

ANNUAL GROUNDWATER MONITORING REPORT FOR 2022

**MITIGATION ORDER ON CONSENT DOCKET NO. P-121-07
COCHISE COUNTY, ARIZONA**



Prepared for:

**FREEPORT MINERALS CORPORATION
COPPER QUEEN BRANCH**
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:

CLEAR CREEK ASSOCIATES, L.L.C.
221 North Court Avenue, Suite 101
Tucson, Arizona 85701

March 6, 2023

**ANNUAL GROUNDWATER MONITORING REPORT
FOR 2022**

**MITIGATION ORDER ON CONSENT DOCKET NO. P-121-07
COCHISE COUNTY, ARIZONA**

Prepared for:

**FREEPORT MINERALS CORPORATION
COPPER QUEEN BRANCH**
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:



Expires: 6/30/23

Ben Daigneau
Arizona Registered Geologist No. 57975

Approved by:



Expires 12/31/

James R. Norris
Arizona Registered Geologist No. 30842

March 6, 2023

TABLE OF CONTENTS

1.	INTRODUCTION	1
1.1	Mitigation Plan.....	1
1.2	Scope of Annual Groundwater Monitoring Report	2
1.3	Sources of Groundwater Monitoring Data in 2022.....	2
	1.3.1 Long-Term Plume Monitoring.....	2
	1.3.2 Expanded Groundwater Monitoring Program	3
1.4	ADWR Well Records Review	4
2.	GROUNDWATER MONITORING RESULTS	5
2.1	Sulfate Data.....	5
2.2	Water Elevation Data.....	6
2.3	Quality Assurance/Quality Control.....	6
2.4	Results of ADWR Well Records Review	7
3.	REFERENCES	8

TABLES

1	Groundwater Monitoring Schedule in 2022
2	Summary of Groundwater Monitoring in 2022
3	Compilation of Analytical Results for Sulfate and Field Parameters
4	Compilation of Groundwater Elevation Data

FIGURES

1	Project Location Map
2	Geologic Map with Monitoring Locations
3	Groundwater Monitoring Locations
4	Naco Area Well Sites
5	Sulfate Concentrations in Site-Wide Groundwater Samples for First Quarter 2022
6	Sulfate Concentrations in Site-Wide Groundwater Samples for Third Quarter 2022
7	Sulfate Concentrations at the West Edge of the Plume for First Quarter 2022
8	Sulfate Concentrations at the West Edge of the Plume for Third Quarter 2022
9	Sulfate Concentration Over Time in Public Drinking Water Supply Wells
10	Sulfate Concentrations Over Time in Expanded Groundwater Monitoring Program Wells
11	Site-Wide Groundwater Elevations for First Quarter 2022
12	Site-Wide Groundwater Elevations for Third Quarter 2022
13	Basin Fill Groundwater Elevations at the West Edge of the Plume for First Quarter 2022
14	Basin Fill Groundwater Elevations at the West Edge of the Plume for Third Quarter 2022
15	Hydrographs for Selected BMO Monitor Wells in Basin Fill
16	Hydrographs for BMO Monitor Wells in Basin Fill for Expanded Groundwater Monitoring Program

17 Hydrographs for BMO Monitor Wells in Bedrock

APPENDICES

- A Groundwater Sampling Forms
- B Analytical Reports
- C Data Verification Report
- D Well Records Registry Review

1. INTRODUCTION

This annual report provides the results of groundwater monitoring activities conducted in calendar year 2022 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 action¹ 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 affected² by sulfate. Drinking water supplies in the vicinity of the plume do not exceed the sulfate action level of 250 milligrams per liter (mg/L) at this time because CQB mitigated previously affected supplies (CQB, 2013) under a separate plan (Clear Creek Associates, 2012) approved by ADEQ (ADEQ, 2012).

The mitigation action being implemented by CQB is Alternative 1C, which was identified as the recommended alternative by a Feasibility Study (Clear Creek Associates, 2014) 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 Report

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 the annual groundwater monitoring report is to provide the water quality and water level data collected in 2022 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 mitigation performance review reports submitted to ADEQ under the Mitigation Plan (e.g. Clear Creek Associates, 2019a).

1.3 Sources of Groundwater Monitoring Data in 2022

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.

Groundwater sampling and water level measurement for long term plume monitoring were conducted by CQB and Clear Creek Associates personnel. Table 1 provides the groundwater monitoring schedule for the monitoring program in 2022. Table 2 summarizes the status of sampling in 2022. 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.

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, Inc., 2008). Dissolved sulfate is the only constituent monitored. Appendices A and B contain field data forms and laboratory reports, respectively, for samples collected in 2022.

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. The results of this monitoring will be used to identify sentinel well locations near the public supplies and sentinel well sulfate action levels that would, if exceeded, initiate a contingent mitigation. 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 2022 are tabulated in Table 3, along with the results of previous monitoring under the Mitigation Order. Historical 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 2022 (Table 1). Figures 5 and 6 are sulfate concentration contour maps for the first and third quarters of 2022. Figures 7 and 8 are sulfate concentration maps of the west edge of the plume in the first and third quarters of 2022. 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 2022 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 74.3 mg/L in 2022, 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 2022. Sulfate concentrations at NWC-04 near Bisbee Junction, which is believed to be at the receding edge of the plume, ranged between 170 and 189 mg/L in 2022.

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 2022 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. The lack of an abrupt increase in sulfate indicates that there has been no discernable migration of a plume front at the expanded groundwater monitoring program wells.

2.2 Water Elevation Data

Groundwater level data collected in 2022 are listed in Table 4, along with previous data collected for the Mitigation Order. 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 2022. 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 2022. In Figures 11 through 14, the most recent depth to water measurement is used for contouring at wells with multiple measurements during a quarter.

Groundwater elevations over time for BMO monitor wells with screened intervals in basin fill are shown by 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 2022. 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 2022 is in Appendix C. Based on the

data verification review, the field measurements and analytical results collected in 2022 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 D contains the ADWR well records review for 2022. The ADWR well records review was conducted using a version of the well records database current through January 9, 2023. The review identified one new well registration within one mile of the sulfate plume that did not exist during previous well record reviews.

The new well record is a Notice of Intent to install a well for a domestic water production well submitted to ADWR on April 4, 2022. The new well was installed in October 2022 and is being used as a domestic supply well according to the owner, Linda Lair. The well will be sampled in the first quarter 2023 and added to the sampling schedule for annual sampling pursuant to the Mitigation Plan. The well will be included in the annual reports as LAIR and added to the updated sampling schedule.

3. 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.
- ADEQ. 2012. Correspondence from Mindi Cross, ADEQ, to Rebecca Sawyer, CQB, Re: Seventeenth Status Report for Mitigation Order on Consent No. P-121-07; Freeport-McMoRan Corporation, Copper Queen Branch August 17, 2012 response letter for travel time analysis for the sulfate plume and proposed schedule for the Feasibility Study and Mitigation Plan; and Feasibility Study and Mitigation Plan for Drinking Water Supplies Affected By Sulfate Mitigation on Consent Docket No. 121-07, prepared by Clear Creek Associates, P.L.C., dated March 28, 2012. October 10, 2012.
- ADEQ. 2014. Correspondence from Mindi Cross, ADEQ, to Stuart Brown, Freeport-McMoRan Copper & Gold, Re: Review of Feasibility Study Report, Mitigation Order on Consent Docket No. P-121-07, Arizona, dated July 30, 2013, prepared by Clear Creek Associates, P.L.C. April 2, 2014.
- ADEQ. 2015. Email correspondence from Madeline Keller, ADEQ, to William Hart, CQB. Re: Mitigation Order on Consent No. P-127-07. March 11, 2015.
- Clear Creek Associates. 2010. Revision I Aquifer Characterization Report, Task 4.0 of Aquifer Characterization Plan, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona, Volumes I and II. December 15, 2010.
- Clear Creek Associates. 2012. Feasibility Study and Mitigation Plan for Drinking Water Supplies Affected by Sulfate, Mitigation Order on Consent No. P-121-07. March 28, 2012.
- Clear Creek Associates. 2014. Feasibility Study for Drinking Water Supplies that may be Affected by Sulfate in the Future, Mitigation Order on Consent Docket No. P-121-07. May 28, 2014.
- Clear Creek Associates. 2015a. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies, Mitigation Order on Consent Docket No. P-121-07. March 6, 2015.
- Clear Creek Associates. 2015b. Results of Well Installation and Groundwater Monitoring through the second quarter of 2015 for the Expanded Groundwater Monitoring Program, Mitigation Order on Consent Docket No. P-121-07. August 19, 2015.
- Clear Creek Associates. 2016. Exploration Drilling and Hydraulic Testing for Water Supply Study. Mitigation Order on Consent Docket No. P-121-07. February 5, 2016.
- Clear Creek Associates. 2019a. Mitigation Performance Review for 2018. Mitigation Order on Consent Docket No. P-121-07. March 28, 2019.

- Copper Queen Branch (CQB). 2013. Correspondence from Rebecca A. Sawyer, CQB, to Mindi Cross, ADEQ, Re: Mitigation Order on Consent No. P-121-07, Private Well Mitigation. March 7, 2013.
- Hayes, P.T. and E.R. Landis. 1964. Geologic Map of the Southern Part of the Mule Mountains, Arizona. United States Geological Survey Miscellaneous Geologic Investigations Map-418.
- 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.

TABLES

TABLE 1
Groundwater Monitoring Schedule in 2022

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	PDWS	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)	✓	✓	

TABLE 1
Groundwater Monitoring Schedule in 2022

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	PDWS	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	
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)	✓	✓	
OLMOS	224745	PDWS	DWS	WLO	✓	
OSBORN	643436	PDWS	DWS (>2000)		✓	
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	DWS (<2000)	✓	✓	
ROGERS 803	641803	PDWS	DWS (<2000)	✓	✓	
ROGERS E	216018	PDWS	DWS (<2000)	✓	✓	
RUIZ	531770	PDWS	DWS (<2000)	✓	✓	

TABLE 1
Groundwater Monitoring Schedule in 2022

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 146	232146	PDWS	DWS (<2000)	✓	✓	
SCHWARTZ	210865	PDWS	DWS (<2000)	✓	✓	
STEPHENS	808560	PNDW	RM	WLO	WLO	
SWAN	810034	PDWS	DWS (>2000)		✓	
TERRY	NR	PDWS	DWS (>2000)		✓	
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	WLO	✓	

Notes:

- 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 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			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 measurement only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
ANDERSON 458	221458	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
ASLD 435	616435	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
AWC-02	616586	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
AWC-03	616585	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
AWC-04	616584	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
AWC-05	590620	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BANKS 986	647986	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in July 2022. 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 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
BARTON 919	644919	WLO	N	N	Well identified for water level measurements only. Water level not measured due to obstruction in well.	WLO	N	N	Well identified for water level measurements only. Water level not measured due to obstruction in well.
BIMA	577927	NS	N	N	Well is not scheduled for first quarter monitoring.	NS	N	N	Well is not scheduled for third quarter annual monitoring.
BMO-2008-1G	909474	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-3B	909147	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in August 2022.
BMO-2008-4B	910096	WLO	Y	N	Well identified for water level measurement only. Water level measured in February 2022.	✓	Y	Y	Water quality sample collected in August 2022.
BMO-2008-5B	909653	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-5M	909552	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-6B	909146	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-6M	909019	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-7M	908794	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	✓	Y	Y	Water quality sample collected in July 2022.

TABLE 2
Summary of Groundwater Monitoring in 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
BMO-2008-8B	910097	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
BMO-2008-8M	909711	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-9M	909255	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2008-10GL	909435	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
BMO-2008-10GU	909272	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
BMO-2008-11G	909434	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in August 2022.
BMO-2008-13B	909551	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
BMO-2008-13M	909760	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
BMO-2010-1M	219957	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2010-2M	219958	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
BMO-2010-3B	219970	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2010-3M	219969	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2012-1M	221388	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2014-1BL	917394	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2014-1BU	917393	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2014-2BL	917452	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2014-2BU	917453	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2014-3BL	917527	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in August 2022.
BMO-2014-3BU	917494	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in August 2022.

TABLE 2
Summary of Groundwater Monitoring in 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
BMO-2014-4B	917620	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2014-4BL	917619	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2015-1B	917622	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2015-1BL	917621	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2015-2B	917827	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BMO-2015-2BL	917828	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
BOOTH	914931	✓	N	N	Well owner has declined participation in well sampling program.	✓	N	N	Well owner has declined participation in well sampling program.
BURKE	212268	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in July 2022. 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	N	Y	Well identified for water level measurements only. Water level not measured at well owner request.
COB MW-2	903984	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in August 2022.
COB MW-3	906823	WLO	Y	N	Well identified for water level measurements only. Water level measured in February 2022.	✓	Y	Y	Water quality sample collected in August 2022.
COB WL	593116	✓	Y	Y	No property access.	✓	Y	Y	Water quality sample collected in August 2022.
COOPER	623564	✓	N	N	Unable to sample due to inoperable pump. Water level not measured due to no port in wellhead.	✓	N	N	Unable to sample due to inoperable pump. Water level not measured due to no port in wellhead.
COOPER 988	232988	✓	N	N	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
COOPER C	637069	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
DODSON	644927	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
DOUGLASS 791	592791	NS	N	N	Well is not scheduled for first quarter monitoring.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
DOUGLASS 792	592792	NS	N	N	Well is not scheduled for first quarter monitoring.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.

TABLE 2
Summary of Groundwater Monitoring in 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
EAST	599796	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
ECHAVE	219449	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	✓	N	Y	Water quality sample collected in July 2022. Water level not measured due to obstruction in well.
EPPELE 641	805641	NS	Y	Y	Water quality sample collected in February 2022 in lieu of third quarter sampling at owner's request.	✓	N	N	No property access.
FRANCO 383	221383	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
FULTZ	212447	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in July 2022. Water level not measured due to obstruction in well.
GARNER 557	558557	WLO	Y	N	Well identified for water level measurements only. Water level measured in February 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
GARNER 635	587635	NS	Y	N	Water level measured in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
GOAR RANCH	610695	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
HOBAN	805290	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	✓	Y	Y	Water quality sample collected in July 2022.
HOWARD NR	NR	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
HOWARD 312	221312	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
KEEFER	209744	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
LADD 251	520251	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
LADD 538	503538	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
LADD 635	224635	WLO	N	N	Well identified for water level measurements only. Water level not measured due to no port in wellhead.	WLO	N	N	Water level not measured due to no port in wellhead.
LADD 837	519837	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
LADD 977	642977	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
MARCELL	NR	NS	N	N	Well is not scheduled for first quarter monitoring.	NS	N	N	Well is not scheduled for third quarter annual monitoring.
MCCONNELL 265	539265	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.

TABLE 2
Summary of Groundwater Monitoring in 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
MCCONNELL 459	221459	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
METZLER	35-71891	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
MOORE	538847	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
NESS	509127	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	N	Water quality sample collected in July 2022. Water level not measured due to obstruction in well.
NOTEMAN	212483	NS	N	N	Well is not scheduled for first quarter monitoring.	NS	N	N	Well is not scheduled for third quarter annual monitoring.
NSD-02	527587	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
NSD-03	527586	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	N	N	Well is dry.
NWC-02	562944	✓	Y	Y	Water quality sample collected in February 2022.	✓	N	Y	Water quality sample collected in July 2022. Water level not measured due to obstruction in well.
NWC-03 CAP	627684	WLO	N	N	Well is dry.	WLO	N	N	Well is dry.
NWC-04	551849	✓	N	Y	Water quality sample collected in February 2022. Water level not measured due to obstruction in well.	✓	N	Y	Water quality sample collected in July 2022. Water level not measured due to obstruction in well.
NWC-06	575700	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
OLMOS	224745	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
OSBORN	643436	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 port in wellhead.
PALMER	578819	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	Y	Water quality sample collected in July 2022. Water level not measured due to inaccessible wellhead.
PANAGAKOS	35-76413	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
PARRA	576415	NS	N	N	Well is not scheduled for first quarter monitoring.	NS	N	N	Well is not scheduled for third quarter annual monitoring.
PIONKE 395	613395	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
PIONKE 517	221517	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
POOL	509518	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	No property access.

TABLE 2
Summary of Groundwater Monitoring in 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
POWER 639	222639	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
RAMIREZ	216425	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.
RAY	803772	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
ROGERS 596	573596	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
ROGERS 803	641803	✓	N	N	Well is dry.	✓	N	N	Well is dry.
ROGERS E	216018	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
RUIZ	531770	✓	N	N	Well is capped and has been replaced by RUIZ 146.	✓	N	N	Well is capped and has been replaced by RUIZ 146.
RUIZ 146	232146	✓	Y	Y	Well replaced RUIZ. Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
SCHWARTZ	210865	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in July 2022.
STEPHENS	808560	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
SWAN	NR	NS	N	N	Well owner has declined participation in well sampling program.	✓	N	N	Well owner has declined participation in well sampling program.
TERRY	229470	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	No property access.
TERRY 101	234101	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	N	N	No property access.
THOMPSON 151	612151	WLO	N	N	Well identified for water level measurements only. Water level not measured due to obstruction in well.	WLO	N	N	Well identified for water level measurements only. Unable to measure water level due to obstruction.
THOMPSON 341	218341	NS	Y	N	Water level measured in January 2022 because THOMPSON 151 was obstructed.	✓	Y	Y	Water quality sample collected in July 2022.
TM-02A	522574	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
TM-06 MILLER	522695	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
TM-07	522576	✓	Y	Y	Water quality sample collected in February 2022.	✓	Y	Y	Water quality sample collected in August 2022.
TM-10 USBP	522696	✓	Y	Y	Water quality sample collected in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.

