.

4.5.2 Analytical Spike

Analytical spike and spike duplicate samples were analyzed by the laboratories for 10 percent of the samples analyzed. The spike samples were prepared by adding a sulfate spike to one randomly chosen sample out of every ten samples analyzed.

Flags are used in instances in which analytical spike recoveries were high (“M1”), low (“M2”), or unusable (“M3” and “M4”). The “M1”, “M2”, and “M3” flags were not used in an SVL report in 2024. The “M4” flag was used in reports X4G0302, and X4H0016. For those reports, the laboratory control sample recoveries were checked by SVL to ensure that they was acceptable within the

criteria specified by their QA Plan. The laboratory control samples were prepared by adding a sulfate spike to deionized water.

Spike recoveries for samples analyzed by Turner were between 80 and 120 percent except in cases where a qualifier was used. There were no "M3", or "M4" flags reported by Turner in 2024. The "M1" flag was used in report 24B0606. The "M2" flag was used in Turner reports 24A0776, 24B0046, 24A0667, 24B0208, 24H0085, 24H0321, 24H0514, 24I0341. In the cases for which a qualifier was used, the laboratory control sample recovery was checked by Turner to ensure that it was acceptable within the criteria specified by their QA Plan. The laboratory control samples were prepared by adding a sulfate spike to de-ionized water.

4.5.3 Laboratory Duplicate Samples

Analyses of laboratory duplicate samples were reviewed as part of this data verification report. In all cases where the relative percent difference (RPD) could be calculated for laboratory duplicate samples, the RPD was within 20 percent, which is the tolerance range set by the laboratories. The results met QA criteria and demonstrate an appropriate level of precision in laboratory analysis of these samples. Field duplicate samples are discussed in Section 5.1.

4.5.4 Sample Re-Analysis

During 2024, no samples were re-analyzed by Turner or SVL at the request of Clear Creek Associates based on comparison with historical results.

4.5.5 Blank Samples

Field and equipment blank samples were collected in accordance with procedures described in Section 4.2.1.5 of the QAPP. Field and equipment blank samples were collected and submitted along with other samples to evaluate the potential for contaminant introduction under field conditions. Section 4.2.1.5 of the QAPP requires the collection of a minimum of one field blank and one equipment blank sample for every twenty samples.

During 2024, 16 blank samples were collected, including eight field blanks (CQB-FB, FB 20240202, FB20240215, FB20240726, FB20240802, FB20240810, FB20240823, and FB 091223) and eight field equipment blanks (CQB-EB, EQB20240202, EQB20240215, EQB20240726, EQB20240802, EQB20240810, EQB20240823, and EQB-091223). None of the blank samples collected in 2024 had sulfate concentrations above the SVL RL of 0.30 mg/L, or the Turner PQL of 5.0 mg/L. The collection of eight field blanks and eight equipment blanks in 2024 meets the requirement for the

collection of one of each type of blank for every 20 groundwater samples collected not including duplicate or blank samples.

5. Data Quality Indicators

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

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

Each of these DQIs is discussed below in relation to the groundwater sampling and analysis conducted in 2024.

5.1 Precision

Precision indicates how well a measurement can be reproduced. Precision is quantified by calculating the RPD between sulfate analyses of duplicate samples and by measuring the water level multiple times before recording the result.

For the QA/QC of analytical data, precision was quantified by calculating the RPDs between duplicates among the following groups of duplicate samples:

- Laboratory duplicate samples
- Field duplicate samples

As discussed in Section 4.5.3 there were no exceedances of RPD QA criteria for any laboratory duplicates. In 2024, nine field-filtered duplicate samples (DUP240812, DUP240805, DUP240812, DUP240813, DUP-240806, DUP073124, DUP240419, DUP20240131 and DUP20240117) were collected for analysis. The collection of nine duplicate samples meets the QA/QC method and quantity goal stated in Section 4.2.1.5 of the QAPP.

Sulfate results for the field duplicate samples collected are provided in the table below. The range of RPD values was between 0.00 and 43.13 percent. Duplicate samples DUP20240117 (report 24A0595) and DUP240813 (report 24H0514) did not meet the 20 percent acceptance criteria for field duplicates, as stated in Section 3.3.1 of the QAPP.

The sulfate concentration in the DODSON sample was 45.1 mg/L which is within historic range for the well (34.9 to 63.7 mg/L). The sulfate concentration in DUP20240117 was 69.9 mg/L, which is slightly higher than the historic values at DODSON and has an RPD of 43.13% with the DODSON sample. Ten other samples were analyzed for report 24H0515, including eight well samples, and two blank samples. The eight well samples were within or below historic ranges and sulfate was not detected above the PQL of 5.0 mg/L in the two blank samples. In addition, the DUP20240117 sample was diluted 10 times and the PQL for that sample was 50.0 mg/L, which may have affected accuracy of the results for the duplicate sample.

The sulfate concentration in the POWER 639 (217 mg/L) and duplicate sample DUP240813 (160 mg/L) had sulfate concentrations within the historic range of 90.8 to 328 mg/L for the well. Twenty-two other samples were analyzed for report 24H0514, including two other duplicate samples and eight blank samples (Section 4.5.4). The two other duplicate samples analyzed for report 24H0514 (DUP240812 and DUP240814) had RPDs of 0.17% and 0.43% and sulfate was not detected above the PQL of 5.0 mg/L in blank samples.