TABLE 2
Summary of Groundwater Monitoring in 2022

Well Name	ADWR 55 Registry Number	Semiannual Sampling First Quarter Schedule	1Q 2022			Annual Sampling Third Quarter Schedule	3Q 2022		
			Water Level Measured?	Water Sample Collected?	Status		Water Level Measured?	Water Sample Collected?	Status
TM-15 MILLER	522699	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
TM-16	522578	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
TM-19A	522580	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
TM-42	562554	WLO	Y	N	Well identified for water level measurements only. Water level measured in March 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in September 2022.
TVI 236	802236	✓	Y	N	Unable to sample due to inoperable pump. Water level measured in February 2022.	✓	Y	N	Unable to sample due to inoperable pump. Water level measured in August 2022.
TVI 713	567713	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in August 2022.
TVI 875	568875	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 port in wellhead.
WEED	544535	✓	N	Y	Water quality sample collected in February 2022. Water level not measured due to no port in wellhead.	✓	N	Y	Water quality sample collected in July 2022. Water level not 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 2022.	WLO	Y	N	Well identified for water level measurements only. Water level measured in July 2022.
WEISKOPF 897	220897	NS	N	N	Well is not scheduled for first quarter monitoring.	✓	Y	Y	Water quality sample collected in July 2022.
ZANDER	205126	WLO	Y	N	Well identified for water level measurements only. Water level measured in January 2022.	✓	Y	Y	Water quality sample collected in July 2022.

Notes:

35-71891 = ADWR 35

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	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
ANDERSON 396	613396	3/20/08	7.25	21.1	1176	431
		5/5/08	7.03	21.8	1231	452
		7/14/08	7.11	21.6	1260	472
		10/15/08	7.10	21.3	1252	475
		1/27/09	7.27	21.0	965	488
		4/14/09	7.12	21.8	1229	534
		7/14/09	7.03	22.2	1372	550
		10/12/09	6.98	21.5	1375	510
		1/27/10	7.93	20.1	1449	523
		4/21/10	7.40	20.7	1439	627
		7/19/10	6.93	24.1	1420	648
		10/19/10	7.03	20.6	1229	416
		1/17/11	7.02	20.6	1334	562
		4/11/11	6.92	15.1	1485	609
		7/14/11	7.23	24.4	1451	678
		10/11/11	6.65	21.2	1230	543
		2/1/12	7.28	11.8	1360	551
		4/25/12	7.10	23.9	1380	657
		7/12/12	6.89	24.9	1520	667
		10/10/12	7.40	24.0	1414	574
4/7/14	7.06	17.4	1057	175		
7/11/14	7.35	21.4	1033	272		
10/6/14	7.13	27.5	974	99.0		
10/6/14 DUP	7.13	27.5	974	102.0		
ANDERSON 458	221458	9/9/12	8.34	25.9	406.3	31
		10/10/12	8.13	23.8	412.3	30.3
		1/17/13	8.06	23.7	416.0	30.9
		4/15/13	8.19	23.5	402.7	32.3
		7/18/13	8.18	24.3	401.9	23
		10/16/13	8.10	23.8	400.1	25.2
		1/9/14	8.15	22.9	399.3	26.2
		1/9/14 DUP	8.15	22.9	399.3	26.2
		4/7/14	8.16	24.0	401.6	27.5
		7/11/14	8.13	24.5	396.7	25.3
		10/6/14	8.06	25.6	384.0	26.0
		7/22/15	8.17	25.2	397.3	25.3
		7/19/16	8.14	23.8	395.2	24.2
		7/18/17	8.01	23.9	395.5	26.8
		7/18/18	7.88	24.2	397.1	23.4
		7/11/19	7.85	24.1	396.2	22.4
		7/22/20	8.01	24.6	394.6	24.0
		7/27/21	8.03	23.8	396.9	22.2
		7/11/22	8.05	26.3	392.6	22.6
		AWC-02	616586	1/7/08	ND	ND
3/3/08	ND			ND	ND	16
5/5/08	ND			ND	ND	13.3
8/12/08	7.01			22.3	630	14.3
10/23/08	7.31			23.1	464	15.9
3/11/09	7.19			21.8	420	15.5
4/22/09	7.17			22.6	430	14.7
7/22/09	7.24			22.7	444	14.2
10/21/09	7.19			21.3	468	16.8
2/3/10	7.44			19.7	449	18.6
4/23/10	7.56			19.7	526	18.3
7/20/10	7.27			23.9	450	18.2
11/4/10	7.72			21.3	465.9	18.8
1/19/11	7.84			19.0	500	18.4
4/7/11	7.27			20.3	488.5	17.3
7/13/11	5.93			23.9	431.5	12.9
10/13/11	6.72			25.1	464.6	17.4
10/13/11 DUP	6.72			25.1	464.6	17.4
2/2/12	7.20			20.8	479.5	19.4
4/24/12	7.23			23.0	430	15.5
7/5/12	7.25			22.1	437.1	10.1
10/18/12	7.48			21.6	473.6	13.0
2/5/13	7.54			19.3	448.9	18.0
4/11/13	7.53			22.1	471.3	17.2
7/25/13	7.35			22.1	460.5	14.7
10/9/13	7.53			21.2	476.4	15.5
1/7/14	7.45			20.3	503.7	18.8
1/7/14 DUP	7.45			20.3	503.7	18.9
5/14/14	7.34			21.0	508.4	19.2
7/16/14	7.54			21.8	499.5	19.2
10/15/14	7.26			23.2	520	18.9
1/29/15	7.44			21.4	511	20.5
7/21/15	7.62			22.5	506.7	19.9
1/13/16	7.63			20.6	411.2	8.27
7/19/16	7.40			22.1	418.7	7.80
1/19/17	7.33			20.5	428.7	9.87
9/6/17	7.4			20.7	423.3	7.65
1/17/18	7.26			20.5	442.6	13.0
7/25/18	7.33			20.5	489.9	16.7
7/25/18 DUP	7.33			20.5	489.9	16.9
1/13/20	7.39	20.6	516.0	20.5		
8/13/20	7.29	21.0	519.3	16.3		
1/4/21	7.27	20.8	543.6	16.6		
7/20/21	7.11	20.1	538.3	18.6		
1/31/22	7.20	19.9	552.9	16.0		
1/31/22 DUP	7.20	19.9	552.9	16.0		
7/18/22	7.43	25.2	505.9	15.4		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-03	616585	1/7/08	ND	ND	ND	41
		3/3/08	ND	ND	ND	38
		5/5/08	ND	ND	ND	37.3
		8/12/08	7.28	22.4	469	38.8
		10/23/08	7.48	21.0	462	41.8
		3/11/09	7.25	21.2	445	64.2
		4/22/09	7.30	21.4	452	42.4
		7/22/09	7.39	22.6	456	41.8
		10/21/09	7.48	21.3	540	50.5
		2/3/10	7.44	19.7	449	42.0
		4/23/10	7.57	19.7	468	44.4
		7/20/10	7.29	23.8	460	46.7
		11/4/10	7.80	20.8	452.3	46.3
		1/19/11	7.07	19.6	560	49
		4/7/11	7.28	19.9	469.8	46.8
		7/13/11	6.33	23.1	458.8	47.6
		7/13/11 DUP	6.33	23.1	458.8	46.2
		10/13/11	6.69	23.8	463.6	48.8
		2/2/12	7.39	20.7	504.8	47.7
		4/24/12	7.28	22.1	450	51.8
		7/5/12	7.32	21.7	474.3	50.7
		10/18/12	7.44	21.3	477.4	51.3
		2/5/13	7.73	19.2	481.2	55
		4/11/13	7.51	22.2	486.4	66.1
		7/16/13	7.61	21.5	489.6	63.6
		10/9/13	7.57	20.5	485.8	49.4
		10/9/13 DUP	7.57	20.5	485.8	51
		1/7/14	7.62	20.4	486.3	56.6
		5/14/14	7.64	20.5	493.0	61.1
		7/16/14	7.68	21.4	506.9	69.1
		10/15/14	7.38	22.2	506.0	63.4
		1/29/15	7.59	21.2	495	77.1
		7/21/15	7.63	21.6	494	55.5
		1/13/16	7.62	19.9	474.1	43.5
		7/19/16	7.47	20.9	493.2	54.8
		1/19/17	7.41	20.0	480.4	57.1
		9/6/17	7.41	20.3	525.5	75.1
		1/17/18	7.25	19.9	487.6	57.0
		7/25/18	7.36	20.3	504.5	76.3
		1/16/19	7.33	20.1	500.8	75.7
7/23/19	7.29	20.0	506.7	68.6		
1/13/20	7.64	19.3	513.9	74.4		
8/3/20	7.38	20.8	512.7	77.2		
1/4/21	7.42	20.7	523.7	73.6		
7/20/21	7.24	20.1	518.7	87.2		
1/31/22	7.35	19.7	517.8	68.8		
7/18/22	7.61	22.5	527.3	74.3		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-04	616584	2/4/08	ND	ND	ND	18
		4/7/08	ND	ND	ND	18
		6/2/08	ND	ND	ND	14.3
		8/12/08	7.08	22.5	458	21.6
		10/23/08	6.91	22.2	616	24
		3/11/09	7.02	21.3	539	27.2
		4/22/09	6.93	22.1	560	26.1
		7/22/09	7.13	22.5	587	26.2
		10/21/09	7.00	21.2	607	25.7
		2/3/10	7.35	19.3	438	16.3
		4/23/10	7.14	19.2	625	27.4
		7/20/10	7.02	24.1	600	26.6
		11/4/10	7.41	20.3	593.2	24
		1/19/11	8.15	20.5	690	26.2
		4/7/11	7.00	20.4	637.2	25.8
		7/13/11	6.88	20.4	610.1	25.7
		10/13/11	6.38	24.0	619.7	27.6
		2/2/12	6.97	20.1	637.6	27.2
		4/24/12	7.10	22.1	570	25.2
		7/5/12	7.03	21.6	568.0	28.2
		7/5/12 DUP	7.03	21.6	568.0	28.1
		10/18/12	7.20	20.8	606.7	26.6
		2/5/13	7.29	19.7	616.8	26.9
		4/11/13	7.38	21.7	595.4	26.2
		7/16/13	7.30	21.0	585.7	27.0
		10/9/13	7.36	20.4	588.6	24.6
		1/7/14	7.36	19.7	651.4	23.7
		5/14/14	7.38	19.8	674.2	22.7
		7/16/14	7.32	20.7	632.2	24.1
		7/16/14 DUP	7.32	20.7	632.2	22.9
		10/15/14	7.01	21.9	688	21.4
		1/29/15	7.20	21.0	687	22.9
		7/21/15	7.38	21.2	619.6	23.2
		1/13/16	7.42	19.2	556.6	27.0
		7/19/16	7.24	20.6	590.7	31.4
		1/19/17	7.06	19.6	658.6	22.9
		1/19/17 DUP	7.06	19.6	658.6	23.1
		9/6/17	7.17	19.8	571.0	25.8
		1/17/18	7.13	19.6	532.6	38.6
		7/25/18	6.99	19.3	663.1	24.3
		1/16/19	6.99	19.4	706.8	20.7
		7/23/19	7.06	19.5	591.8	24.2
		1/13/20	7.38	19.5	715.2	22.5
		8/3/20	6.92	20.0	731.5	23.2
		2/9/21	7.01	19.1	732.1	23.9
		2/9/21 DUP	7.01	19.1	732.1	23.3
		7/20/21	6.87	19.1	720.7	25.8
		1/31/22	6.98	18.9	756.6	24.9
		7/18/22	7.15	21.5	684.9	27.3

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
AWC-05	590620	2/4/08	ND	ND	ND	13
		4/7/08	ND	ND	ND	14
		6/2/08	ND	ND	ND	14.3
		8/12/08	6.74	23.3	425	14.9
		10/23/08	7.45	21.0	422	15.4
		3/11/09	7.31	22.1	398	16.5
		6/3/09	7.33	22.0	418	12.1
		7/22/09	7.49	24.4	423	14.1
		10/21/09	7.37	21.1	433	16.5
		2/3/10	7.35	19.3	438	16.3
		4/23/10	7.62	18.9	443	17.6
		7/20/10	7.62	24.2	440	19.1
		11/4/10	7.92	20.7	427.1	18.4
		1/19/11	7.64	20.3	420	17
		4/7/11	7.22	20.8	438.3	17.6
		7/13/11	6.52	22.9	419.8	17.9
		10/13/11	6.82	26.0	427.5	19
		2/2/12	7.35	21.4	427.9	19.5
		4/24/12	7.18	21.4	430	15.4
		7/5/12	7.24	22.6	432.1	19.1
		10/18/12	7.66	22.6	436.1	20.1
		2/5/13	7.57	20.2	437.7	20.1
		4/11/13	7.54	21.2	444.5	20.3
		7/16/13	7.56	21.3	454.5	18.0
		7/16/13 DUP	7.56	21.3	454.5	17.7
		10/9/13	7.58	21.3	455.3	15.4
		5/14/14	7.54	21.2	442.3	19.8
		7/16/14	7.60	22.6	470.9	20.3
		10/15/14	7.38	23	452	20.8
		1/29/15	7.64	19.6	443	18.0
		7/21/15	7.67	21.9	457.9	17.0
		1/13/16	7.69	19.9	444.4	14.4
		7/19/16	7.40	22.2	443.1	20.7
		1/19/17	7.45	21.4	436.7	21.9
		9/6/17	7.38	20.9	447.4	19.7
		9/6/17 DUP	7.38	20.9	447.4	20.5
		1/17/18	7.34	20.5	437.0	20.2
		7/25/18	7.35	20.4	456.9	17.9
		1/16/19	7.39	21.0	441.6	19.3
		1/13/20	7.81	18.8	448.2	20.2
8/3/20	7.41	21.6	446.8	19.4		
1/4/21	7.41	21.2	456.6	18.7		
1/4/21 DUP	7.41	21.2	456.6	18.4		
7/20/21	7.28	20.6	448.6	23.3		
1/31/22	7.45	20.7	445.9	18.4		
7/18/22	7.57	23.4	448.9	23.2		
2/27/08	7.53	21.8	980	44		
5/12/08	7.40	22.1	1021	65.2		
7/21/08	7.43	22.9	1034	82.2		
10/13/08	7.28	21.7	980	53		
1/21/09	7.66	21.6	872	164		
4/8/09	7.56	22.7	933	47		
7/9/09	7.59	23.1	871	70.9		
10/7/09	7.50	22.2	838	67.7		
2/25/10	7.56	21.1	1020	50.5		
4/20/10	7.71	22.8	1013	53.9		
7/20/10	7.70	23.2	828.3	71.5		
10/20/10	7.60	22.4	948.7	73.4		
1/17/11	7.73	20.6	1038	53.5		
4/5/11	7.66	21.5	965.0	64.5		
7/11/11	7.72	25.4	890.0	68.8		
10/12/11	7.88	21.2	1551	172		
1/31/12	7.69	20.2	1017	64.3		
1/31/12 DUP	7.69	20.2	1017	64.9		
4/11/12	7.77	22.0	1025	64.0		
7/6/12	7.66	23.7	940	78.6		
7/6/12 DUP	7.66	23.7	940	77.9		
10/4/12	7.73	22.0	845.4	62.6		
1/18/13	7.82	21.9	832.4	70.5		
4/8/13	7.87	20.7	861.7	62.9		
7/9/13	8.04	22.9	769.1	67.9		
10/15/13	7.59	21.7	1158	79.6		
1/14/14	7.77	20.9	967.4	75.2		
4/8/14	7.47	21.4	1337	113		
7/8/14	7.58	22.3	1175	107		
7/8/14 DUP	7.58	22.3	1175	110		
10/21/14	7.37	22.7	1158	91.3		
7/24/15	7.67	22.6	1002	76.3		
7/12/16	7.59	22.2	1029	68.7		
7/26/17	7.45	20.9	1012	88.6		
7/30/18	7.40	21.0	987.6	66.6		
7/11/19	7.27	22.2	933.8	67.6		
8/13/20	7.34	21.8	931.5	66.1		
7/20/21	7.42	21.6	990.8	69.6		
7/11/22	7.49	21	920.7	61.0		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BF-01	539783	5/23/08	6.41	18.3	2698	1450
		8/5/08	6.11	22.4	3095	1330
		11/5/08	6.33	19.9	3027	1490
		2/20/09	6.42	19.2	1477	1330
		5/6/09	5.98	23.9	2632	1280
		8/17/09	6.21	29.7	2948	1250
		11/4/09	6.24	23.0	2846	1280
		3/1/10	6.34	21.1	2945	1260
		4/7/10	5.83	20.4	1853	1450
		7/6/10	5.93	22.6	1403	1310
		7/13/11	6.26	21.3	2960	1350
		2/1/12	6.18	19.8	2910	1480
		8/14/12	6.00	21.5	3000	1500
BIMA	577927	2/6/08	6.69	22.2	1335	210
		4/25/08 ¹	6.37	23.1	1521	190
		5/13/08 ¹	6.58	22.7	1489	195
		6/23/08 ¹	6.30	23.3	1572	225
		6/23/08 DUP	6.30	23.3	1572	196
		7/29/08 ¹	6.44	23.0	1647	204
		8/28/08 ¹	M	23.0	1776	256
		9/23/08 ¹	6.29	23.0	1741	296
		10/22/08	6.41	22.3	1801	285
		1/20/09	6.40	21.7	1233	190
		1/20/09 DUP	6.40	21.7	1233	200
		4/7/09	6.45	23.4	1436	212
		7/8/09	6.31	23.4	1483	189
		10/5/09	6.34	22.7	1525	233
		1/20/10	6.88	17.0	M	222
		4/19/10	6.70	21.9	1533	256
		7/12/10	6.70	24.0	1577	273
		10/18/10	6.47	24.3	1702	296
		1/19/11	6.65	21.2	1672	283
		4/4/11	6.61	24.0	1643	282
		8/25/11	6.27	25.9	1460	300
		10/10/11	6.5	24.1	1520	322
		2/3/12	6.48	18.5	1540	312
		4/23/12	6.57	23.9	1790	303
		7/10/12	6.06	23.7	1200	301
		11/29/12	6.51	20.6	1664	310
		3/13/13	7.29	19.8	1175	317
		4/10/13	6.64	13.9	1569	308
		7/8/13	6.62	28.0	1580	301
		10/11/13	6.57	21.8	1749	301
		1/10/14	6.63	10.7	1664	297
		4/10/14	6.62	15.8	1685	300
		7/8/14	6.56	21.6	1653	297
		10/23/14	6.25	23.9	1704	227
		7/23/15	6.87	26.2	1627	271
		7/15/16	6.90	28.7	1602	271
		7/27/17	6.84	25.4	1553	304
		7/11/19	6.75	28.2	1514	240
		7/20/21	6.93	24.5	1396	200
		BLOMMER	633472	2/5/08	7.43	20.2
4/21/08 ¹	7.06			21.9	753	201
5/15/08 ¹	7.16			22.2	845	211
6/23/08 ¹	6.93			21.5	903	193
7/29/08 ¹	7.21			22.2	921	203
8/27/08 ¹	7.12			22.1	864	189
9/23/08 ¹	7.16			22.3	818	193
10/22/08	7.17			21.3	873	200