The reason for the high RPDs between the duplicate samples DUP20240117 and DUP240813 and the primary wells samples is not known and the DQI was not met for those samples. Results for laboratory QA samples (Section 4) and blanks samples (Section 4.5.5) suggest there was no consistent error in laboratory analysis or sampling methodology. Therefore, the DQI for other samples collected in 2024 was met. CQB will review samples collected at POWER 639 and DODSON to ensure that they are within ranges and meet DQIs during future sample events.

Turner/SVL Project No.	Well ID	Duplicate ID	Sample (mg/l)	Duplicate (mg/l)	RPD
24B0046	BMO-2014-3BL	DUP240812	9.2	9.24	0.43%
24A0595	BMO-2015-2B	DUP240805	292	289	1.03%
24D0594	COB-MW-3	DUP240814	58	57.9	0.17%
24H0514	POWER-639	DUP240813	217	160	30.24%
24H0321	ROGERS E	DUP240806	10.8	10.7	0.93%
24H0321	TM-15	DUP073124	15.0	15.0	0.00%
24H0514	NWC-04	DUP240419	188	189	0.53%
24H0514	DUP20240131	BMO-2010-3M	9.1	9.63	5.66%
24A0595	DUP20240117	DODSON	45.1	69.9	43.13%

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

Precision for water level monitoring was met by measuring the water level repeatedly until readings were within 0.03 feet of one another. Readings within that range were obtained from all wells where groundwater measurements were collected by Clear Creek and CQB field staff; meeting the DQI for precision.

5.2 Bias

Bias is a systematic distortion of measurements causing consistent errors in one direction. Bias is managed in this data set by the consistent application of standardized sample collection and analysis procedures. As discussed in Section 4.5.5, none of the blank samples had measurable concentrations of sulfate above the PQL indicating that the sampling collection and analysis procedures did not contribute sulfate to the results.

5.3 Accuracy

Accuracy is a measure of the agreement of a measurement to a known value and is measured using the recoveries from laboratory control samples. As discussed in Sections 4.5.1, 4.5.2, and 4.5.3 there were no significant exceedances of the recovery QA criteria for any of the calibration standards, analytical spikes, or laboratory duplicates, respectively. As discussed in Section 4.5.5, none of the blank samples had sulfate detections above the target MDL indicating that the sampling collection and analysis procedures did not significantly contribute sulfate to the results.

The accuracy of water level measurements was evaluated by comparing measurements to prior measurements to ensure consistency. Based on this information, the overall accuracy of the data is judged sufficient for the purpose of aquifer characterization.

5.4 Representativeness

All water level measurements and samples were taken from locations identified in the Mitigation Plan following standard sampling procedures and QA/QC guidelines specified in the QAPP. Moreover, results are expected to be representative of groundwater quality at the sampled locations because sulfate was not detected above the PQL in the field or equipment blanks.

5.5 Comparability

All samples were collected using standardized procedures (HGC, 2008) and were analyzed by SVL and Turner using standardized methods. Insofar as standardized sample collection and analytical methods are adhered to, the sample results should be comparable.

5.6 Completeness

All samples collected and subsequently analyzed and reported by SVL and Turner satisfy the QA/QC criteria for this project. The completeness of analytical results is 100 percent, which exceeds the minimum 90 percent completeness DQI in Section 3.3.6 of the QAPP.

5.7 Sensitivity

The analytical methods used to analyze the samples meet the MDL requirements specified in Table F.2 of the QAPP. The water level sounder used by Clear Creek and CQB field staff was accurate to 0.01 feet as specified in Section 4 of the QAPP. Therefore, the analytical sensitivity is considered acceptable for use in aquifer characterization.

5.8 Reliability

After analyzing the results of all samples, comparing results to historical data, and carefully reviewing the field and laboratory methods used, the data reported here are judged to provide a reliable representation of groundwater conditions at the sampled locations for 2024.

References

Arizona Department of Environmental Quality (ADEQ). 2007. Mitigation Order on Consent Docket No. P-121-07, In the Matter of: Phelps Dodge Corporation, Copper Queen Branch, located at 36 West Highway 92, Bisbee, Arizona, ADEQ Identification Number 100531. November 14, 2007.

Clear Creek Associates. 2015. Mitigation Plan for Sulfate with respect to Drinking Water Supplies, Mitigation Order on Consent No. P-121-07. March 6, 2015.

Clear Creek Associates. 2019. Mitigation Performance Review for 2018, Mitigation Order on Consent No. P-121-07. March 28, 2019.

Clear Creek Associates. 2024. Mitigation Performance Review for 2023, Mitigation Order on Consent No. P-121-07. April 24, 2024

Hydro Geo Chem, Inc. 2008. Revision 1, Work Plan to Characterize and Mitigate Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Concentrator Tailing Storage Area, Cochise County, Arizona. July 3, 2008.

Appendix E

Well Records Registry Review

CLEAR CREEK ASSOCIATES

Appendix E
Well Records Registry Review
Annual Groundwater Monitoring Report for 2024

Prepared for

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Copper Queen Branch
Bisbee, Arizona

Prepared by

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Project # CC18.1080.00

March 12, 2025

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E.2 Well Search Area and New Well Record

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E.1 Well Records Review Summary

Appendix

E.1 Imaged Records

1. Introduction

1.1 Scope and Objectives

This report describes a review of the Arizona Department of Water Resources (ADWR) 55 Well Registry Database (WRD) to identify new registered wells installed since January 2024 within one mile of the groundwater sulfate plume near the Freeport Minerals Corporation, Copper Queen Branch (CQB) Concentrator Tailing Storage Area (CTSA) (Figure E.1). The well registry records review is a requirement of the Mitigation Plan (Clear Creek Associates, 2015) submitted to Arizona Department of Environmental Quality (ADEQ) in 2015 pursuant to Mitigation Order (MO) on Consent Docket No. P-121-07 between CQB and ADEQ.

The well registry records review is conducted pursuant to Section 2.4 of the Mitigation Plan which states the following.

> *"The ADWR well registry records will be reviewed annually to identify new existing wells installed within one mile of the plume. Water use at new wells will be determined from the ADWR registry record and by inquiry with the well owner."*

An initial inventory of wells within one mile of the plume was submitted to ADEQ in 2008 (Hydro Geo Chem, Inc., 2008). A well inventory update conducted using WRD information available as of April 2012 was submitted to ADEQ in 2014 (Clear Creek Associates, 2014). Annual well records reviews were submitted as part of the Annual Groundwater Monitoring Reports for each year from 2015 to 2023 (Clear Creek Associates, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023 and 2024). The last well records review (Clear Creek Associates, 2024) used WRD information available as of January 2024.

The well records review reported herein discusses only new WRD records added to the WRD between January 2024 and January 2025. The WRD was downloaded from the ADWR website on January 13, 2025 as a shapefile for use with ESRI ArcMap software. The website indicated that the shapefile was last updated on January 13, 2025.

1.2 Monitoring of Drinking Water Supplies

The MO set the action level for the sulfate concentration in drinking water supplies at 250 milligrams per liter (mg/L). The edge of the sulfate plume is defined as the 250 mg/L sulfate

concentration contour estimated based on the results of groundwater monitoring. CQB conducts groundwater sampling for sulfate at drinking water supply and monitoring wells according to the long-term plume monitoring and expanded groundwater monitoring programs described in the Mitigation Plan (CCA, 2015). Public drinking water supplies and private drinking water supplies within 2,000 feet of the plume are sampled semiannually. Annual sampling is performed at private drinking water supplies between 2,000 feet and one mile of the plume, and at drinking water supply wells installed below the plume as mitigation actions. New drinking water supply wells within a mile of the plume are added to the long-term plume monitoring program as they are identified, contingent on well owner approval.

2. Methodology

Figures E.1 and E.2 show the sulfate plume based on groundwater monitoring data for the third quarter of 2024. The January 2025 WRD and Geographic Information Systems (GIS) software were used to identify registered wells installed within 1 mile of the sulfate plume. The database was imported into the GIS software and a shapefile was created to encompass the area 1 mile from the edge of the sulfate plume plus a safety factor of 0.1 miles. The safety factor accounts for uncertainty in the exact position of wells because the WRD contains only cadastral coordinates accurate to approximately 470 feet. Figure E.2 shows the outline of the search area 1.1 miles from the sulfate plume. The list of wells within the January 2024 search area was compared to the list of wells reported in the Well Records Review for 2023 to identify new records.

3. Results

3.1 New Records Identified

The well records review identified one new record for a well within a mile of the plume, Table D.1 lists the new record and the location of the new well record is shown on Figure E.2. The well registry number for the new record is 55-627682. The ADWR imaged records for the well record are attached as Appendix E.1.

The new well record was a request to change well information, approved by ADWR on June 9, 2023, that included an updated location for an existing municipal water production well. The well was identified as NWC-01 in the 2008 Well Inventory Report (HGC, 2008) and in the 2014 well inventory update (Clear Creek, 2014). The well inventories categorized the well as an inactive production well but no location was associated with it. Clear Creek will attempt to contact the new well owner to confirm that the well remains inactive.

References

Clear Creek Associates. 2014. Well Inventory Update, Task 1 of Aquifer Characterization Plan for Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. June 30, 2014.

Clear Creek Associates. 2015. Mitigation Plan for Sulfate with Respect for Drinking Water Supplies, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 6, 2015.

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Clear Creek Associates. 2022. Annual Groundwater Monitoring Report for 2021, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 3, 2022.

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Clear Creek Associates. 2024. Annual Groundwater Monitoring Report for 2022, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. February 22, 2024.

Hydro Geo Chem. 2008. Well Inventory Report, Task 1 of Aquifer Characterization Plan for Mitigation Order on Consent No. P-121-07, Cochise County, Arizona. July 28, 2008.