TABLE 3

Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-1G	909474	8/27/08	7.09	24.2	808	107
		11/11/08	7.00	20.8	721	143
		2/25/09	7.01	22.0	860	109
		4/28/09	7.04	22.2	762	198
		8/4/09	7.23	22.8	950	104
		10/27/09	7.11	21.9	922	103
		2/17/10	7.36	20.5	899.3	98.4
		4/15/10	7.04	22.2	711	95.2
		7/7/10	6.91	21.5	640	88.1
		7/7/10 DUP	6.91	21.5	640	87.1
		2/10/11	6.80	21.0	916	105
		7/12/11	7.2	26.6	1015	121
		2/8/12	7.02	20.2	869	116
		8/14/12	6.97	21.9	959	120
		2/14/13	7.09	21.2	986	112
		8/14/13	6.96	21.6	1009	120
		2/13/14	6.76	21.1	1010	114
		7/22/14	6.87	22.0	1010	117
		2/4/15	7.35	22.1	942	116
		9/10/15	7.21	21.8	953	109
		3/3/16	7.16	22.1	950	108
		8/17/16	7.05	22.2	986	121
		3/1/17	6.99	22.1	923	110
		7/24/17	7.11	22.2	925	112
		2/14/18	7.08	20.9	924	112
		7/10/18	7.24	22.2	920	115
		2/5/19	7.15	21.4	920	99.5
		7/31/19	7.15	22.2	907	100
		2/5/20	7.19	21.7	914	105
		8/12/20	7.26	22.1	897	93.2
2/2/21	7.21	21.3	878	92.6		
7/14/21	7.18	21.9	875	91.7		
1/31/22	7.03	19	865	96.7		
7/14/22	7.11	21.9	887	96.5		
BMO-2008-3B	909147	7/18/08	7.35	23.9	615	106
		11/4/08	7.36	21.4	599	179
		11/4/08 DUP	7.36	21.4	599	177
		2/19/09	7.24	21.4	664	155
		5/11/09	7.23	22.1	631	149
		8/6/09	7.33	21.4	718	151
		8/6/09 DUP	7.33	21.4	718	156
		10/26/09	7.32	21.8	684	153
		3/3/10	7.38	21.4	695	164
		4/8/10	6.47	21.3	585	162
		7/1/10	6.92	21.4	541	157
		2/14/11	6.98	20.6	698	169
		7/12/11	7.04	21.4	672	148
		2/23/12	6.92	21.0	695	173
		7/10/12	7.02	21.5	651	150
		2/15/13	6.63	20.4	692	163
		8/27/13	7.1	21.1	725	170
		2/11/14	7.01	20.7	729	162
		7/21/14	6.98	21.0	706	163
		2/5/15	7.11	21.2	652	145
		9/14/15	7.29	21.7	638	133
		3/3/16	7.29	21.8	637	136
		8/18/16	7.18	21.4	637	139
		3/1/17	6.99	21.0	618	135
		7/26/17	7.17	21.5	648	147
		2/8/18	7.46	21.0	653	150
		7/10/18	7.35	21.9	663	154
		2/5/19	7.41	21.2	703	169
		2/5/19 DUP	7.41	21.2	703	173
		8/6/19	7.29	22.2	727	165
2/6/20	7.57	21.0	655	150		
8/12/20	7.39	21.6	647	132		
2/2/21	7.38	21.8	644	130		
7/27/21	7.29	21.6	670	147		
1/31/22	7.26	20.3	672	150		
8/1/22	7.3	21.9	735	181		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-4B	910096	12/11/08	7.34	22.8	374	9.4
		2/18/09	7.17	23.2	370	13.4
		4/30/09	7.33	24.5	376	11.4
		4/30/09 DUP	7.33	24.5	376	11.8
		8/6/09	7.53	24.6	397	11.5
		10/27/09	7.53	23.7	379	11.2
		2/24/10	7.48	21.8	362	9.7
		4/16/10	7.70	23.4	330	9.73
		7/2/10	7.25	23.6	323	10.10
		2/15/11	7.65	22.2	362	8.90
		7/22/11	7.33	23.7	371	10.2
		2/23/12	7.21	22.3	354	10.5
		8/15/12	6.96	23.6	380	9.5
		1/15/13	7.63	22.7	370.2	10.3
		1/15/13 DUP	7.63	22.7	370.2	9.5
		4/15/13	7.75	23.0	368.2	11.2
		9/18/13	7.69	23.4	384.6	9.8
		1/9/14	7.81	22.2	371.4	11.1
		7/18/14	7.78	23.3	379.1	11.6
		9/30/17	7.43	22.6	392.5	9.88
		7/26/18	7.43	22.6	386.1	10.9
		7/22/19	7.53	22.8	377.1	11.2
		7/22/19 DUP	7.53	22.8	377.1	11.2
8/11/20	7.50	23.5	372.9	10.7		
7/22/21	7.53	22.7	378.1	12.0		
8/1/22	7.61	23.2	381.2	17.0		
BMO-2008-5B	909653	9/30/08	7.08	22.0	688	193
		2/18/09	7.03	21.5	691	192
		4/27/09	7.32	22.1	605	177
		8/4/09	7.35	22.3	724	174
		10/29/09	7.29	21.8	731	181
		10/29/09 DUP	7.29	21.8	731	185
		2/15/10	7.22	21.7	720	185
		4/15/10	7.21	23.0	571	194
		7/7/10	6.94	22.2	551	183
		10/5/10	6.85	22.3	722	201
		2/14/11	6.90	21.8	725	203
		5/12/11	7.06	21.5	722	195
		7/13/11	6.99	22.0	712	200
		12/7/11	6.95	19.9	730	213
		2/3/12	7.16	20.2	726	215
		4/18/12	6.96	21.7	712	192
		7/10/12	6.87	21.5	726	218
		10/16/12	6.69	21.4	712	207
		2/7/13	7.40	21.4	771.4	229
		2/12/13	6.49	20.7	752	227
		5/15/13	7.01	21.8	742	220
		8/20/13	7.00	21.7	792	226
		11/1/13	6.92	21.5	792	233
		2/11/14	6.88	21.5	804	230
		5/7/14	6.87	21.5	800	228
		8/19/14	6.99	21.6	795	221
		11/13/14	6.92	21.9	755	228
		2/3/15	7.05	21.8	755	227
		9/8/15	7.16	22.3	764	236
		3/14/16	7.06	21.5	774	237
		9/14/16	7.22	21.8	771	240
		3/1/17	7.07	21.5	756	243
		8/1/17	7.05	22	779	245
		2/8/18	7.28	21.4	798	267
		3/8/18	7.3	21.4	792	246
		3/8/18 DUP	7.3	21.4	792	246
		4/11/18	7.25	21.4	814	240
		5/29/18	7.31	22.1	811	262
		6/19/18	7.26	22.3	817	252
		7/25/18	7.02	23.0	794	250
		2/4/19	7.06	21.6	802	238
		8/7/19	7.09	22.3	814	239
		2/6/20	7.12	21.5	812	258
8/11/20	7.07	23.0	785	240		
2/2/21	7.04	21.8	818	246		
7/12/21	7.12	22.2	849	257		
1/31/22	6.96	22.2	858	280		
7/11/22	6.92	22.2	844	288		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-5M	909552	10/2/08	7.13	23.6	551	107
		2/18/09	7.06	22.5	562	122
		4/27/09	7.50	22.9	501	111
		8/4/09	7.53	23.1	605	122
		10/29/09	7.35	22.4	610	123
		2/15/10	7.31	22.5	581	123
		4/16/10	7.28	22.6	509	125
		4/16/10 DUP	7.28	22.6	509	124
		7/7/10	7.02	23.5	482	123
		10/5/10	6.81	22.5	602	127
		2/14/11	6.95	22.2	591	124
		5/12/11	7.16	23.0	558	119
		7/12/11	7.22	22.7	590	126
		12/7/11	7.1	21.2	601	129
		2/3/12	6.99	21.5	589	130
		4/18/12	6.71	22.4	587	120
		7/10/12	6.82	22.4	592	135
		10/16/12	6.86	21.9	591	134
		2/12/13	6.65	21.6	610	139
		5/15/13	6.73	22.4	603	135
		8/20/13	7.18	22.5	640	138
		11/1/13	7.07	22.0	641	142
		2/11/14	6.84	22.1	646	138
		5/7/14	6.85	22.1	648	140
		8/19/14	6.97	22.1	645	143
		11/13/14	7.18	22.6	612	139
		2/3/15	7.26	22.5	612	143
		9/8/15	7.19	23.1	615	146
		3/14/16	7.26	22.5	618	142
		9/14/16	7.12	22.5	623	153
		3/1/17	6.97	22.4	621	157
		8/1/17	7.11	22.8	636	159
		2/8/18	7.26	22.4	646	168
		7/25/18	7.22	23.2	651	161
		2/4/19	7.40	22.1	654	155
		8/7/19	7.32	23.0	659	152
		2/6/20	7.32	22.2	662	169
		8/11/20	7.23	22.8	668	156
		2/2/21	7.17	22.6	672	164
		7/12/21	7.41	22.9	676	171
1/31/22	7.13	22.8	699	184		
7/1/22	7.23	22.8	693	178		
7/16/08	7.36	24.1	475	53.3		
11/4/08	7.41	21.5	398	60.3		
2/19/09	7.23	21.1	444	54.3		
4/27/09	7.55	21.7	389	52.7		
8/4/09	7.48	23.4	470	48.5		
10/26/09	7.29	22.5	448	48.7		
2/15/10	7.53	21.2	391	33.5		
4/15/10	7.47	21.0	362	37.0		
7/1/10	7.24	22.2	361	40.1		
10/5/10	7.05	21.0	407	37.2		
2/14/11	7.27	21.8	397	40.2		
5/12/11	7.32	21.5	380	35.0		
7/12/11	7.27	21.1	390	37.8		
12/7/11	7.28	20.8	330	21.8		
2/3/12	7.28	20.1	346	23.0		
4/18/12	7.25	21.4	336	19.7		
7/10/12	6.86	21.2	328	21.9		
10/16/12	6.79	21.5	342	19.9		
2/12/13	6.87	20.7	339	16.2		
5/15/13	6.87	21.2	297	12.7		
8/20/13	7.36	21.5	310	10.6		
11/1/13	7.04	21.0	340	13.9		
2/11/14	7.38	21.6	290	20.1		
5/7/14	7.48	21.1	297	13.6		
8/19/14	7.08	21.6	298	13.4		
11/13/14	7.23	21.6	305	14.9		
2/3/15	7.24	20.6	272	12.1		
9/8/15	7.26	22.2	282	11.8		
3/14/16	7.47	21.9	267	12.4		
9/14/16	7.46	21.8	301	12.6		
3/1/17	7.37	21.4	271	12.1		
7/10/17	7.52	22.1	291	11.7		
2/8/18	7.26	20.9	284	13.3		
7/10/18	7.78	22.2	296	18.2		
2/4/19	7.38	21.6	280	10.7		
8/6/19	7.64	22.1	237	8.00		
2/3/20	7.25	21.3	264	8.60		
7/22/20	7.12	21.9	258	6.88		
2/2/21	7.39	21.6	264	<15.0		
7/12/21	7.22	22.0	282	7.55		
1/31/22	7.11	21.8	292	8.90		
7/1/22	7.09	22.2	290	10.20		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-6M	909019	7/10/08	M	22.1	702	182
		11/4/08	7.33	21.8	621	199
		2/20/09	7.11	22.0	702	193
		4/28/09	7.34	22.4	595	119
		8/4/09	7.40	23.3	750	189
		10/26/09	7.18	22.4	727	187
		2/15/10	7.29	20.8	733	193
		4/15/10	7.36	20.2	619	208
		7/1/10	7.15	22.0	571	198
		10/5/10	6.87	21.3	720	202
		2/14/11	6.80	21.3	731	202
		5/12/11	7.12	21.9	709	189
		7/12/11	7.06	21.8	709	194
		12/7/11	6.94	21.3	710	200
		2/3/12	7.03	21.2	720	206
		4/18/12	7.01	21.4	701	188
		7/10/12	6.67	21.4	702	208
		10/16/12	6.89	21.8	708	207
		2/12/13	6.71	20.5	740	204
		5/8/13	7.01	21.9	726	212
		8/20/13	6.99	21.7	772	213
		11/1/13	6.83	21.5	773	223
		2/11/14	6.81	21.8	786	217
		5/7/14	6.77	21.3	788	220
		8/19/14	6.9	21.9	774	210
		11/13/14	7.14	22.0	740	218
		2/3/15	7.20	21.9	741	216
		9/8/15	7.09	23.0	750	222
		3/14/16	7.16	22.1	768	229
		9/14/16	7.06	22.2	760	229
		3/1/17	6.92	21.9	745	237
		7/10/17	7.04	22.6	742	218
		2/8/18	7.3	21.8	775	244
		7/10/18	7.26	22.1	761	234
		2/4/19	7.35	22.0	753	209
		8/6/19	7.18	22.4	755	199
		2/3/20	7.25	21.8	751	216
		7/22/20	7.22	22.1	752	206
		2/2/21	7.16	22.0	740	199
		7/12/21	7.16	22.2	740	204
1/31/22	7.05	22.5	748	208		
7/11/22	7.09	22.5	754	207		
BMO-2008-7M	908794	7/14/08	7.63	25.2	500	31.4
		11/6/08	7.53	22.6	380	34.5
		2/18/09	7.31	23.3	452	27.6
		5/11/09	7.43	24.4	426	26.0
		8/6/09	7.81	24.1	486	25.1
		10/27/09	7.53	23.0	470	26.1
		2/17/10	7.57	23.4	452	25.4
		2/17/10 DUP	7.57	23.4	452	25.0
		4/15/10	7.52	23.2	415	26.0
		7/6/10	7.28	23.5	391	22.8
		2/14/11	7.18	22.0	465	27.5
		2/14/11 DUP	7.18	22.0	465	26.4
		7/15/11	7.1	22.8	466	26.5
		1/30/12	7.16	22.0	454	26.4
		7/11/12	7.18	22.7	455	28.1
		2/15/13	7.23	21.8	471	25.8
		8/28/13	7.15	22.9	494	27.7
		8/28/13 DUP	7.15	22.9	494	27.8
		2/13/14	7.09	22.6	494	27.8
		7/22/14	7.13	23.2	488	27.3
		9/14/15	7.51	23.4	469	30.6
		8/18/16	7.43	23.3	457	30.0
		7/10/17	7.36	23.5	464	33.1
		7/23/18	7.36	23.5	464	34.7
		8/8/19	7.77	23.6	478	35.5
		8/8/19 DUP	7.77	23.6	478	35.1
		7/23/20	7.61	23.0	483	37.2
		8/2/21	7.53	23.1	487	36.9
		7/18/22	7.41	23.3	505	40.0