Figures

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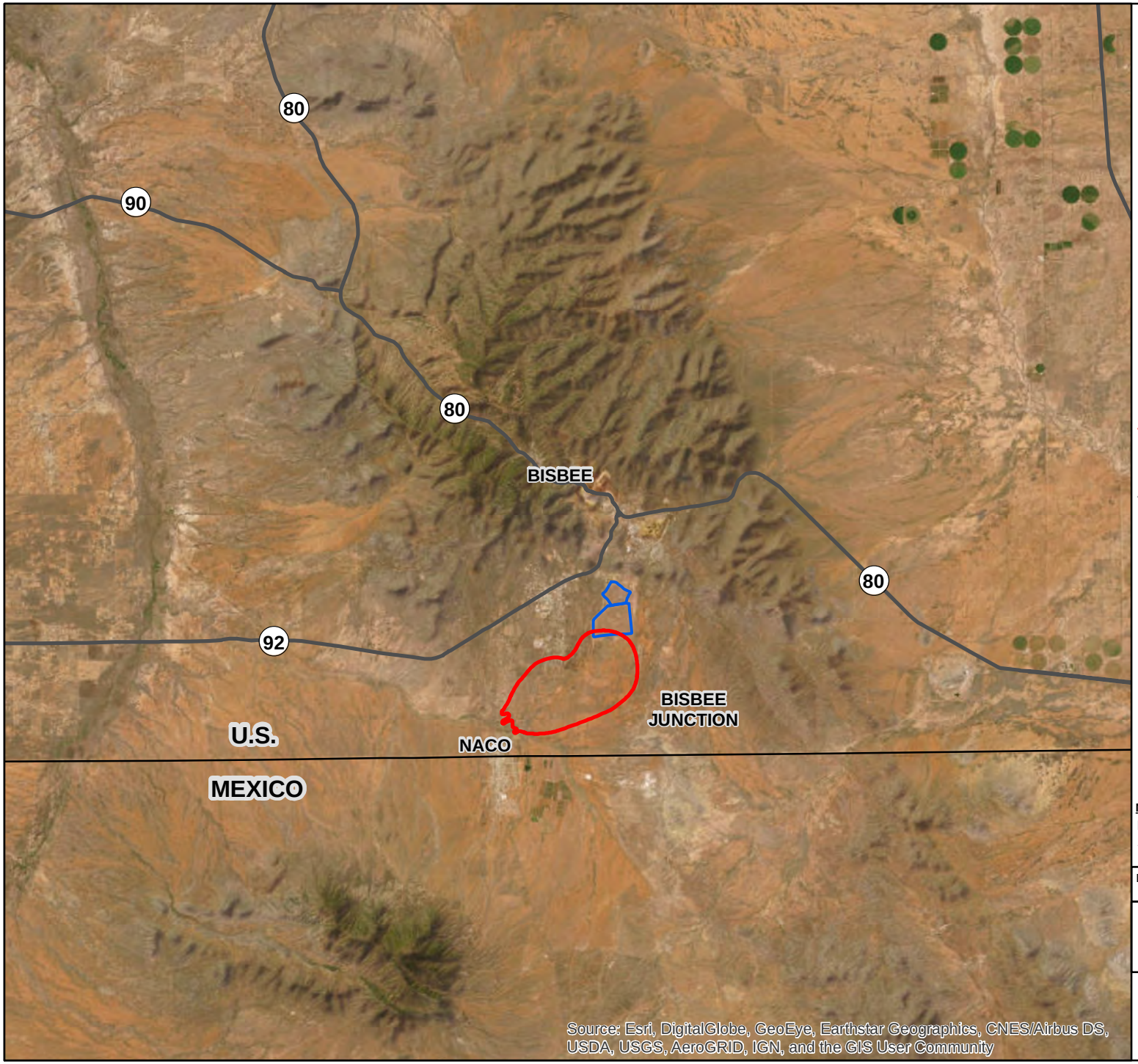

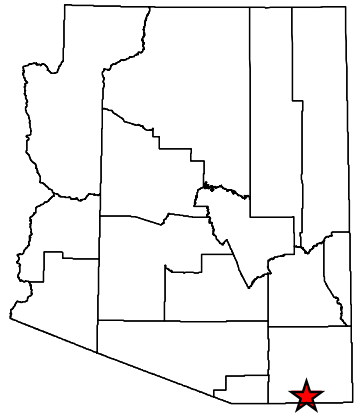

Legend

- Third Quarter 2024 250 mg/L Sulfate Plume
- Concentration Tailing Storage Area (CTSA)
- Highway
- International Border

Miles
0 0.75 1.5 3

Notes:
Projection: UTM Zone 12N NAD83

Date	File ID
1/14/2025	055038-618

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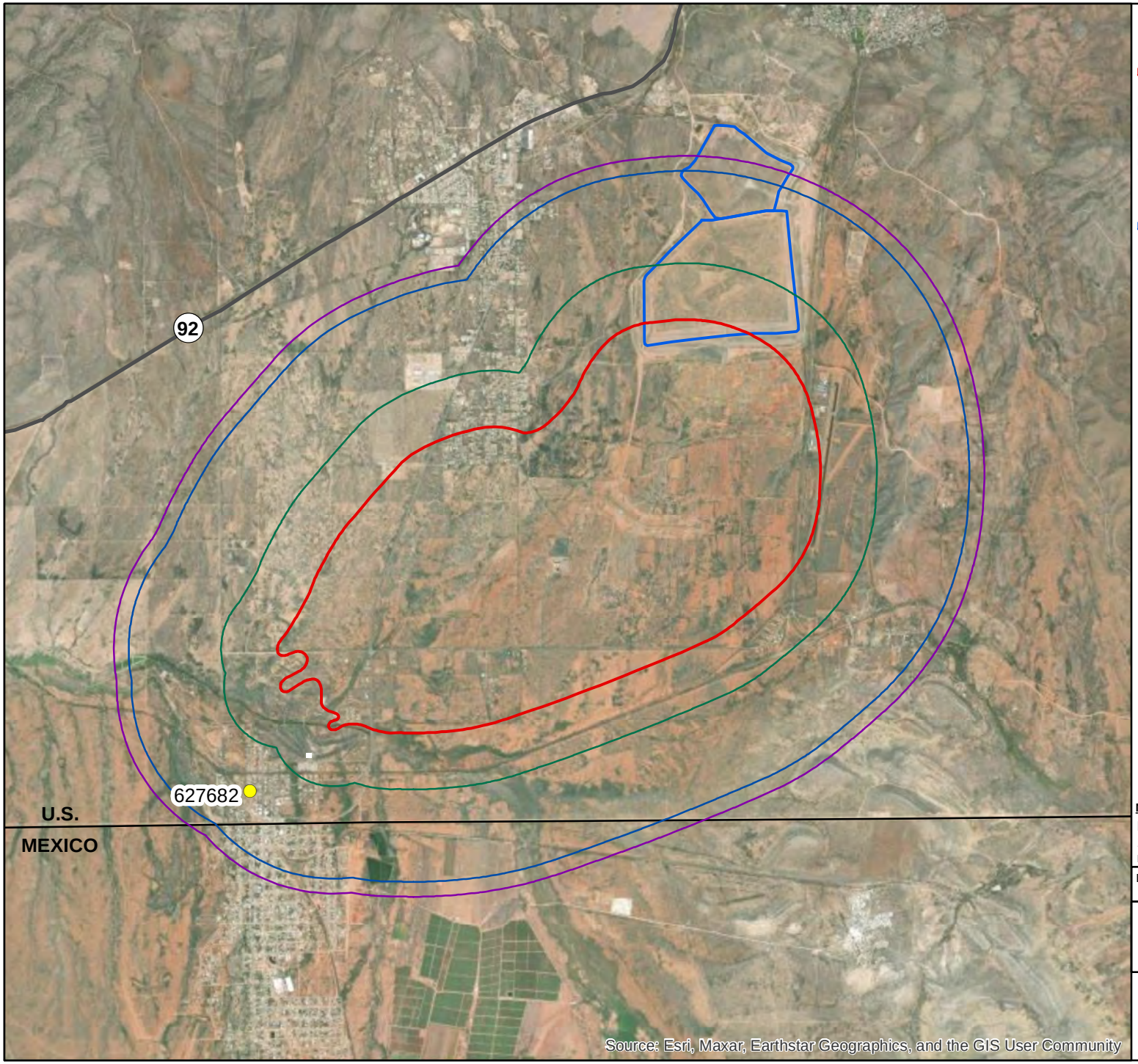
FIGURE E.1 Project Location Map



Legend

- Third Quarter 2024 250 mg/L Sulfate Plume
- 2,000 Foot Buffer 2024
- 1 Mile Buffer 2024
- 1.1 Mile Buffer 2024
- New Well Registration
- Concentration Tailing Storage Area (CTSA)

Feet
0 2,000 4,000 8,000

Notes:

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

Date	File ID
1/30/2025	055038-615

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FIGURE E.2
Well Search Area
and New Well Record

Table

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TABLE E.1.
Well Record Review Summary

Well Registry Number	Owner Name	Well Name	Category	Mitigation Order Groundwater Monitoring Frequency	Operational	Usage
55-627682	Fair Winds LLC	NWC-01	Inactive	None	No	None

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Appendix E.1

Imaged Records

CLEAR CREEK ASSOCIATES

Run Date: 06/08/2023

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location D 24.0 24.0 19 B A B

Well Reg.No
55 - 627682

AMA NOT WITHIN ANY AMA OR INA

Registered Name FAIR WINDS LLC
PO BOX 1915
BISBEE AZ 85603

File Type REGISTERED WELL
Application/Issue Date 06/09/1982

Owner OWNER
Driller No. 0
Driller Name
Driller Phone
County COCHISE
Parcel No. 102-57-052
Intended Capacity GPM 0.00

Well Type NON-EXEMPT
SubBasin NO SUBBASIN
Watershed SAN PEDRO RIVER
Registered Water Uses MUNICIPAL USES
Registered Well Uses WATER PRODUCTION
Discharge Method NONE
Power NO POWER CODE LISTED

Well Depth	215.00	**Case Diam**	8.00	**Tested Cap**	75.00
Pump Cap.	75.00	**Case Depth**	215.00	**CRT**	
Draw Down	0.00	**Water Level**	140.00	**Log**	
		Acres Irrig	0.00	**Finish**	STEEL - PERFORATED OR SLOTTED CASING

Contamination Site: NO - NOT IN ANY REMEDIAL ACTION SITE

Tribe: Not in a tribal zone

Comments 6/2/2023: Parcel info undated by lot #. -cam

Current Action

6/2/2023 856 CHANGE OF BOOK/MAP/PARCEL DATA
Action Comment: cam

Action History

6/2/2023 860 CHANGE OF WELL OWNERSHIP
Action Comment: cam

9/24/1951 755 WELL CONSTRUCTION COMPLETED
Action Comment:

Arizona Department of Water Resources
Groundwater Permitting and Wells Section
1802 W Jackson St. Box 79 Phoenix, AZ 85007
(602) 771-8527 • www.azwater.gov

RECEIVED
MAY 02 2023
ARIZONA DEPARTMENT OF WATER RESOURCES

REQUEST TO CHANGE WELL INFORMATION

A PERSON TO WHOM A WELL IS REGISTERED MUST NOTIFY THE ARIZONA DEPARTMENT OF WATER RESOURCES (ADWR) OF A CHANGE IN OWNERSHIP OF THE WELL AND THE NEW OWNER MUST FURNISH INFORMATION AS REQUIRED BY ADWR TO KEEP WELL REGISTRATION RECORDS CURRENT AND ACCURATE. *PURSUANT TO ARIZONA REVISED STATUTES (A.R.S.) § 45-593 (C)*

** PLEASE PRINT CLEARLY

NEED HELP? CALL (602) 771-8527

SECTION 1. REQUIRED FILING FEE AND DOCUMENTATION. *(Make checks payable to ADWR)*

YOU **MUST** INCLUDE THE FOLLOWING **THREE** ITEMS WITH THIS APPLICATION:

Failure to include these items may result in application being returned.

- ☐ **FILING FEE OF $30.00** (PURSUANT TO A.R.S. §45-113 AND ARIZONA ADMINISTRATIVE CODE RULE 12-15-104).
- ☐ **LEGAL PROOF OF OWNERSHIP** SHOWING LAND OWNERSHIP IN THE NAME OF THE NEW OWNER OF LAND WHERE THE WELL IS LOCATED. LEGAL PROOF OF OWNERSHIP INCLUDES, BUT IT NOT LIMITED TO, A RECORDED DEED (OFFICIAL OR UNOFFICIAL), OBTAINED FROM THE RECORDER'S OFFICE OF THE COUNTY IN WHICH THE LAND IS LOCATED, COURT ORDER, AGREEMENT OR OTHER LEGAL PROOF THAT DEMONSTRATES OWNERSHIP.
- ☐ **COPY OF COUNTY ASSESSOR MAP** PLEASE PRINT AN AERIAL PHOTO OR A COUNTY ASSESSOR PARCEL MAP AND PLACE AN (X) WHERE THE WELL IS LOCATED ON YOUR PARCEL

SECTION 2. REGISTRY INFORMATION

WELL REGISTRATION NUMBER 55- 627682	WELL LOCATION ADDRESS (IF ANY) / OR CROSS STREETS ~~3847~~ S. TOWNER AVE., Naco, AZ 85620 3800
COUNTY ASSESSOR'S PARCEL ID NUMBER: BOOK 102 MAP 57 PARCEL ~~037~~ 052	COUNTY WHERE WELL IS LOCATED Cochise

SECTION 3. STATEMENT OF CHANGE OF WELL OWNERSHIP — FEE $30

Previous Well Owner	New Well Owner	
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL SANDRA ROGERS, AS PERSONAL REPRESENTATIVE OF THE ESTATE OF ERNEST M. ROGERS, DECEASED, COCHISE COUNTY PROBATE CASE NO. PB201700277	FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL FAIR WIND LLC, AN ARIZONA LIMITED LIABILITY COMPANY	
MAILING ADDRESS 4665 E. JULIE DRIVE	MAILING ADDRESS P.O. BOX 1915	
CITY / STATE / ZIP CODE PRESCOTT, AZ 86301	CITY / STATE / ZIP CODE BISBEE, AZ 85603	
CONTACT PERSON NAME AND TITLE	CONTACT PERSON NAME AND TITLE	
TELEPHONE NUMBER	TELEPHONE NUMBER	EMAIL VANGORP.BRETT@GMAIL.COM

SECTION 4. CHANGE OF WELL INFORMATION: (CHANGE OF ADDRESS, LEGAL LOCATION, G.P.S. OR PARCEL NUMBER) — NO FEE

PROVIDE A NARRATIVE SUMMARY AND ATTACH ANY DRAWINGS, MAPS OR DIAGRAMS THAT WOULD CLARIFY THE CHANGE. NOTE: APPLIES ONLY TO WELLS THAT HAVE ***ALREADY BEEN DRILLED***. FOR CHANGING INFORMATION ON A PROPOSED WELL, AN *AMENDED NOTICE OF INTENT TO DRILL A WELL* FORM MUST BE FILED. FOR CHANGE OF DRILLER, A *CHANGE OF DRILLER* FORM MUST BE FILED.

REQUESTED CHANGES	

SECTION 5. WELL OWNER SIGNATURE (OR AUTHORIZED AGENT)

I HEREBY CERTIFY that I have included the filing fee & required documentation, and the above statements are true to the best of my knowledge & belief.

TYPE OR PRINT NAME: SANDRA ROGERS, AS PERSONAL REPRESENTATIVE OF THE ESTATE OF ERNEST M. ROGERS, DECEASED, COCHISE COUNTY PROBATE CASE NO. PB201700277 TITLE: personal rep

SIGNATURE: _____ DATE: 4-17-23

2023-06920
Page 1 of 3
Requested By Pioneer Title Agency
David Stevens - Recorder
Cochise County, AZ
04/18/2023 02:54 PM Recording Fee $30.00

at the request of Pioneer Title Agency, Inc.