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	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
		2/19/09	6.19	21.0	2958	1570
		5/5/09	6.18	21.3	2888	1370
		8/10/09	6.42	21.5	2897	1250
		11/9/09	6.33	21.8	2889	1510
		11/9/09 DUP	6.33	21.8	2889	1520
		3/3/10	6.51	20.4	3016	1320
		4/16/10	6.06	21.4	1682	1470
		7/1/10	6.10	21.4	1594	1440
		7/15/11	6.21	21.2	2940	1380
		1/30/12	6.22	21.2	2880	1480
		1/30/12 DUP	6.22	21.2	2880	1480
		7/12/12	6.41	21.1	2860	1440
		2/13/13	6.25	20.7	2830	1330
		8/12/13	6.38	21.3	2780	1420
		7/24/14	6.26	21.2	2520	1380
		7/10/17	6.69	22.2	1540	1240
8/8/19	6.50	22.2	2640	1130		
8/2/21	6.71	23.2	2550	1130		
BMO-2008-8M	909711	12/9/08	7.16	23.4	852	197
		2/19/09	7.27	23.5	758	147
		2/19/09 DUP	7.27	23.5	758	149
		5/5/09	7.19	25.1	680	122
		8/10/09	7.49	24.8	673	107
		11/5/09	7.30	25.4	675	104
		3/3/10	7.70	24.1	641	99.5
		4/16/10	7.29	24.5	541	97.0
		7/1/10	6.99	25.0	502	94.7
		1/24/11	7.05	23.4	595	98.2
		7/15/11	6.89	22.1	590	79.9
		1/30/12	7.36	23.9	565	77.6
		7/12/12	7.15	24.2	554	73.1
		7/12/12 DUP	7.15	24.2	554	73.2
		2/14/13	7.1	24.3	565	64.9
		8/12/13	7.19	24.6	585	65.0
		2/19/14	7.07	24.3	579	63.3
		2/19/14 DUP	7.07	24.3	579	63.4
		7/24/14	7.07	24.7	569	66.8
		9/15/15	7.35	25.0	541	67.0
		9/15/16	7.52	24.6	535	63.5
		9/15/16 DUP	7.52	24.6	535	63.9
		7/10/17	7.28	24.7	542	74.1
		7/23/18	7.48	24.8	536	76.9
		7/23/18 DUP	7.48	24.8	536	74.5
		8/8/19	7.63	25.2	542	66.8
		7/23/20	7.48	24.8	547	74.3
8/2/21	6.79	24.6	1908	795		
8/2/21 DUP	6.79	24.6	1908	797		
7/18/22	6.69	24.4	1310	1050		
8/8/08	7.72	25.7	415	47.3		
11/5/08	7.89	21.4	444	54.4		
2/26/09	7.71	24.5	482	28.8		
5/12/09	7.76	24.8	449	51.7		
8/17/09	7.76	25.6	534	53.4		
11/3/09	7.82	24.9	552	56.9		
3/4/10	8.07	22.4	520	58.6		
4/6/10	6.74	23.8	484	60.1		
7/1/10	7.40	24.6	425	61.0		
2/10/11	6.79	24.0	520	64.2		
7/15/11	7.56	24.3	516	67.0		
2/1/12	7.54	22.4	516	67.4		
7/12/12	7.68	24.2	513	68.9		
2/13/13	7.37	23.8	531	68.2		
8/12/13	7.47	24.2	553	71.1		
2/18/14	7.26	23.8	569	74.1		
7/24/14	7.36	24.4	571	74.2		
9/14/15	7.68	24.7	550	85.6		
9/15/16	7.64	24.4	571	86.7		
7/11/17	7.57	24.5	572	92.0		
7/26/18	7.66	24.4	584	97.2		
8/12/19	7.59	24.5	584	91.7		
7/20/20	7.68	24.7	602	97.0		
8/18/21	7.66	24.9	602	105		
7/18/22	7.78	24.6	616	108		
BMO-2008-9M	909255	8/8/08	7.72	25.7	415	47.3
		11/5/08	7.89	21.4	444	54.4
		2/26/09	7.71	24.5	482	28.8
		5/12/09	7.76	24.8	449	51.7
		8/17/09	7.76	25.6	534	53.4
		11/3/09	7.82	24.9	552	56.9
		3/4/10	8.07	22.4	520	58.6
		4/6/10	6.74	23.8	484	60.1
		7/1/10	7.40	24.6	425	61.0
		2/10/11	6.79	24.0	520	64.2
		7/15/11	7.56	24.3	516	67.0
		2/1/12	7.54	22.4	516	67.4
		7/12/12	7.68	24.2	513	68.9
		2/13/13	7.37	23.8	531	68.2
		8/12/13	7.47	24.2	553	71.1
		2/18/14	7.26	23.8	569	74.1
		7/24/14	7.36	24.4	571	74.2
		9/14/15	7.68	24.7	550	85.6
		9/15/16	7.64	24.4	571	86.7
		7/11/17	7.57	24.5	572	92.0
7/26/18	7.66	24.4	584	97.2		
8/12/19	7.59	24.5	584	91.7		
7/20/20	7.68	24.7	602	97.0		
8/18/21	7.66	24.9	602	105		
7/18/22	7.78	24.6	616	108		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
BMO-2008-10GL	909435	8/20/08	6.22	29.5	2924	1320		
		11/5/08	6.47	25.3	2573	1290		
		2/25/09	6.34	26.8	2646	1180		
		5/12/09	6.35	26.2	2402	1120		
		8/11/09	6.52	27.3	2661	1030		
		11/2/09	6.52	26.7	2565	1100		
		3/4/10	6.76	24.1	2937	1080		
		4/8/10	6.03	25.6	1575	1260		
		7/2/10	6.16	26.3	1338	1020		
		7/13/11	6.32	24.8	1726	644		
		2/2/12	6.45	24.8	1600	624		
		7/13/12	6.71	25.7	1571	545		
		2/18/13	6.45	25.4	1530	498		
		2/18/13 DUP	6.45	25.4	1530	494		
		8/13/13	6.57	25.5	1586	520		
		8/7/14	6.56	25.8	1417	442		
		7/11/17	6.14	25.6	3790	1810		
		8/1/19	6.20	25.7	3860	1770		
		8/17/21	6.20	25.3	3870	1960		
		BMO-2008-10GU	909272	8/4/08	6.41	23.6	3660	2210
11/5/08	6.15			20.2	3343	1890		
2/25/09	5.96			22.7	3426	1740		
5/6/09	5.99			23.2	3359	1710		
8/11/09	6.28			22.5	3348	1690		
11/2/09	6.27			21.8	3157	1730		
3/10/10	6.67			19.1	3951	1700		
4/7/10	5.96			20.4	3210	1510		
7/6/10	5.90			21.8	1610	1670		
7/13/11	6.12			22.3	3890	1670		
2/1/12	6.09			19.2	3820	1870		
8/19/13	6.10			21.0	3630	1780		
8/9/17	6.06			20.4	3860	1990		
8/9/17 DUP	6.06			20.4	3860	1960		
8/1/19	6.11			21.3	3900	1830		
8/17/21	6.06			20.7	3920	2080		
BMO-2008-11G	909434			8/22/08	8.02	28.2	359	14.2
				11/12/08	7.96	24.2	257	13.9
				2/26/09	7.92	25.1	319	12.3
				4/28/09	8.14	25.5	273	11.8
		8/12/09	8.24	25.3	365	11.2		
		11/9/09	8.03	25.5	339	13.9		
		3/1/10	8.37	23.2	338	13.0		
		4/9/10	6.88	24.5	301	13.0		
		7/1/10	6.97	25.4	298	12.3		
		2/10/11	6.99	24.0	327	11.7		
		7/22/11	7.26	24.6	331	12.1		
		7/22/11 DUP	7.26	24.6	331	12.0		
		1/31/12	7.41	24.1	328	11.9		
		8/14/12	7.35	24.6	337	12.3		
		2/13/13	7.54	24.2	343	11.9		
		8/27/13	7.48	24.9	363	12.2		
		2/19/14	7.51	24.2	363	12.2		
		8/14/14	7.58	24.7	360	12.4		
		2/5/15	7.87	24.8	334	12.5		
		9/14/15	7.78	25.3	335	12.3		
		9/14/15 DUP	7.78	25.3	335	12.4		
		3/15/16	7.76	24.9	334	12.2		
		8/17/16	7.96	25.6	332	12.6		
		3/2/17	7.59	24.8	328	12.5		
		7/11/17	7.85	25.4	333	12.4		
		2/12/18	7.96	24.4	341	13.1		
		7/12/18	7.89	25.4	339	13.3		
		1/28/19	7.99	25.2	338	12.2		
		8/6/19	7.88	25.4	338	12.2		
		2/4/20	7.88	24.7	341	13.3		
		8/13/20	7.92	25.3	340	11.9		
		8/13/20 DUP	7.92	25.3	340	8.16		
		2/2/21	7.91	24.7	338	12.5		
		7/22/21	7.86	25.5	341	12.6		
		2/1/22	7.81	24.8	348	13.2		
		2/1/22 DUP	7.81	24.8	348	13.3		
8/1/22	7.88	25.6	351	12.7				

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2008-13B	909551	10/3/08	6.49	21.6	2180	980
		2/17/09	6.51	20.9	1941	1000
		5/6/09	6.55	22.0	1891	930
		8/5/09	6.63	21.5	2137	950
		10/28/09	6.81	19.7	2259	1010
		2/16/10	6.87	20.8	2093	997
		4/14/10	6.38	21.2	1346	974
		7/6/10	6.37	21.8	1208	972
		7/15/11	6.44	20.8	2160	1010
		2/9/12	6.68	20.3	2180	1060
		7/11/12	6.55	21.2	2190	1080
		2/27/13	6.54	20.3	2160	1090
		9/4/13	6.57	20.8	2070	1050
		8/19/14	6.63	21.2	1890	1070
		8/2/17	6.67	21.2	2130	1050
		8/20/19	6.68	21.5	2190	1050
		8/16/21	6.67	21.9	2220	1110
BMO-2008-13M	909760	12/3/08	7.73	24.1	1463	494
		2/17/09	8.21	22.7	1340	441
		4/29/09	8.04	24.8	1126	217
		8/5/09	8.04	25.4	1392	387
		10/28/09	8.12	21.4	1347	403
		2/16/10	8.07	24.9	1297	375
		4/13/10	8.06	23.2	1130	398
		7/2/10	8.30	23.9	1027	386
		7/15/11	8.4	23.4	1331	388
		2/6/12	8.47	23.2	1300	ND
		8/13/12	8.75	24.2	1311	397
		2/15/13	8.8	22.4	1280	383
		9/6/13	8.81	23.8	1300	402
		8/20/14	8.48	23.6	1362	410
		8/15/17	8.42	24.7	1305	386
		8/20/19	8.78	23.9	1299	388
		8/16/21	8.73	24.3	1326	418
BMO-2010-1M	219957	9/9/10	7.82	24.6	727.0	150
		11/11/10	8.68	19.9	570	98
		2/11/11	8.15	20.8	589	138
		5/12/11	7.74	23.0	710	129
		8/31/11	7.74	23.2	562	154
		12/13/11	7.63	21.3	713	149
		2/8/12	7.69	22.0	605	158
		4/24/12	7.08	23.4	701	150
		7/9/12	6.37	24.3	715	161
		10/17/12	7.40	23.9	699	154
		2/13/13	7.09	22.2	712	152
		5/8/13	7.12	22.5	725	160
		8/15/13	7.39	23.5	767	156
		11/4/13	7.38	22.6	774	163
		2/12/14	8.33	22.0	672	161
		6/2/14	7.55	23.3	771	165
		8/4/14	7.38	23.8	772	179
		11/12/14	7.43	23.4	733	165
		9/9/15	7.59	24.2	729	170
		8/25/16	7.93	23.3	646	169
		7/12/17	7.70	24.0	715	180
		8/7/18	7.85	23.8	751	169
		7/30/19	7.54	24.0	732	173
7/20/20	7.75	24.0	771	187		
7/15/21	7.68	24.0	762	183		
7/26/22	7.65	23.9	788	200		
BMO-2010-2M	219958	9/15/10	6.66	22.6	2054	915
		11/11/10	6.97	20.6	1800	935
		2/10/11	6.53	20.8	2120	950
		5/13/11	6.54	21.1	2160	887
		7/14/11	6.62	21.5	2160	917
		12/13/11	6.59	20.3	2140	984
		1/30/12	6.41	21.4	2180	989
		4/18/12	6.48	21.2	2170	893
		7/9/12	6.41	21.8	2190	1030
		10/17/12	6.60	21.3	2200	998
		2/13/13	6.45	21.0	2190	962
		5/8/13	6.42	21.0	2160	996
		8/15/13	6.58	21.2	2157	978
		11/4/13	6.53	21.9	2120	998
		2/12/14	6.52	21.0	2160	1000
		5/8/14	6.46	21.0	1990	1010
		8/14/14	6.48	21.0	1940	1040
		8/14/14 DUP	6.48	21.0	1940	1030
		11/12/14	6.59	21.3	2210	939
		7/12/17	6.6	22.2	2160	967
7/30/19	6.67	22.1	2190	894		
7/15/21	6.70	21.7	2150	927		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2010-3B	219970	7/29/10	7.48	23.1	420	16.0
		11/10/10	7.43	21.2	370	14.9
		1/20/11	7.44	20.9	416.1	14.4
		4/7/11	7.38	20.1	424.6	14.9
		7/13/11	7.68	22.3	404.5	13.8
		10/13/11	7.63	23.4	411.2	15.9
		2/2/12	7.52	20.4	400.2	16.9
		2/2/12 DUP	7.52	20.4	400.2	17.1
		4/24/12	7.30	21.8	390	16.0
		7/5/12	7.51	22.4	419.1	15.7
		10/18/12	7.58	21.6	411.9	17.0
		1/16/13	7.58	20.8	420.5	17.4
		4/16/13	7.65	21.2	415.1	17.5
		7/23/13	7.67	21.8	420	19.8
		10/8/13	7.72	20.9	420.3	16.8
		1/15/14	7.65	20.2	431.2	18.8
		5/13/14	7.66	21.0	421.2	18.0
		5/13/14 DUP	7.66	21.0	421.2	18.0
		7/15/14	7.63	21.8	419.1	19.0
		10/14/14	7.48	22.6	395	17.4
		10/14/14 DUP	7.48	22.6	395	18.1
		1/28/15	7.59	22.2	420	19.2
		7/22/15	7.67	21.8	420	20.7
		2/2/16	7.67	18.9	407.5	16.1
		7/12/16	7.59	21.0	424.9	16.8
		1/18/17	7.45	20.5	413.9	18.8
		7/11/17	7.40	20.7	424.6	16.5
		1/8/18	7.42	20.4	415.7	21.8
		1/8/18 DUP	7.42	20.4	415.7	21.1
		7/10/18	7.44	20.5	428.1	16.0
		1/8/19	7.42	20.2	418.6	19.5
		7/16/19	7.41	20.5	424.5	26.0
		7/16/19 DUP	7.41	20.5	424.5	25.8
1/6/20	7.67	20.2	425.7	21.0		
8/4/20	7.45	21.4	427.1	19.3		
1/5/21	7.48	20.8	425.4	22.9		
7/13/21	7.43	20.4	433.4	20.9		
7/13/21 DUP	7.43	20.4	433.4	21.2		
1/24/22	7.48	20.0	420.8	22.0		
7/19/22	7.41	22.2	430	20.1		
BMO-2010-3M	219969	7/31/10	7.73	24.3	390	14.8
		11/10/10	7.66	21.8	340	12.6
		11/10/10 DUP	7.66	21.8	340	12.7
		1/20/11	7.72	22.6	380.4	11.5
		4/7/11	7.38	23.5	376.5	12.3
		8/25/11	7.17	24.3	340	10.4
		10/13/11	7.73	23.6	375.8	10.5
		2/2/12	7.68	22.0	367.1	10.6
		4/24/12	7.49	23.9	370	10.1
		7/5/12	7.66	23.7	381.8	10.3
		10/18/12	7.71	23.3	379.9	10.4
		1/16/13	7.68	22.1	383.1	10.0
		4/16/13	7.83	22.3	383.7	10.2
		4/16/13 DUP	7.83	22.3	383.7	10.2
		7/23/13	7.80	23.4	386.0	10.7
		10/8/13	7.76	22.8	384.8	9.4
		1/15/14	7.76	22.1	389.8	9.1
		5/13/14	7.75	22.9	387.1	10.4
		7/15/14	7.74	23.1	386.9	10.2
		10/14/14	7.57	24.1	367.0	10.8
		1/28/15	7.70	24.1	391	10.6
		7/22/15	7.79	23.5	383.9	8.64
		7/22/15 DUP	7.79	23.5	383.9	9.25
		2/2/16	7.83	19.8	367.5	8.46
		7/12/16	7.75	22.7	383.3	10.1
		1/18/17	7.54	22.2	382.3	9.97
		7/11/17	7.52	22.6	384.8	8.97
		1/8/18	7.52	22.2	379.7	9.69
		7/10/18	7.55	22.1	389.2	9.17
		1/8/19	7.42	22.0	378.4	8.97
		7/16/19	7.53	22.4	385.6	8.97
		1/6/20	7.69	21.2	369.3	9.01
		1/6/20 DUP	7.69	21.2	369.3	9.07
8/4/20	7.53	23.1	388.6	8.98		
1/5/21	7.54	22.7	384.1	9.23		
7/13/21	7.55	22.2	391.6	11.3		
7/13/21	7.55	22.2	391.6	9.50		
1/24/22	7.56	21.8	379.5	9.50		
7/19/22	7.53	25.8	391	9.41		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2012-1M	221388	11/13/12	7.55	21.3	933.7	231
		2/27/13	6.97	22.4	793	205
		5/8/13	6.77	22.9	814	197
		8/14/13	7.09	22.9	858	202
		11/1/13	6.98	22.4	850	210
		2/13/14	7.00	22.2	883	214
		5/8/14	6.90	22.9	875	207
		7/22/14	6.99	22.6	857	210
		11/13/14	7.10	22.6	839	208
		2/4/15	7.40	22.5	843	214
		9/10/15	7.29	23.3	862	216
		3/3/16	7.32	23.4	888	222
		8/17/16	7.15	23.3	928	222
		3/2/17	6.98	23.1	922	236
		3/2/17 DUP	6.98	23.1	922	228
		7/24/17	7.08	23.0	938	250
		8/21/17	7.14	22.8	944	221
		2/13/18	7.24	22.7	960	237
		7/16/18	7.33	23.4	960	236
		1/29/19	7.25	22.6	956	215
		7/31/19	7.22	23.3	959	213
		2/4/20	7.25	22.8	954	223
		7/21/20	7.22	23.1	960	217
		2/18/21	7.13	22.9	960	213
		7/14/21	7.19	23.3	964	221
		2/1/22	7.1	22.6	981	235
7/19/22	7.14	23.5	992	235		
BMO-2014-1BL	917394	11/7/14	7.21	24.2	716	160
		1/29/15	7.46	22.2	686	167
		4/15/15	7.43	21.9	695.0	167
		7/29/15	7.57	22.8	695.0	149
		10/7/15	7.55	21.6	685.9	156
		10/7/15 DUP	7.55	21.6	685.9	156
		2/4/16	7.66	20.2	675.4	146
		4/6/16	7.43	21.7	696.3	152
		7/14/16	7.47	21.9	690.7	151
		11/2/16	7.28	21.6	689.9	143
		1/24/17	7.29	21.4	684.6	156
		7/13/17	7.26	21.6	687.5	158
		1/10/18	7.24	21.5	685.3	159
		7/12/18	7.25	21.7	693.4	163
		1/10/19	7.15	21.8	683.6	158
		7/18/19	7.15	22.5	691.5	150
		1/8/20	7.52	23.9	701.7	163
		3/9/21	7.3	21.8	719.3	160
		7/15/21	7.29	21.2	721.0	178
		1/26/22	7.26	21.0	726.1	164
7/21/22	7.29	22.2	739.3	132		
BMO-2014-1BU	917393	11/13/14	21.8	22.1	571	84
		1/28/15	7.45	21.6	694	170
		4/15/15	7.40	21.3	735.2	189
		7/29/15	7.55	22.3	729.7	165
		10/7/15	7.51	20.9	728.8	182
		2/4/16	7.51	20.1	715.7	163
		4/6/16	7.47	21.0	733.5	172
		7/14/16	7.45	21.6	724.8	170
		7/14/16 DUP	7.45	21.6	724.8	169
		11/2/16	7.29	20.9	719.5	155
		1/24/17	7.28	20.5	722.8	178
		7/13/17	7.27	20.8	736.4	184
		1/10/18	7.25	20.5	694.3	158
		7/12/18	7.24	20.7	730.3	181
		1/10/19	7.16	20.4	729.9	172
		1/10/19 DUP	7.16	20.4	729.9	175
		7/18/19	7.15	20.5	717.9	170
		1/8/20	7.36	19.2	703.5	169
		8/6/20	7.23	21.2	732.1	168
		1/7/21	7.24	21.0	718.1	185
		7/15/21	7.30	20.2	733.1	161
		1/26/22	7.25	20.1	741.6	170
		7/21/22	7.38	21.5	737.8	165
7/21/22 DUP	7.38	21.5	737.8	163		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2014-2BL	917452	11/20/14	7.34	22.8	804	210
		1/29/15	7.36	20.8	1109	463
		4/15/15	7.27	21.2	1169	463
		7/29/15	7.34	22.5	1191	452
		10/7/15	7.41	20.8	1180	467
		2/4/16	7.38	19.7	1164	434
		2/4/16 DUP	7.38	19.7	1164	428
		4/6/16	7.43	21.2	1187	456
		7/14/16	7.27	21.9	1182	437
		11/2/16	7.18	20.8	1184	422
		1/24/17	7.11	21.3	1170	453
		9/6/17	7.08	20.7	1197	441
		1/10/18	7.10	20.5	1167	448
		7/12/18	7.12	20.4	1186	445
		1/10/19	7.07	20.4	1168	470
		7/18/19	7.01	20.4	1178	433
		1/8/20	7.37	18.1	1147	454
		8/6/20	7.08	21.1	1187	421
		1/7/21	7.09	20.8	1154	481
		7/15/21	7.15	20.3	1174	420
1/26/22	7.04	20.2	1161	397		
7/21/22	7.20	21.3	1181	400		
BMO-2014-2BU	917453	12/1/14	7.35	20.8	819.2	230
		1/30/15	7.65	19.9	524	63.8
		4/15/15	7.56	20.7	536.1	64.8
		7/29/15	7.62	22.2	538.7	58.2
		10/7/15	7.74	20.6	541.1	62.0
		2/4/16	7.58	19.8	528.0	56.5
		4/6/16	7.58	21.7	539.3	58.6
		7/14/16	7.56	21.4	536.6	59.9
		11/2/16	7.39	20.2	535.9	55.8
		1/24/17	7.36	20.1	531.2	61.0
		7/13/17	7.38	20.1	536.9	60.1
		1/10/18	7.35	19.8	525.4	57.0
		7/12/18	7.37	20.1	537.5	55.6
		1/10/19	7.31	19.8	534.0	55.2
		7/18/19	7.27	19.8	544.3	54.9
		1/8/20	7.53	18.6	535.4	58.6
		8/6/20	7.35	20.6	551.0	56.4
		1/7/21	7.35	20.4	539.3	58.2
		7/15/21	7.40	19.8	545.4	84.9
		1/26/22	7.30	19.6	538.3	60.9
7/21/22	7.55	20.8	545.2	65.1		
BMO-2014-3BL	917527	2/13/15	7.34	22.4	384	7.84
		4/15/15	7.72	21.6	402.3	8.73
		7/29/15	7.72	23.1	413.7	7.92
		10/7/15	7.64	21.6	415.6	8.51
		2/4/16	7.62	20.9	409.8	8.36
		4/6/16	7.62	21.9	424.9	8.62
		7/14/16	7.62	22.7	419.4	8.77
		11/2/16	7.40	21.4	423.2	7.98
		1/25/17	7.38	21.4	406.4	8.37
		7/13/17	7.37	21.7	423.3	8.69
		1/12/18	7.31	21.3	402.0	8.25
		1/12/18	7.31	21.3	402.0	8.25
		7/12/18	7.42	21.5	423.0	7.71
		1/10/19	7.29	21.4	412.3	7.73
		7/18/19	7.31	21.5	413.5	7.45
		1/9/20	7.58	20.0	414.7	8.31
		8/6/20	7.33	22.3	415.1	7.59
		1/7/21	7.33	22.0	415.3	7.63
		7/15/21	7.36	21.3	412.6	10.0
		1/27/22	7.12	21.0	404.8	7.83
8/1/22	7.64	24.3	416.4	8.80		
BMO-2014-3BU	917494	2/24/15	7.64	18.2	471.4	8.22
		4/15/15	7.67	20.4	469.5	8.71
		7/29/15	7.62	21.9	471.9	7.46
		10/7/15	7.62	20.4	467.9	7.82
		2/4/16	7.64	19.7	466.4	7.68
		4/6/16	7.53	20.9	473.2	8.25
		7/14/16	7.56	21.3	465.9	8.57
		11/2/16	7.40	20.0	471.1	7.79
		1/25/17	7.36	20.0	458.1	8.06
		7/13/17	7.34	20.2	472.9	8.55
		1/12/18	7.28	20.0	457.5	8.06
		7/12/18	7.35	20.0	470.0	7.95
		1/10/19	7.28	19.9	470.2	7.54
		7/18/19	7.28	20.0	474.2	7.63
		1/9/20	7.57	17.8	471.2	8.00
		8/6/20	7.31	20.7	478.8	7.18
		1/7/21	7.31	20.6	478.1	7.04
		7/15/21	7.35	19.9	477.1	9.35
		1/27/22	7.12	19.8	466.9	7.08
		8/1/22	7.63	21.3	481.7	8.16

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2014-4B	917620	3/4/15	7.68	20.3	524.0	64.7
		4/14/15	7.61	20.9	494.7	61.7
		7/23/15	7.60	21.7	493.7	57.2
		10/6/15	7.70	20.5	481.9	52.7
		2/3/16	7.74	19.8	491.1	58.2
		4/5/16	7.61	20.9	491.9	53.2
		7/13/16	7.55	21.3	478.3	48.0
		7/13/16 DUP	7.55	21.3	478.3	48.3
		11/1/16	7.58	20.6	472.7	42.5
		11/1/16 DUP	7.58	20.6	472.7	42.1
		1/23/17	7.42	20.4	493.0	63.6
		7/12/17	7.41	20.5	483.0	56.7
		1/9/18	7.39	20.3	490.9	64.7
		7/11/18	7.38	20.3	467.7	47.4
		1/9/19	7.36	20.2	490.2	62.1
		7/17/19	7.36	20.3	494.9	62.8
		1/7/20	7.66	18.1	492.5	63.9
		8/5/20	7.26	21.2	487.7	56.2
		1/6/21	7.44	20.9	484.0	54.3
		7/14/21	7.38	20.2	472.9	80.1
1/25/22	7.42	20.0	479.1	49.8		
7/20/22	7.44	23.5	476.2	53.4		
BMO-2014-4BL	917619	3/1/15	7.63	21.1	671.9	165
		4/14/15	7.63	21.4	665.1	184
		7/23/15	7.66	21.9	669.7	185
		7/23/15 DUP	7.66	21.9	669.7	169
		10/6/15	7.71	20.9	660.4	176
		2/3/16	7.69	20.1	660.2	165
		4/5/16	7.53	21.2	671.7	171
		7/13/16	7.51	21.5	653.5	165
		11/1/16	7.47	20.9	665.8	160
		1/23/17	7.37	20.6	672.1	182
		7/12/17	7.42	20.7	674.4	178
		1/9/18	7.36	20.5	681.5	183
		7/11/18	7.32	20.6	687.8	187
		1/9/19	7.36	20.4	701.1	193
		7/17/19	7.30	20.5	720.3	192
		1/7/20	7.61	19.1	725.6	206
		8/5/20	7.21	21.4	687.8	166
		1/6/21	7.39	21.1	642.0	153
		7/14/21	7.34	20.3	612.8	182
		1/25/22	7.39	20.3	615.3	135
7/20/22	7.46	22.8	606.9	132		
BMO-2015-1B	917622	3/15/15	8.11	20.2	676.3	175
		4/14/15	7.59	20.9	680.1	187
		7/23/15	7.68	21.7	690.7	201
		10/6/15	7.66	20.6	681.9	190
		2/3/16	7.64	19.8	678.5	173
		4/5/16	7.57	20.5	691.4	181
		7/13/16	7.52	21.2	675.3	172
		11/1/16	7.44	20.4	683.6	163
		1/23/17	7.43	20.4	692.6	193
		7/12/17	7.44	20.5	697.6	190
		1/9/18	7.36	20.3	703.1	203
		7/11/18	7.39	20.3	705.9	194
		1/9/19	7.32	20.3	711.9	208
		7/17/19	7.32	20.3	726.4	203
		1/7/20	7.45	18.3	719.8	210
		8/5/20	7.34	21.0	725.0	206
		1/6/21	7.33	20.7	718.2	213
		7/14/21	7.36	20.0	728.2	192
		1/25/22	7.35	19.5	721.3	193
		7/20/22	7.56	21.3	733.7	196
BMO-2015-1BL	917621	3/12/15	7.70	20.8	708.2	221
		4/14/15	7.55	20.7	733.4	239
		7/23/15	7.62	22.3	747.3	259
		10/6/15	7.74	20.8	747.3	232
		2/3/16	7.71	19.2	736.1	219
		2/3/16 DUP	7.71	19.2	736.1	215
		4/5/16	7.58	21.0	767.1	231
		7/13/16	7.49	21.6	763.8	231
		11/1/16	7.41	20.6	770.0	221
		1/23/17	7.39	20.5	769.1	249
		7/12/17	7.37	20.6	780.5	253
		1/9/18	7.38	20.5	784.5	251
		7/11/18	7.35	20.5	791.5	253
		1/9/19	7.30	20.4	800.5	259
		7/17/19	7.29	20.4	797.7	255
		1/7/20	7.38	19.6	787.0	261
		8/5/20	7.31	21.2	820.1	266
		1/6/21	7.30	21.7	818.6	277
		3/9/21	7.35	20.8	839.6	260
		7/14/21	7.32	20.2	840.4	268
1/25/22	7.26	20.0	824.8	262		
7/20/22	7.48	21.4	845.9	255		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
BMO-2015-2B	917827	3/19/15	7.43	20.0	795.2	288
		4/14/15	7.41	20.7	832.4	271
		7/23/15	7.47	22.2	847.5	292
		10/6/15	7.60	20.9	844.3	262
		2/3/16	7.48	20.4	823.2	247
		4/5/16	7.44	21.4	849.8	258
		7/13/16	7.33	21.8	837.2	250
		11/1/16	7.26	20.6	848.1	247
		1/23/17	7.26	20.5	849.6	268
		7/12/17	7.27	20.4	847.9	273
		1/9/18	7.25	20.2	841.9	276
		7/11/18	7.17	20.4	856.9	261
		1/9/19	7.19	20.1	873.3	277
		7/17/19	7.16	20.3	875.0	270
		1/7/20	7.45	17.4	864.6	277
		8/5/20	7.22	21.1	884.1	299
		1/6/21	7.18	20.7	877.4	289
		7/14/21	7.15	20.1	895.6	270
		1/25/22	7.18	19.9	898.3	266
		1/25/22 DUP	7.18	19.9	898.3	273
7/20/22	7.33	21	916.2	274		
BMO-2015-2BL	917828	3/26/15	7.29	22.3	887.1	280
		4/14/15	7.38	20.9	860.0	305
		7/23/15	7.43	22.1	902.3	323
		10/6/15	7.54	21.2	890.3	304
		2/3/16	7.45	20.5	884.7	278
		4/5/16	7.42	21.3	903.9	296
		4/5/16 DUP	7.42	21.3	903.9	292
		7/13/16	7.33	21.8	903.7	296
		11/1/16	7.24	20.8	905.7	282
		1/23/17	7.25	20.6	909.8	315
		7/12/17	7.23	20.7	921.0	317
		1/9/18	7.19	20.5	915.5	320
		7/11/18	7.14	20.5	923.8	307
		1/9/19	7.15	20.3	924.6	320
		7/17/19	7.11	20.5	942.6	318
		1/7/20	7.14	17.1	918.0	323
		8/5/20	7.13	21.2	946.2	327
		8/5/20 DUP	7.13	21.2	946.2	333
		1/6/21	7.13	20.9	941.5	336
		7/14/21	7.11	20.3	957.5	307
1/25/22	7.11	20.1	944.2	309		
7/20/22	7.3	21.8	980.3	311		
BOOTH	914931	1/5/13	7.67	18.5	574.3	91.4
		6/14/13	7.61	51.1	604.2	95
		6/14/13 DUP	7.61	51.1	604.2	92.5
		7/17/13	7.75	23.2	497.6	75
		10/18/13	7.66	19.3	597.6	92.6
BURKE	212268	2/7/08	7.17	23.0	411	29.5
		4/22/08	7.13	27.0	423	26
		8/5/08	7.06	26.8	496	21.9
		10/20/08	7.57	26.0	466	20.5
		2/11/09	7.23	25.0	363	23.9
		4/28/09	7.16	26.1	369	24.2
		8/19/09	7.36	26.7	486	22.5
		12/16/09	7.28	25.7	488	26
		3/2/10	7.56	12.3	432	23.8
		4/22/10	7.49	16.4	452	24.8
		7/21/10	7.56	25.6	423.7	33.1
		10/10/13	7.87	21.9	469.6	27.5
		1/8/14	8.17	10.9	464.9	28.6
		4/16/14	7.80	21.1	471.0	28.3
		7/21/14	8.19	27.8	448.8	29.6
		10/21/14	8.06	22.2	456.0	29.1
		8/3/15	7.72	27.4	479.3	27.2
		7/21/16	7.98	26.4	478.0	28.6
		7/21/16 DUP	7.98	26.4	478.0	28.5
		7/25/17	7.91	23.5	475.3	31.7
		7/26/18	7.51	27.4	480.8	30.5
		7/9/19	7.48	26.2	487.1	30.8
		8/11/20	7.57	28.0	491.2	34.3
7/29/21	7.77	23.8	483.3	31.5		
7/7/22	7.77	27.1	478.5	30.6		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
CHAMBERS	629807	3/6/08	7.73	17.8	408	7.7
		5/5/08	7.15	22.1	421	6
		7/14/08	7.43	23.2	434	5.8
		10/15/08	7.41	22.5	420	4
		1/27/09	7.57	21.5	312	5.3
		4/14/09	7.42	22.4	384	6.8
		7/15/09	7.83	23.4	414	4.3
		10/13/09	7.41	22.6	410	6.5
		1/26/10	7.31	21.3	416	5.7
		4/23/10	7.47	20.9	427.5	8.34
		7/21/10	7.49	23.1	430	7.75
		10/19/10	8.00	23.0	440	7.04
		1/18/11	7.47	22.4	390	7.30
		4/11/11	7.18	22.0	427.3	7.74
		7/18/11	7.18	23.8	420.2	8.18
		10/12/11	7.33	22.6	425.8	7.8
		2/6/12	7.43	21.8	434.6	9.08
		4/23/12	7.46	22.7	460	8.84
		7/17/12	7.31	22.4	410	8.41
		10/8/12	7.44	22.4	430.0	10.1
		1/10/13	7.57	21.5	440.8	9.64
		4/18/13	7.49	21.7	434.1	9.78
		7/15/13	7.40	22.7	434.6	9.81
		7/15/13 DUP	7.40	22.7	434.6	10.2
		10/10/13	7.51	21.8	439.7	10.3
		1/13/14	7.56	21.0	431.3	10.7
		4/14/14	7.48	22.2	435.9	10.9
		7/10/14	7.50	22.9	436.4	11.0
10/17/14	7.31	22.5	456.0	10.8		
7/21/15	7.48	22.7	447.7	11.4		
7/14/16	7.49	22.8	459.8	13.2		
7/25/17	7.34	21.3	450.4	13.2		
7/10/19	7.27	28.0	417.7	6.88		
COB MW-1	903992	2/22/08	6.93	21.2	1401	720
		5/20/08	6.88	22.0	2050	980
		7/30/08	6.88	21.7	1780	730
		10/23/08	6.95	21.2	1690	750
		2/12/09	6.92	21.1	1313	750
		4/21/09	7.15	22.7	1366	720
		7/22/09	6.94	21.6	1570	680
		7/22/09 DUP	6.94	21.6	1570	730
		10/22/09	6.81	22.3	1582	820
		2/4/10	7.04	21.1	1653	680
		4/20/10	6.92	21.8	1836	783
		7/13/10	7.02	22.3	2004	919
		7/14/11	6.78	21.4	1924	927
		7/12/12	6.74	23.4	1760	805
		2/5/13	6.95	21.5	1773	877
		7/11/13	7.17	21.4	1858	842
		7/9/14	6.95	21.5	2000	1000
		7/9/14 DUP	6.95	21.5	2000	1020
7/27/15	6.96	21.6	1993	902		
COB MW-1B	225906	7/20/16	6.63	21.8	2405	1210
		7/19/17	6.51	20.9	2474	1160
		7/24/19	6.70	20.6	1793	827
		7/21/21	6.75	20.8	1790	918
		7/21/21 DUP	6.75	20.8	1790	844
		8/3/22	6.96	22.3	1808	804