When recorded mail to
FAIR WIND LLC, AN ARIZONA LIMITED LIABILITY COMPANY
P.O. BOX 1915
BISBEE, AZ 85603

70602661-CR

SPACE ABOVE THIS LINE FOR RECORDER'S USE

SPECIAL WARRANTY DEED

For the consideration of Ten Dollars, and other valuable considerations,

SANDRA ROGERS, AS PERSONAL REPRESENTATIVE OF THE ESTATE OF ERNEST M. ROGERS, DECEASED, COCHISE COUNTY PROBATE CASE NO. PB201700277

hereafter called the Grantor, hereby conveys to

FAIR WIND LLC, AN ARIZONA LIMITED LIABILITY COMPANY

the following real property situated in Cochise County, Arizona, together with all rights and privileges appurtenant thereto, to wit:

See Exhibit A attached hereto and made a part hereof.

Subject to current taxes and other assessments, reservations in patents and all easements, rights of way, encumbrances, liens, covenants, conditions, restrictions, obligations and liabilities as may appear of record.

And the Grantor binds itself and its successors to warrant the title as against its acts and none other, subject to the matters above set forth.

DATED April 14, 2023

SANDRA ROGERS, AS PERSONAL REPRESENTATIVE OF THE ESTATE OF ERNEST M. ROGERS, DECEASED, COCHISE COUNTY PROBATE CASE NO. PB201700277

Exhibit A

PARCEL I:

Lots 509 and 511, Block 10, NACO TOWNSITE, according to Book 1 of Maps, page 138, records of Cochise County, Arizona;

EXCEPT all mineral rights as reserved in Deed recorded in Docket 852, page 346, records of Cochise County, Arizona.

PARCEL II:

Lots 513, Block 10, NACO TOWNSITE, according to Book 1 of Maps, page 138, records of Cochise County, Arizona.

PARCEL III:

Lots 410, 412, 414 and 416, Block 12, NACO TOWNSITE, according to Book 1 of Maps, page 138, records of Cochise County, Arizona.

PARCEL IV:

Lot 408, Block 12, NACO TOWNSITE, according to Book 1 of Maps, page 138, records of Cochise County, Arizona.

55-627682

6/8/2023, 11:59:33 AM

1:2,257

0 0.02 0.04 0.08 mi

0 0.04 0.07 0.14 km

Maxar, Microsoft

- Address
- County Maintained Road
- Road
- Taxable Parcel

NFHL - National Flood Hazard Layer - Flood Hazard Zones

- 0.2% Annual Chance Flood Hazard

Web AppBuilder for ArcGIS
Maxar, Microsoft |

Printed: 5/3/2023 7:39:32 AM

Arizona Department of Water Resources

1110 West Washington Street, Suite 310
Phoenix AZ 85007

Customer:

PIONEER TITLE AGENCY, INC.
8 BISBEE ROAD
BISBEE, AZ 85603

Receipt #: 23-99175
Office: MAIN OFFICE
Receipt Date: 05/03/2023
Sale Type: IN_PERSON
Cashier: Susan Montoya

Item No.	Function Code	AOBJ	Description	Ref ID	Qty	Unit Price	Ext Price
81213	WRFREV	4439-TT	Change of Ownership/Change of Well Information/Well Assignment	627682	1	30.00	30.00
						RECEIPT TOTAL:	**30.00**

Payment type: CHECK
Amount Paid: $30.00
Payment Received Date: 05/03/2023

Check # 70339452

Notes: FROM TTA.

Escrow No. 70602661 - 006 CR Check Date: 04/18/2023 Check No. 70339452

DESCRIPTION	CODE	AMOUNT
WELL TRANSFER FEE		$30.00
	Check Total	$30.00

Seller/Buyer: ROGERS/FAIR WIND LLC
Property Address: 3847 S. TOWNER AVE. Naco, AZ 85620
Tax Parcel Id: 102-57-037-00

DEPARTMENT OF WATER RESOURCES
99 EAST VIRGINIA AVENUE
PHOENIX, ARIZONA 85004

RECEIVED JUN 9 1982 DEPT. OF WATER RESOURCES

REGISTRATION OF EXISTING WELLS

READ INSTRUCTIONS ON BACK OF THIS FORM BEFORE COMPLETING
PRINT OR TYPE – FILE IN DUPLICATE

REGISTRATION FEE (CHECK ONE)	
EXEMPT WELL (NO CHARGE)	☐
NON-EXEMPT WELL – $10.00	☒

FOR OFFICE USE ONLY
REGISTRATION NO. 55- 627682
FILE NO. D(24-24)19bab
FILED JUN 9 1982 (DATE) AT 1pm (TIME)
INA
AMA

1. Name of Registrant:
Naco Water Co. & Salim Dominguez
128D Street (Address) Naco (City) Az. (State) 85620 (Zip)

2. File and/or Control Number under previous groundwater law:
_____ (File Number) 35- _____ (Control Number)

3. a. The well is located within the NW ¼ NE ¼ NW ¼, Section 19, of Township 24S N/S, Range 24E E/W, G & SRB & M, in the County of Cochise.

b. If in a subdivision: Name of subdivision _____, Lot No. 412, 12 Block, Address Naco, Az.