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COB MW-2	903984	5/20/08	7.32	21.2	490	40.5
		7/30/08	7.34	20.8	511	37.6
		10/23/08	7.36	20.3	498	34.9
		2/12/09	7.35	20.2	379	35.6
		4/23/09	7.33	21.8	431	34
		7/22/09	7.36	21.3	483	33.5
		10/22/09	7.24	21.0	454	32.2
		3/3/10	7.55	19.7	450	33.5
		4/26/10	7.28	21.3	479.6	34.8
		7/13/10	6.91	21.2	479.5	30.4
		7/13/10 DUP	6.91	21.2	479.5	30.6
		1/20/11	7.47	20.7	440	29.6
		7/14/11	7.11	21.1	472.6	29.8
		1/31/12	7.53	20.3	466.6	30.0
		7/12/12	7.36	21.2	630	29.2
		1/9/13	7.48	20.0	473.5	35.8
		7/25/13	7.34	20.9	485.4	40.6
		1/6/14	7.58	19.9	487.8	40.5
		7/9/14	7.52	20.5	503.5	43.7
		2/4/15	7.38	20.3	619	40.5
		7/27/15	7.57	20.8	514.6	40.3
		7/27/15 DUP	7.57	20.8	514.6	41.6
		1/11/16	7.54	19.5	510.6	41.2
		7/20/16	7.52	20.0	523.7	41.6
		1/19/17	7.40	19.5	525.8	41.5
		7/19/17	7.29	19.5	548.6	39.6
		1/11/18	7.26	19.3	552.3	36.1
		7/17/18	7.28	19.4	572.5	32.6
		1/15/19	7.26	19.2	578.3	26.0
		7/24/19	7.19	19.2	598.4	24.6
		1/14/20	7.53	18.7	578.3	24.8
		8/11/20	7.25	19.9	600.6	23.2
		1/12/21	7.21	19.7	591.2	23.6
7/21/21	7.15	19.3	599.7	26.4		
2/8/22	7.34	19.1	610.6	21.6		
8/3/22	7.42	20.2	618	23.5		
COB MW-3	906823	2/28/08	7.39	21.0	416	57.8
		3/27/08	ND	ND	ND	57.7
		4/30/08	ND	ND	ND	37
		5/20/08	7.56	22.3	473	35.8
		7/24/08	ND	ND	ND	64.9
		7/30/08	7.64	22.3	541	67.3
		10/9/08	ND	ND	ND	52.5
		10/23/08	7.43	20.8	507	76.6
		2/12/09	7.35	21.1	432	112
		4/23/09	7.35	22.6	407	43.7
		7/22/09	7.38	21.5	460	52.3
		10/22/09	7.40	21.3	466	74.2
		10/22/09 DUP	7.40	21.3	466	73.9
		3/3/10	7.36	21.1	480	102
		4/26/10	7.35	22.0	497.9	77.6
		7/13/10	7.41	21.7	456.7	46.5
		7/14/11	7.19	21.8	440.0	40.1
		7/12/12	7.34	21.4	450	39.5
		2/5/13	7.60	20.4	476.4	65.1
		2/5/13 DUP	7.60	20.4	476.4	64.7
		7/25/13	7.42	21.4	485.0	66.6
		7/9/14	7.61	21.4	525.3	90.9
		7/27/15	7.56	21.6	560.3	105
		7/20/16	7.48	20.4	507.4	72.7
		7/19/17	7.34	20.2	529.5	84.1
		7/17/18	7.37	20.0	528.5	92.7
		7/24/19	7.38	19.7	498.8	68.5
		8/11/20	7.48	20.4	485.8	59.0
		7/21/21	7.33	19.7	534.5	95.8
		8/3/22	7.50	20.8	555.4	91.3

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COB WL	593116	2/22/08	6.99	20.6	919	90
		3/24/08	ND	ND	ND	98.2
		4/28/08	ND	ND	ND	98.7
		5/20/08	7.30	21.9	1053	98
		7/30/08	7.17	22.0	1098	97.1
		7/30/08	ND	ND	ND	100
		10/15/08	ND	ND	ND	107
		10/23/08	7.23	21.4	1075	104
		2/12/09	6.98	20.6	814	94
		4/23/09	7.29	22.2	923	98
		7/22/09	7.17	22.5	1037	97.3
		10/22/09	7.17	22.4	988	96.1
		3/3/10	7.48	21.1	1030	97.1
		4/26/10	7.36	21.9	1038	97.7
		4/26/10 DUP	7.36	21.9	1038	97.9
		7/13/10	7.18	22.3	1013	88.7
		7/14/11	6.91	21.6	1019	87.3
		7/12/12	7.07	23.2	1060	92.0
		2/5/13	7.91	21.5	1057	98.3
		7/25/13	7.23	22.7	1074	97.6
		7/9/14	7.42	21.8	1132	81.5
		2/4/15	6.90	23.3	1488	73.7
		7/27/15	7.25	22.9	1221	69.6
		1/11/16	7.25	20.4	1195	73.5
		7/20/16	7.12	22.5	1184	74.4
		1/25/17	7.07	21.5	1167	79.8
		7/14/17	7.07	21.9	1162	80.4
		1/11/18	7.07	21.7	1169	77.3
		7/9/18	7.21	21.8	1165	73.0
		7/9/18 DUP	7.21	21.8	1165	74.5
		1/7/19	6.97	21.5	1163	73.1
		1/7/19 DUP	6.97	21.5	1163	74.0
		7/15/19	7.10	22.2	1154	71.2
1/7/20	7.21	20.5	1122	76.1		
8/4/20	7.06	23.4	1108	84.8		
1/6/21	7.09	22.8	1102	77.0		
7/12/21	7.13	22.7	1082	89.9		
8/3/22	7.02	21.7	1068	72.8		
COLLINS	565260	2/12/08	6.88	21.6	1470	520
		5/29/08	7.01	22.0	1459	520
		7/31/08	6.86	21.6	1502	536
		10/20/08	8.44	24.7	1510	518
		2/11/09	6.68	21.4	1147	567
		4/21/09	6.92	22.5	1150	499
		7/22/09	7.00	22.4	1413	460
		10/20/09	6.60	21.9	1432	513
		2/2/10	6.98	21.2	1439	471
		4/23/10	6.99	20.6	1472	561
		7/20/10	6.69	25.0	1420	569
7/17/13	6.97	21.6	1409	519		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
COOPER	623564	2/14/08	7.02	20.8	371	33
		5/14/08	8.08	22.1	419	34.2
		7/31/08	7.81	28.4	455	33.7
		10/20/08	8.44	24.7	448	31.2
		2/11/09	7.32	19.2	333	34.3
		4/21/09	8.19	24.9	346	33.4
		7/20/09	8.45	29.8	430	32.3
		10/14/09	7.85	24.6	423	33.6
		2/1/10	7.83	13.6	433	32.4
		4/22/10	7.82	17.9	433	34.5
		7/19/10	7.98	29.3	420	35.0
		10/18/10	7.12	73.1	450	33.1
		1/19/11	8.83	18.4	410	32.1
		4/11/11	7.65	21.0	442.6	34.3
		7/11/11	7.45	24.2	426.5	32.1
		11/22/11	7.86	20.6	426.1	33.7
		2/1/12	7.97	21.8	429.2	34.1
		4/10/12	7.41	22.4	426.8	32.5
		7/18/12	7.45	22.9	430	33.4
		10/9/12	7.70	22.1	432.8	34.3
		1/11/13	7.76	21.5	434.1	32.7
		4/10/13	7.72	21.1	427.5	31
		7/11/13	7.65	23.2	432.5	31.9
		10/7/13	7.68	22.7	430.5	31.4
		1/16/14	7.65	21.6	431.7	30.8
		4/10/14	7.66	22.3	433.1	31.5
		7/10/14	7.68	22.4	428.8	32.2
		10/8/14	7.37	23.5	408	31.1
		1/27/15	7.67	20.5	411	29.8
		8/3/15	7.67	22.7	421.3	27.1
		3/31/16	7.52	22.4	410	28.8
		7/25/16	7.62	22.4	420.2	27.3
		1/25/17	7.56	20.8	412.8	26.2
7/17/17	7.48	21.6	417.1	35.6		
1/16/18	7.45	20.8	402.8	26.1		
7/16/18	7.45	21.8	415.8	25.5		
1/16/19	7.45	20.5	412.0	23.7		
7/8/19	7.50	22.3	417.1	23.4		
1/21/20	7.08	21.2	418.9	20.9		
1/21/20 DUP	7.08	21.2	418.9	21.2		
COOPER 988	232988	7/16/21	7.97	24.1	414.0	18.5
		7/16/21 DUP	7.97	24.1	414.0	18.5
		1/28/22	7.79	14.9	397.5	16.3
		7/8/22	8.03	28.1	417.2	17.1
		7/8/22 DUP	8.03	28.1	417.2	17.1
COOPER C	637069	3/20/08	6.93	21.3	2081	880
		5/5/08	6.78	22.4	2139	990
		7/15/08	6.86	22.3	2162	1040
		7/15/08 DUP	6.86	22.3	2162	960
		10/16/08	6.80	21.4	2078	1020
		1/27/09	6.92	20.5	1489	950
		4/14/09	6.85	21.6	1833	930
		7/14/09	6.75	22.1	1972	910
		10/12/09	6.70	21.8	1858	830
		1/27/10	7.27	19.6	1930	620
		4/22/10	6.76	19.5	1921	884
		7/21/10	6.84	22.9	1761	921
		10/20/10	7.16	20.9	1980	829
		1/17/11	6.95	20.5	1880	756
		4/11/11	6.82	21.0	1942	834
		8/26/11	6.84	21.8	1800	847
		2/1/12	7.13	20.5	2024	867
		4/25/12	6.83	21.5	1960	817
		7/11/12	6.48	22.8	2030	834
		10/10/12	6.98	21.2	1985	863
		2/27/13	6.58	20.9	1805	821
		5/8/13	6.41	20.7	1744	798
		8/13/13	6.69	21.2	1739	756
		11/1/13	6.61	21.2	1624	738
		2/10/14	6.69	21.6	1616	715
		5/7/14	6.48	22.5	1612	686
		7/21/14	6.63	23.1	1548	671
		11/13/14	6.87	22.4	1520	638
		9/10/15	6.84	22.8	1997	641
		8/18/16	6.92	25.2	1468	647
		7/13/17	6.99	23.0	1461	639
		7/25/18	6.95	22.2	1545	661
		8/19/19	7.01	21.3	1568	623
8/17/20	6.97	21.9	1546	599		
7/27/21	6.88	22.5	1523	657		
7/25/22	6.93	24.8	1511	674		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
DODSON	644927	2/20/08	7.61	17.3	857	54
		5/12/08	7.11	21.1	1118	34.2
		7/24/08	7.25	21.6	1233	49.3
		10/13/08	7.15	20.5	1095	56.9
		1/22/09	7.20	20.4	892	51.8
		4/9/09	7.09	21.4	1103	50.1
		7/8/09	7.18	21.1	1153	55.9
		10/6/09	7.07	21.1	1140	49.3
		1/21/10	7.15	18.9	1227	44.6
		4/19/10	7.46	19.9	1261	48.8
		4/19/10 DUP	7.46	19.9	1261	48.6
		7/20/10	7.16	22.7	1260	47.5
		10/18/10	6.43	21.2	1260	49.3
		1/19/11	7.88	19.5	1120	57.9
		4/5/11	7.03	20.9	1300	49.0
		7/12/11	6.86	23.7	1352	52.9
		10/10/11	6.79	20.9	1280	50.9
		10/10/11 DUP	6.79	20.9	1280	49.6
		1/31/12	7.17	20.3	1454	50.4
		4/12/12	7.06	20.6	1492	45.4
		7/11/12	7.10	21.5	1790	54.0
		10/4/12	7.27	20.6	1626	48.7
		1/18/13	7.27	20.2	1743	51.8
		1/18/13 DUP	7.27	20.2	1743	51.6
		4/9/13	7.33	19.6	1886	74.4
		7/9/13	7.39	21.0	1825	53.6
		10/9/13	7.24	20.2	1612	63.3
		1/9/14	7.31	19.7	1586	61.4
		4/15/14	7.24	20.7	1636	58.5
		7/14/14	7.27	21.9	1651	54.4
		10/16/14	7.12	21.3	1706	53.2
		1/26/15	7.46	20.2	1650	59.5
		1/26/15 DUP	7.46	20.2	1650	59.9
		7/23/15	7.34	21.1	1716	60.8
		1/12/16	7.41	18.6	1749	49.2
		7/18/16	7.28	20.7	2233	49.1
		1/26/17	7.06	19.8	2049	45.9
		7/17/17	7.07	19.9	1920	46.1
		1/17/18	7.01	19.6	1922	45.4
		7/30/18	7.05	19.4	2408	39.1
1/15/19	6.49	19.5	2322	38.9		
7/9/19	6.94	20.8	2362	35.3		
1/15/20	7.27	19.1	2275	42.3		
8/13/20	6.87	20.6	2215	45.2		
1/11/21	7.07	20.2	2153	48.7		
7/21/21	7.07	20.7	2101	48.4		
1/28/22	7.33	18.7	2131	45.4		
7/8/22	7.14	22.2	2117	63.7		
DURAZO	NR	2/10/09	7.22	18.8	848	386
		4/20/09	7.37	22.7	901	367
		7/15/09	7.57	22.8	1102	332
		10/14/09	7.17	21.9	1048	377
		2/1/10	7.30	21.1	1105	344
		4/26/10	7.22	23.1	1099	388
		7/20/10	7.28	23.0	1070	405
		10/19/10	7.28	21.9	1112	398
		1/19/11	7.94	21.6	1050	360
		4/4/11	7.20	21.9	1119	383
		7/14/11	7.01	23.6	1101	409
		10/12/11	7.23	24.9	1000	396
		2/7/12	7.26	25.3	1152	404
4/12/12	7.41	21.8	1101	407		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
EAST	599796	2/8/08	7.45	19.9	423	10.6
		5/14/08	7.31	20.9	595	14.8
		7/23/08	7.34	20.8	605	11.8
		10/14/08	7.33	20.3	531	8.9
		1/20/09	7.33	20.0	482	12.5
		4/8/09	7.32	20.6	555	15.9
		7/13/09	7.33	21.2	613	13.8
		10/8/09	7.29	20.8	593	13.4
		1/25/10	7.08	19.0	585	10.7
		4/21/10	7.42	20.5	616	14.4
		4/21/10 DUP	7.42	20.5	616	13.9
		7/14/10	7.45	22.2	577.1	12.1
		10/20/10	7.64	21.2	650	12.1
		1/18/11	7.44	21.0	615.9	13.1
		4/5/11	7.19	20.8	612.5	13.8
		7/12/11	7.23	21.7	595.1	12.7
		10/12/11	7.31	21.4	599.7	15.1
		10/12/11 DUP	7.31	21.4	599.7	15.1
		1/31/12	7.24	20.0	610	12.8
		4/11/12	7.53	20.6	609.3	14.6
		7/9/12	7.20	21.1	580	14.2
		10/4/12	7.49	20.4	623.8	15.0
		1/17/13	7.46	20.0	613.0	13.1
		4/9/13	7.54	19.6	597.7	12.2
		7/9/13	7.46	21.2	603.6	12.1
		10/15/13	7.51	20.2	622.6	17.2
		1/14/14	7.54	20.2	632.2	15.5
		1/14/14 DUP	7.54	20.2	632.2	15.5
		4/8/14	7.44	20.5	634.7	15.3
		7/8/14	7.43	20.7	618.8	13.1
		10/22/14	7.23	22.8	601.0	20.7
		7/24/15	7.5	21.0	626.5	13.1
7/12/16	7.30	21.3	615.9	14.7		
7/27/17	7.22	19.8	620.9	14.2		
7/30/18	7.26	19.8	605.9	12.4		
7/17/19	7.25	19.6	603.8	11.8		
8/13/20	7.17	20.3	612.3	12.2		
7/23/21	7.22	20.6	603.0	12.7		
7/7/22	7.54	19.6	619.1	11.9		
ECHAVE	219449	2/1/12	7.39	20.7	390.0	26.7
		4/23/12	7.50	22.5	440.0	26.4
		7/17/12	7.44	22.2	430	26.1
		10/9/12	7.69	21.9	404.7	26.1
		10/9/12 DUP	7.69	21.9	404.7	26.0
		1/18/13	7.61	21.7	408.5	25.4
		5/14/13	7.74	22.2	400.2	25.2
		7/17/13	7.81	22.1	406.4	24.3
		10/8/13	7.66	21.4	404.3	24.5
		1/13/14	7.68	21.0	412.4	25.7
		4/10/14	7.67	21.4	409.3	26.4
		7/17/14	7.68	21.6	405.0	26.7
		10/22/14	7.43	21.4	406.0	25.9
		8/3/15	7.88	28.7	406.8	24.6
		7/22/16	7.86	27.5	391.5	24.7
		7/28/17	7.59	25.1	403.2	25.7
		7/17/18	7.68	24.3	397.5	24.1
		7/23/19	7.54	26.3	398.3	23.0
		8/10/20	7.74	30.4	397.0	22.2
		7/21/21	7.70	26.1	390.3	22.7
		7/12/22	7.73	27.2	392.8	19.5

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
EPPELE 641	805641	3/11/08	7.98	21.4	646	21.7
		5/12/08	7.21	21.7	667	24.7
		7/21/08	7.49	23.9	605	19
		10/14/08	7.56	20.4	642	21.8
		1/21/09	7.60	21.1	500	22.7
		4/8/09	7.56	22.4	538	19.7
		7/9/09	7.43	24.3	550	17.5
		7/20/10	7.58	23.3	529.2	21.1
		10/20/10	7.66	21.0	572.1	17.2
		1/17/11	7.43	21.0	576.4	17.3
		4/5/11	7.43	21.5	569.2	16.7
		7/11/11	7.27	23.5	563.1	18.6
		7/11/11 DUP	7.27	23.5	563.1	18.3
		10/12/11	7.38	20.9	500.0	19.6
		1/31/12	7.68	19.9	560.8	18.2
		4/11/12	7.74	20.6	563.8	19.5
		4/11/12 DUP	7.74	20.6	563.8	19.6
		7/6/12	7.60	21.7	560	18.8
		10/3/12	7.84	20.7	558.8	19.5
		1/17/13	7.76	19.1	559.6	18.8
		4/8/13	7.71	20.4	564.1	17.5
		4/8/13 DUP	7.71	20.4	564.1	17.4
		7/9/13	7.66	21.9	570.1	17.5
		10/15/13	7.86	21.1	682.5	31.9
		1/14/14	7.97	19.1	602.8	29.0
		4/8/14	7.60	19.4	600.2	21.5
		7/8/14	7.65	21.0	596.9	21.6
		10/21/14	7.22	22.2	659	32.2
		7/24/15	7.60	21.2	638.1	22.6
		7/12/16	7.84	24.6	576.6	18.9
		7/12/16 DUP	7.84	24.6	576.6	18.9
7/27/17	7.70	21.4	563.1	18.8		
7/31/18	7.78	21.6	558.9	17.8		
2/8/22	7.45	20.1	582.0	20.8		
FLEMING	218386	7/15/10	6.98	24.2	1390	573
FRANCO 101	500101	2/6/08	7.47	19.6	1301	670
		5/5/08	6.93	23.1	1557	680
		7/14/08	7.00	22.7	1586	680
		10/15/08	7.20	20.5	1560	680
		1/22/09	7.19	20.1	1178	740
		4/14/09	7.24	23.1	1416	690
		7/13/09	7.30	27.3	1532	670
		10/12/09	7.16	24.2	1493	650
		1/26/10	6.91	18.5	1529	640
		4/23/10	7.43	15.8	1559	699
		7/13/10	7.48	28.6	901.6	188
		9/13/12	7.66	25.0	1005	318
		10/5/12	7.63	24.4	1002	324
11/13/12	7.67	19.8	988.2	349		
12/3/12	7.54	19.4	1001	332		
1/15/13	7.52	13.5	1010	333		
2/6/13	7.55	18.9	1004	353		
3/7/13	7.4	20.5	979.9	338		
4/10/13	7.7	20.4	1000	335		
7/10/13	7.69	25.7	1018	335		
10/16/13	7.63	21.9	1018	350		
1/14/14	7.68	20.1	1039	345		
4/8/14	7.68	24.3	1044	351		
4/8/14 DUP	7.68	24.3	1044	330		
7/14/14	7.63	26.5	1030	349		
10/8/14	7.47	23.5	954	335		
7/27/15	7.68	27.3	1047	322		
7/18/16	7.63	26.0	1040	339		
7/20/17	7.36	24.9	1056	337		
7/27/18	7.42	25.8	1063	371		
7/24/19	7.42	24.9	1085	349		
8/12/20	7.40	26.5	1105	367		
7/22/21	7.36	26.3	1101	392		
7/7/22	7.59	28.2	1077	367		
FRANCO 383	221383	9/13/12	7.66	25.0	1005	318
		10/5/12	7.63	24.4	1002	324
		11/13/12	7.67	19.8	988.2	349
		12/3/12	7.54	19.4	1001	332
		1/15/13	7.52	13.5	1010	333
		2/6/13	7.55	18.9	1004	353
		3/7/13	7.4	20.5	979.9	338
		4/10/13	7.7	20.4	1000	335
		7/10/13	7.69	25.7	1018	335
		10/16/13	7.63	21.9	1018	350
		1/14/14	7.68	20.1	1039	345
		4/8/14	7.68	24.3	1044	351
		4/8/14 DUP	7.68	24.3	1044	330
		7/14/14	7.63	26.5	1030	349
		10/8/14	7.47	23.5	954	335
		7/27/15	7.68	27.3	1047	322
		7/18/16	7.63	26.0	1040	339
		7/20/17	7.36	24.9	1056	337
		7/27/18	7.42	25.8	1063	371
		7/24/19	7.42	24.9	1085	349
8/12/20	7.40	26.5	1105	367		
7/22/21	7.36	26.3	1101	392		
7/7/22	7.59	28.2	1077	367		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
FULTZ	212447	2/27/08	6.76	21.1	1827	152		
		4/21/08 ¹	6.74	22.0	1739	137		
		5/14/08 ¹	6.88	22.3	1532	131		
		6/23/08 ¹	6.74	22.0	1788	111		
		7/29/08 ¹	6.74	22.2	1989	152		
		8/28/08 ¹	M	21.6	1889	137		
		9/23/08 ¹	6.82	21.9	1821	137		
		10/22/08	6.80	21.4	1940	145		
		1/21/09	6.74	21.2	1481	82		
		4/9/09	6.78	21.5	1695	138		
		7/13/09	7.04	23.4	1452	81		
		10/8/09	7.00	21.6	1262	72		
		10/8/09 DUP	7.00	21.6	1262	71.8		
		1/25/10	7.11	21.8	1282	66.7		
		4/20/10	7.32	21.2	1202	68.3		
		7/14/10	7.75	22.2	1132	57.0		
		10/20/10	7.27	20.5	1091	54.7		
		1/18/11	7.23	20.4	1136	56.9		
		4/5/11	7.08	22.1	1082	49.5		
		4/5/11 DUP	7.08	22.1	1082	51.7		
8/25/11	6.45	23.3	940	50.6				
10/12/11	7.22	21.7	870	48.5				
7/11/22	7.39	21.3	808.2	49.8				
GALLANT	502527	2/11/08	7.46	20.2	604	17.9		
		7/23/08	7.26	21.2	925	20.9		
GARNER 635	587635	2/4/08	7.61	22.7	479	37.8		
		5/5/08	7.26	24.9	468	35.8		
		7/15/08	7.63	25.6	480	37.4		
		10/15/08	7.65	24.1	472	36		
		1/28/09	7.69	23.4	368	37.4		
		4/15/09	7.83	24.1	412	36.9		
		7/16/09	7.56	25.1	445	35.7		
		10/14/09	7.58	25.2	446	36.1		
		2/2/10	7.79	22.8	465	35.1		
		4/22/10	7.84	23.7	464.1	36.9		
		7/20/10	7.57	25.3	458.2	38.8		
		10/19/10	8.23	25.4	510	37.9		
		1/19/11	7.82	24.1	463.4	35.7		
		1/19/11 DUP	7.82	24.1	463.4	35.7		
		4/6/11	7.76	23.4	467.4	35.8		
		7/15/11	7.19	25.0	457.40	37.7		
		10/11/11	7.57	24.2	400.0	38		
		2/2/12	7.38	22.7	469.5	39.2		
		4/13/12	7.62	24.0	460.0	33.5		
		7/11/12	7.52	24.9	520	37.7		
		7/11/12 DUP	7.52	24.9	520	37.2		
		10/5/12	8.09	23.1	472.9	39.1		
		1/11/13	7.83	23.7	470.8	38.7		
		4/15/13	7.79	23.4	471.5	40		
		7/10/13	7.9	25.0	469.5	36.7		
		10/11/13	7.78	24.0	476.7	38.8		
		1/17/14	7.81	23.2	473.6	41		
		4/15/14	7.74	23.7	470.7	40.4		
		7/26/17	7.46	23.4	474.1	40.6		
		7/24/18	7.48	23.9	468.1	41.7		
		7/15/19	7.49	23.4	473.6	41.2		
		8/6/20	7.51	24.2	473.6	36.3		
		7/21/21	7.52	24.1	471.9	38.0		
		7/12/22	7.62	25.9	468.6	37.2		
		GGOOSE 547	628547	5/21/08	7.08	22.7	856	199
				8/15/08	7.02	24.8	915	178
10/29/08	7.27			22.6	897	216		
2/24/09	7.06			23.8	851	186		
5/14/09	7.15			23.9	743	174		
8/19/09	7.20			23.8	887	175		
GL-03	539782	11/11/09	7.15	23.1	897	188		
		3/4/08	7.43	25.7	417	20.3		
		5/22/08	7.06	25.3	647	43.3		
		8/4/08	7.10	26.8	673	36.1		
		11/12/08	7.21	25.2	478	34.9		
		2/26/09	7.05	26.5	603	54.8		
		5/5/09	6.91	28.1	682	43.9		
		8/1/09	7.12	27.4	768	43.1		
		11/10/09	6.96	27.0	692	49		
		3/2/10	7.36	24.9	693	43.4		
		3/2/10 DUP	7.36	24.9	693	45.1		
		4/9/10	6.17	25.6	556	48.1		
		7/7/10	6.48	26.3	546	44.4		
		2/1/12	6.57	24.1	559	42.0		
HARDT	NR	2/5/13	7.15	17.5	670.6	17.7		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
HOBAN	805290	2/27/08	6.93	22.1	1359	510
		5/7/08	6.88	22.3	1532	670
		7/14/08	6.88	23.1	1719	690
		10/16/08	6.98	22.4	1624	692
		1/28/09	6.82	21.3	1220	580
		4/15/09	7.07	21.7	1423	700
		7/14/09	6.78	22.6	1551	670
		10/15/09	6.75	22.7	1487	670
		10/15/09 DUP	6.75	22.7	1487	780
		3/2/10	7.12	19.8	1575	580
		8/31/11	6.64	22.3	1772	893
		12/14/11	6.68	20.2	1870	944
		2/1/12	6.74	20.9	1900	993
		4/19/12	6.81	21.5	1805	868
		7/11/12	6.86	21.4	1906	1110
		10/17/12	6.74	22.0	1846	1040
		2/15/13	6.64	20.7	1934	954
		5/8/13	6.6	21.4	1903	1060
		8/13/13	6.85	21.6	1925	1030
		11/1/13	6.74	21.0	1920	1070
		2/10/14	6.64	21.0	1950	991
		5/7/14	6.69	21.1	1958	1030
		7/21/14	6.69	21.6	1903	1030
		11/13/14	6.88	21.7	1965	1020
		9/10/15	6.82	22.1	1922	1030
		8/18/16	6.77	22.0	1922	1050
		7/13/17	6.77	21.7	1924	1270
		7/13/17 DUP	6.77	21.7	1924	1050
		7/25/18	7.01	22.2	1907	998
		8/7/19	6.90	22.2	1798	923
		9/8/20	7.15	24.4	1487	637
9/20/21	6.91	21.7	1182	477		
7/25/22	7.19	22.1	868	309		
7/25/22 DUP	7.19	22.1	868	310		
HOWARD 312	221312	8/14/12	8.35	26.3	629.3	69.2
		10/16/12	8.18	26.6	648.3	68.1
		2/6/13	8.18	24.1	650.3	71.9
		4/9/13	8.2	24.3	621	67.5
		7/12/13	8.25	26.8	624.9	67.9
		10/16/13	8.12	25.6	623.7	70.2
		1/8/14	8.22	24.8	620.1	70.8
		4/10/14	8.14	26	621.7	66.1
		4/10/14 DUP	8.14	26	621.7	68.2
		7/14/14	8.16	26.6	618.3	69.1
		10/10/14	7.99	26.4	621.0	66.8
		7/31/15	8.17	27.4	618.8	67.5
		7/27/16	8.12	26.3	612.6	67.9
		7/21/17	8.00	26.0	616.4	65.8
		7/23/18	8.05	26.1	614.7	70.7
		7/9/19	7.96	25.9	607.8	65.6
		7/21/20	8.07	26.7	611.7	75.7
		7/21/20 DUP	8.07	26.7	611.7	73.1
		7/28/21	7.97	25.9	609.2	63.1
		7/13/22	8.04	25.5	614.9	65.3
HOWARD NR	NR	3/4/08	7.06	20.4	1280	571
		5/8/08	6.95	21.0	1494	673
		7/14/08	7.00	21.1	1566	610
		10/15/08	7.00	20.6	1598	683
		1/28/09	6.82	21.0	1203	640
		1/28/09 DUP	6.82	21.0	1203	640
		4/15/09	7.02	21.5	1397	620
		7/15/09	7.16	21.5	1539	640
		10/12/09	6.89	21.4	1414	600
		1/27/10	7.35	20.0	1714	440
		1/27/10 DUP	7.35	20.0	1714	520
		4/21/10	7.16	20.8	1490	710
		7/19/10	6.94	24.6	1350	548
		10/18/10	6.47	21.4	1420	568
		1/17/11	7.12	19.8	1370	520
		4/11/11	7.20	20.6	1489	616
		8/26/11	7.11	23.2	1160	498
		10/11/11	7.1	21.0	1220	545
		10/11/11 DUP	7.1	21.0	1220	538
		2/1/12	7.29	20.6	1367	630
		4/13/12	6.99	21.2	1508	632
		9/13/12	7.12	21.9	1576	699
		10/16/12	7.06	21.1	1417	576
		2/6/13	7.06	20.3	1499	679
		4/9/13	7.38	19.4	1319	521
		7/12/13	7.40	21.6	1430	590
		10/16/13	7.15	20.3	1319	522
		1/8/14	7.24	20.3	1267	462
		4/10/14	7.23	20.6	1262	471
		7/14/14	7.18	21.1	1300	496
		7/14/14 DUP	7.18	21.1	1300	495
10/10/14	6.93	23.2	1339	413		
7/31/15	7.16	21.9	1316	484		
7/21/17	6.98	20.1	1278	447		
7/9/19	6.90	20.1	1304	480		
7/28/21	6.98	19.9	1238	496		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
KEEFER	209744	2/6/08	7.70	19.0	378	6.8
		5/6/08	7.19	20.3	512	9
		7/16/08	7.21	21.4	539	8
		10/28/08	7.32	20.1	534	21.2
		1/28/09	7.42	19.5	356	6.1
		4/16/09	7.29	20.0	452	7.7
		7/14/09	7.35	22.1	533	7
		10/13/09	7.24	20.7	516	8.7
		1/26/10	7.15	18.8	483	7.3
		4/20/10	7.44	20.5	540.9	8.77
		7/15/10	7.50	22.2	535.8	8.84
		10/19/10	6.72	20.2	470	7.89
		1/18/11	7.45	20.6	450	7.24
		4/6/11	7.48	19.1	546.2	8.04
		7/18/11	7.19	23.2	492.3	7.79
		10/11/11	7.39	20.7	486.9	7.98
		2/6/12	7.36	20.3	482.0	6.84
		4/23/12	7.23	21.6	500	7.14
		7/17/12	7.40	21.0	500	7.29
		10/9/12	7.58	20.1	506.6	8.47
		1/10/13	7.55	19.3	466.3	6.37
		4/18/13	7.58	20	475.9	7.3
		7/11/13	7.67	20.8	485.1	7.23
		7/11/13 DUP	7.67	20.8	485.1	7.24
		10/7/13	7.53	20.6	458.9	6.39
		1/7/14	7.61	19.7	464.8	6.54
		4/9/14	7.59	20.2	473.3	6.61
		7/10/14	7.49	21.6	460.5	6.66
		10/8/14	7.32	22.3	429	6.35
		7/21/15	7.62	22.1	462.2	6.09
		7/25/16	7.42	22.2	477.9	6.81
		7/25/17	7.31	19.4	499.5	7.23
		2/23/18	7.31	19.5	472.7	6.60
		7/9/18	7.35	19.9	494.4	6.25
		1/11/19	7.26	18.4	466.2	6.59
		7/10/19	7.23	19.4	495.1	7.03
		1/17/20	7.56	18.0	486.5	7.07
		7/22/20	7.35	20.2	496.3	7.19
		1/12/21	7.30	20.1	495.8	7.04
		7/13/21	7.30	20.4	505.3	9.24
1/25/22	7.34	18.5	500.5	7.32		
7/7/22 DUP	7.47	20.8	510.2	7.41		
7/7/22	7.47	20.8	510.2	7.42		
MARCELL	NR	8/26/11	7.12	25.1	1390	669
		9/26/11	6.63	22.1	1502	638
		11/22/11	7.29	21.0	1536	687
		2/1/12	7.42	20.8	1557	705
		4/13/12	7.15	21.8	1560	668
		7/13/12	6.86	22.3	1730	650
		10/17/12	7.18	21.3	1546	660
		10/17/12 DUP	7.18	21.3	1546	657
		2/6/13	7.25	19.8	1553	714
		2/6/13 DUP	7.25	19.8	1553	714
		4/10/13	7.07	19.9	1578	695
		7/15/13	7.09	21.4	1617	724
		2/20/08	7.21	21.1	1435	720
		5/6/08	6.77	21.6	1668	737
7/15/08	6.91	22.3	1775	700		
10/15/08	6.82	21.3	1686	703		
1/28/09	6.85	21	1274	660		
4/15/09	7.04	21.3	1472	657		
7/15/09	7.01	22.2	1607	662		
10/12/09	6.77	21.7	1594	666		
1/26/10	6.71	21.5	1641	685		
4/22/10	6.95	20.1	1691	811		
7/21/10	6.86	23.5	1560	805		
10/18/10	6.97	22.0	1704	775		
1/19/11	7.38	20.6	1610	711		
4/8/11	7.04	19.8	1775	810		
7/12/11	6.60	23.7	1702	790		
10/11/11	7.18	21.8	1590	845		
2/7/12	7.14	20.6	1842	847		
4/11/12	6.82	21.4	1781	833		
7/6/12	6.88	22.4	1827	851		
10/8/12	7.07	20.9	1862	934		
1/10/13	6.89	20.9	1854	902		
1/10/13 DUP	6.89	20.9	1854	889		
4/18/13	7.11	20.4	1889	884		
7/10/13	7.14	22.1	1897	898		
10/14/13	7.00	21.0	1911	908		
1/8/14	7.23	20.9	1942	985		
4/14/14	6.99	20.7	1913	963		
7/14/14	6.95	21.8	1941	975		
10/7/14	6.84	22.2	1976	968		
7/31/15	7.04	21.9	1970	949		
7/20/17	6.73	20.6	1964	905		
MCCONNELL 265	539265	2/6/08	7.70	19.0	378	6.8
		5/6/08	7.19	20.3	512	9
		7/16/08	7.21	21.4	539	8
		10/28/08	7.32	20.1	534	21.2
		1/28/09	7.42	19.5	356	6.1
		4/16/09	7.29	20.0	452	7.7
		7/14/09	7.35	22.1	533	7
		10/13/09	7.24	20.7	516	8.7
		1/26/10	7.15	18.8	483	7.3
		4/20/10	7.44	20.5	540.9	8.77
		7/15/10	7.50	22.2	535.8	8.84
		10/19/10	6.72	20.2	470	7.89
		1/18/11	7.45	20.6	450	7.24
		4/6/11	7.48	19.1	546.2	8.04
		7/18/11	7.19	23.2	492.3	7.79
		10/11/11	7.39	20.7	486.9	7.98
		2/6/12	7.36	20.3	482.0	6.84
		4/23/12	7.23	21.6	500	7.14
		7/17/12	7.40	21.0	500	7.29
		10/9/12	7.58	20.1	506.6	8.47
		1/10/13	7.55	19.3	466.3	6.37
		4/18/13	7.58	20	475.9	7.3
		7/11/13	7.67	20.8	485.1	7.23
		7/11/13 DUP	7.67	20.8	485.1	7.24
		10/7/13	7.53	20.6	458.9	6.39
		1/7/14	7.61	19.7	464.8	6.54
		4/9/14	7.59	20.2	473.3	6.61
		7/10/14	7.49	21.6	460.5	6.66
10/8/14	7.32	22.3	429	6.35		
7/21/15	7.62	22.1	462.2	6.09		
7/25/16	7.42	22.2	477.9	6.81		
7/25/17	7.31	19.4	499.5	7.23		
2/23/18	7.31	19.5	472.7	6.60		
7/9/18	7.35	19.9	494.4	6.25		
1/11/19	7.26	18.4	466.2	6.59		
7/10/19	7.23	19.4	495.1	7.03		
1/17/20	7.56	18.0	486.5	7.07		
7/22/20	7.35	20.2	496.3	7.19		
1/12/21	7.30	20.1	495.8	7.04		
7/13/21	7.30	20.4	505.3	9.24		
1/25/22	7.34	18.5	500.5	7.32		
7/7/22 DUP	7.47	20.8	510.2	7.41		
7/7/22	7.47	20.8	510.2	7.42		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	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
		10/8/12	8.12	25.3	517.3	43.4
		1/15/13	8.06	24.5	512.6	37.4
		4/10/13	8.14	23.5	487.0	35.5
		7/10/13	8.10	25.5	480.7	34.5
		10/14/13	8.04	24.9	486.7	34.6
		1/8/14	8.20	23.7	489.4	37.1
		4/14/14	8.08	24.6	474.3	35.9
		9/9/14	8.12	25.1	465.7	33.0
		10/7/14	7.94	25.7	478.0	34.1
		7/31/15	8.13	25.9	453.6	28.5
		7/26/16	8.08	25.6	455.3	30.4
		7/20/17	7.93	24.9	449.8	32.3
		7/17/18	7.93	24.8	446.7	28.6
		7/10/19	7.90	25.0	447.9	27.2
		8/10/20	8.01	25.5	450.9	28.6
		7/27/21	7.92	24.7	447.2	28.1
7/12/22	8.03	25.7	450	28.6		
METZLER	35-71891	3/5/08	7.27	21.6	1055	317
		5/15/08	7.12	22.8	1051	329
		7/31/08	7.16	22.5	1078	317
		10/20/08	7.24	22.2	1080	305
		10/20/08 DUP	7.24	22.2	1080	326
		2/11/09	7.12	21.3	818	321
		4/20/09	7.22	23.2	845	313
		7/15/09	7.41	22.9	1031	293
		7/15/09 DUP	7.41	22.9	1031	309
		10/14/09	7.1	22.7	989	315
		2/1/10	7.22	21.7	1021	286
		5/18/10	7.56	21.0	1053	330
		7/16/10	7.20	24.1	1007	330
		10/19/10	7.15	22.6	1006	319
		1/19/11	7.55	21.1	930	298
		4/4/11	7.03	23.3	1018	323
		7/12/11	7.07	22.3	993.0	312
		10/12/11	7.27	22.1	910	301
		2/7/12	7.36	21.5	1019	326
		4/12/12	7.34	21.1	1009	320
MOORE	538847	2/20/08	7.69	22.2	362	7.1
		5/8/08	7.09	22.4	432	7.5
		7/16/08	7.34	23.0	482	9.8
		10/29/08	7.32	22.4	452	19.2
		1/29/09	7.11	21.7	328	6.6
		4/16/09	7.40	22.1	374	6.4
		7/15/09	7.44	23.3	439	5.8
		10/13/09	7.36	22.6	429	7.1
		1/26/10	7.54	19.6	423	6.3
		4/22/10	7.47	20.6	433	7.40
		7/15/10	7.44	24.1	431.3	7.54
		7/15/10 DUP	7.44	24.1	431.3	7.11
		10/19/10	6.79	22.1	430	7.14
		1/18/11	7.48	21.1	390	6.42
		4/6/11	7.39	21.4	426.3	6.70
		7/13/11	6.91	23.2	423.4	7.62
		10/11/11	7.31	22.5	419.0	7.31
		1/31/12	7.35	21.7	430	7.21
		4/23/12	7.34	22.8	470	6.99
		4/23/12 DUP	7.34	22.8	470	7.05
		7/17/12	7.36	22.9	430	7.01
		7/17/12 DUP	7.36	22.9	430	6.99
		10/8/12	7.64	21.4	433.2	7.51
		1/10/13	7.50	20.8	439.9	7.16
		4/19/13	7.68	21.6	434.7	7.25
		7/11/13	7.56	22.9	442.2	7.14
		10/7/13	7.59	21.5	431.8	6.99
		10/13/14	7.47	22.0	433	6.72
		8/3/15	7.61	22.9	446.7	7.12
		7/14/16	7.55	23.0	445.8	7.86
		7/25/17	7.28	21.1	455.5	7.98
		8/1/18	7.24	26.9	436.8	8.10
		7/9/19	6.97	22.7	443.9	6.26
7/22/20	7.35	21.9	447.0	8.03		
7/28/21	7.31	21.1	445.6	8.51		
7/7/22	7.39	21.5	449.4	7.96		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NESS	509127	7/24/08	7.35	26.5	563	50.2
		10/16/08	7.47	21.4	542	48.9
		1/26/09	7.39	17.2	422	52.3
		5/11/09	7.52	28.8	472	45.9
		8/11/09	7.56	28.7	525	39.8
		11/12/09	7.53	24.5	537	51.3
		2/2/10	7.67	19.7	535	48.7
		4/21/10	7.70	23.5	518.9	42.1
		7/19/10	7.58	28.9	524.7	48.1
		1/18/11	7.49	21.8	536.6	50.1
		7/12/11	7.48	26.3	520.0	43.5
		2/3/12	7.58	21.1	538.2	49.0
		7/10/12	7.20	26.8	380	40.1
		7/10/12 DUP	7.20	26.8	380	39.2
		1/9/13	7.57	19.1	549.6	53.9
		7/8/13	7.84	27.9	539.2	46.8
		1/6/14	7.61	20.3	542.4	53.4
		7/7/14	7.60	25.3	536.6	48.3
		7/20/15	7.75	27.4	560.8	54.3
		7/11/16	7.60	28.5	545.2	49.6
		7/27/17	7.39	26.4	545.8	55.2
		7/31/18	7.42	26.4	550.7	54.1
		7/11/19	7.03	27.1	517.3	30.5
8/14/20	7.73	28.0	538.1	46.5		
7/19/21	7.82	26.8	583.1	47.9		
7/14/22	7.68	29.8	554.2	49.8		
NOTEMAN	212483	2/5/08	6.70	19.9	1317	310
		5/13/08	6.67	23.0	1445	272
		7/24/08	6.68	24.2	1539	274
		10/23/08	6.57	23.2	1643	356
		1/19/09	6.38	22.9	1098	322
		4/7/09	6.56	23.8	1375	303
		7/8/09	6.55	24.6	1405	280
		10/5/09	6.48	24.1	1442	281
		1/20/10	6.79	20.3	1450	289
		4/19/10	6.81	22.4	1446	307
		7/19/10	6.77	24.6	1438	309
		10/18/10	6.08	24.6	1430	280
		1/19/11	6.84	22.3	1446	266
		4/4/11	6.72	22.9	1446	276
		4/4/11 DUP	6.72	22.9	1446	279
		7/11/11	6.78	23.9	1406	272
		10/11/11	6.96	23.4	1250	286
		2/3/12	6.68	21.3	1370	301
		4/23/12	6.68	24.0	1580	291
		7/9/12	6.57	24.7	1360	265
		7/9/12 DUP	6.57	24.7	1360	265
		10/4/12	6.80	23.6	1412	287
		1/17/13	6.69	23.3	1417	288
		4/8/13	6.90	22.3	1409	280
		7/9/13	6.89	24.3	1400	278
		10/14/13	6.75	23.2	1528	355
		1/10/14	6.83	22.2	1440	311
		4/10/14	6.84	23.2	1426	301
		7/7/14	6.80	23.2	1423	289
		12/10/14	6.66	22.8	1528	366
		7/23/15	6.87	24.1	1424	287
		7/15/16	6.79	23.9	1412	257
		7/27/17	6.57	22.9	1383	265
7/24/19	6.61	22.6	1359	235		
7/20/21	6.53	23.5	1328	211		
NOTEMAN HOUSE	212483	2/3/12	7.06	13.5	1520	324
NSD-02	527587	2/5/08	ND	ND	ND	43
		7/7/08	8.02	21.0	609.00	44
NSD-03	527586	2/5/08	ND	ND	ND	70.7
		7/7/08	7.64	21.0	570.00	58.9