4. The principal use(s) of water (Examples: irrigation - stockwater - domestic - municipal - industrial) municipal.

5. If for irrigation use, number of acres irrigated from well _____.

6. Owner of land on which well is located. If same as Item 1, check this box ☒
_____ (Address) _____ (City) _____ (State) _____ (Zip)

7. Well data (If data not available, write N/A)
a. Depth of Well 215 feet
b. Diameter of casing 8 inches
c. Depth of casing 215 feet
d. Type of casing steel.
e. Maximum pump capacity 75 gallons per minute.
f. Depth to water 140 feet below land surface.
g. Date well completed Sept. (Month) 24 (Day) 1951 (Year).

8. The place(s) of use of water. If same as Item 3, check this box ☒.
_____¼ _____¼ _____¼, Section _____ Township _____ Range _____
_____¼ _____¼ _____¼, Section _____ Township _____ Range _____
Attach additional sheet if necessary.

9. DATE 6-8-82 SIGNATURE OF REGISTRANT By Naco Water Co. & Salim Dominguez
Wilford R. Richardson
Wilford R. Richardson, Attorney

MICROFILMED

INSTRUCTIONS FOR COMPLETING REGISTRATION FORM

General Instructions

1. A person who owns an "Existing Well" shall register the well, pursuant to A.R.S. 45-593, by filing this form in **duplicate** with the Department of Water Resources not later than midnight June 14, 1982. The form must be completed and signed. Failure to do so will constitute a violation of A.R.S. 45-593, and may subject the well owner to injunction and/or civil penalties, pursuant to A.R.S. Title 45, Article 12.

2. An "Existing Well" means, (1) a well which was drilled on or before June 12, 1980 and which is not abandoned or sealed, or (2) a well which was not completed on or before June 12, 1980, but for which a Notice of Intention to Drill was on file with the Arizona Water Commission on or before June 12, 1980.

3. No registration fee is required for Exempt Wells. A $10.00 registration fee must accompany registration forms for all Non-Exempt Wells.

4. An "Exempt Well" means a well having a pump with a maximum capacity of not more than 35 gallons per minute which is used to withdraw groundwater. An Exempt Well may include the non-commercial irrigation of not more than 1 acre of land.

5. A "Non-Exempt Well" means a well that is not an "Exempt Well".

INSTRUCTIONS FOR REGISTRATION QUESTIONS

1. The Registrant must be the owner of the well and may be an individual, public or private corporation, company, partnership, firm, association, society, estate, trust, any other private organization or enterprise, the United States, any state, territory or country or a governmental entity, political subdivision or municipal corporation organized under or subject to the constitution and laws of this State.

2. If you own an existing irrigation well drilled at any time, or any other type of well drilled on or after June 20, 1968, you should have an assigned control and/or file number. Write these numbers in item 2. If you do not know the number, please explain the reason on the form or on an attached sheet.

3. a. Fill in the Section, Township and Range in all cases if it is available.
   b. If the well is in a subdivision and you have this information, give the subdivision name, Lot Number, and Address.

4. Show all purposes for which the water is used.

5. If the well is used for irrigation, give the number of acres irrigated in 1980 from the well.

6. If the owner of the land is an individual, give the last name, first name, middle initial. If the owner of the land is a corporation, partnership, firm, etc., fill in the appropriate title.

7. Complete the section on Well Data with the most accurate information available to you. If the data is not available, write N/A in the blanks.

8. Give the legal description of the place of use of the water. If place of use is in a subdivision and legal description is not available, give the subdivision name, Lot Number and/or address on the blank line.

9. The person in whose name a well is registered shall notify the Department of any change in ownership and shall keep all information on the registration record current and accurate. A form entitled "Change of Well Information/Ownership" is available for this purpose. A blank form will be furnished with the returned duplicate copy of the registration form.

RICHARDSON & MORTENSEN
ATTORNEYS AT LAW
BOX 247
SAFFORD AZ 85546

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
WATER RIGHTS ADMINISTRATION
99 EAST VIRGINIA
PHOENIX, ARIZONA 85004

RECEIPT

KIND ENTRY	FILE REFERENCE NO.
55	627681
	THRU
55	627690

FOR: CLARK, DOMINGUEZ, MAYBERRY, MCKEEN, SMITHSON & WATSON

(10)

ACCOUNT NO. FUND SOURCE	AGENCY	CHAPTER	DIV.	INT. ACCT.	ITEM DESCRIPTION	RATE	$ AMOUNT
					Filing Fee for Registration of Existing Wells	10.00	100.00
					File Numbers:		
					B CLARK - - - - - D(8-17)17 dcd S DOMINGUEZ - - - D(24-24)19 bab		
					D(24-24)18 cd D(24-24)18 add D(24-24)10 dcb		
					J MAYBERRY- - - - D(18-21)6 abb D(17-21)31 ada		
					J MCKEEN - - - - D(8-26)7 aaa C SMITHSON - - - D(8-26)7 aad		
					W WATSON - - - - D(10-16)16 dac		

WRITER PAYMENT
GUESTS 10
CHK NO 3381
55-I 100.00
TAX 0.00
TOTL 100.00
GEN.CHEK 100.00

4554 A 14:17

11/19/82 jc Check No. 3381 TOTAL $ 100.00