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-02	562944	10/27/08	7.47	22.2	438	5.1
		2/12/09	7.58	21.6	330	6.6
		4/23/09	7.39	23.8	373	6.4
		7/21/09	7.62	23.9	408	5
		10/21/09	7.32	22.6	436	6.8
		2/3/10	7.68	19.6	423	8.5
		4/21/10	7.57	22.1	413	7.26
		7/20/10	7.36	23.7	412.5	6.87
		10/19/10	7.42	22.5	416.2	7.39
		1/18/11	7.47	23.2	390	6.43
		4/6/11	7.27	22.9	413.5	6.4
		7/15/11	7.03	22.5	416.3	7.24
		10/13/11	7.45	21.9	370	7.31
		1/30/12	7.39	21.2	431.3	7.78
		4/25/12	7.42	22.4	370	8.42
		7/18/12	7.33	22.5	430	6.99
		10/10/12	7.58	21.7	423.9	7.46
		1/10/13	7.58	21.8	396.4	9.02
		4/17/13	7.64	21.2	426.2	7.52
		7/12/13	7.65	22.0	429.3	6.91
		10/10/13	7.49	21.2	433.4	7.05
		10/10/13 DUP	7.49	21.2	433.4	7.14
		1/13/14	7.6	21.2	426.7	7.03
		4/7/14	7.59	21.3	432.9	7.34
		7/10/14	7.57	22.0	431.6	7.65
		10/13/14	7.48	23.1	424	7.04
		2/12/15	7.42	21.0	436	7.11
		7/30/15	7.62	22.2	436.2	6.31
		1/12/16	7.81	20.2	421.5	6.17
		7/26/16	7.54	21.4	434.4	6.81
		1/26/17	7.41	21.0	421.2	6.81
		7/18/17	7.29	21.0	435.8	7.15
		1/16/18	7.39	20.8	427.3	6.76
		7/18/18	7.34	20.7	435.3	6.50
		1/7/19	7.39	20.6	430.6	7.07
		7/9/19	7.14	21.4	442.2	5.75
		1/16/20	7.55	20.5	430.6	7.83
		7/22/20	7.47	21.3	437.9	8.15
		1/12/21	7.42	21.3	422.1	8.55
		7/22/21	7.36	20.6	442.6	9.64
2/1/22	7.31	20.3	432.1	8.48		
7/14/22	7.51	26.0	422.2	9.04		
NWC-03	203321	3/4/08	ND	ND	ND	560
		6/9/08	ND	ND	ND	524
		10/27/08	7.07	21.9	1374	489
		2/12/09	7.06	20.2	1023	412
		4/23/09	6.98	21.9	1129	466
		4/23/09 DUP	6.98	21.9	1129	460
		7/21/09	7.21	22.9	1194	458
		10/21/09	6.94	21.8	1224	444
		2/3/10	7.24	20.7	1214	444
		4/21/10	7.22	21.6	1178	433
		7/20/10	7.04	22.8	1229	477
		10/19/10	7.22	21.3	1172	432
		1/18/11	7.09	22.8	1120	386
		4/6/11	7.19	21.7	1114	361
		7/15/11	6.91	21.8	1094	386
		10/13/11	7.23	21.6	960	353
		1/30/12	7.15	21.5	1061	379
		4/25/12	7.17	21.6	920	346
		4/25/12 DUP	7.17	21.6	920	347
		7/18/12	7.05	22.1	1080	354
		10/10/12	7.31	21.1	1029	354
		10/10/12 DUP	7.31	21.1	1029	353
1/10/13	7.18	20.8	1051	370		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
NWC-04	551849	3/4/08	ND	ND	ND	240
		6/9/08	ND	ND	ND	231
		10/27/08	7.32	25.0	856	162
		1/22/09	7.23	22.9	688	184
		2/12/09	7.20	19.8	699	181
		2/12/09 DUP	7.20	19.8	699	198
		3/11/09	7.15	23.4	846	197
		4/23/09	7.21	24.1	797	188
		5/28/09	7.01	24.1	933	210
		6/24/09	6.93	25.6	792	169
		7/21/09	7.48	24.3	859	193
		8/19/09	7.12	24.5	906	183
		9/23/09	7.16	23.8	953	202
		10/21/09	7.18	24.3	875	191
		11/18/09	7.24	22.9	909	191
		12/16/09	7.28	22.3	926	193
		2/3/10	7.49	22.3	844	167
		3/8/10	7.33	22.5	880	182
		4/21/10	7.34	22.8	913	218
		5/18/10	7.68	25.8	901.3	210
		6/15/10	7.31	24.5	917.5	212
		7/20/10	7.28	28.3	873.2	188
		8/25/10	7.55	24.8	820.9	196
		9/29/10	7.38	24.5	920.2	205
		10/19/10	7.34	23.6	870.2	195
		11/4/10	7.53	23.9	853.2	197
		12/14/10	7.41	23.6	856.8	182
		1/18/11	7.31	24.1	860	194
		2/17/11	7.46	22.3	848.6	169
		3/17/11	7.44	24.1	888.1	182
		4/5/11	7.32	23.4	878.7	196
		5/11/11	7.32	23.1	868.1	175
		6/17/11	7.28	23.7	856.3	204
		7/15/11	7.06	23.5	875.1	202
		8/25/11	7.32	25.1	780	195
		9/26/11	6.56	26.2	875.4	198
		9/26/11 DUP	6.56	26.2	875.4	199
		10/13/11	7.46	23.3	770	198
		11/22/11	7.36	22.9	853.5	201
		12/8/11	7.33	22.3	872.2	207
		1/30/12	7.34	23.4	914.4	217
		2/17/12	7.45	22.9	898.1	203
		3/15/12	7.39	23.9	888.2	207
		4/25/12	7.16	23.4	870	204
		5/22/12	7.25	23.9	970	178
		5/22/12	7.25	23.9	970	178
		6/6/12	7.27	24.4	1040	195
		7/18/12	7.25	23.7	880	205
		8/28/12	7.49	24.2	893.3	208
		9/13/12	7.40	23.9	883.7	205
		10/10/12	7.48	23.2	883.6	207
		11/13/12	7.56	21.7	849.8	211
		12/3/12	7.40	23.0	898.6	208
		1/10/13	7.37	22.2	903.1	210
		2/7/13	7.54	23.0	917.5	228
		3/7/13	7.49	22.4	892.4	222
		4/17/13	7.43	22.6	903.8	223
		5/14/13	7.53	23.2	881.7	214
		6/5/13	7.29	33.9	862.7	201
		7/12/13	7.29	23.5	897.2	211
7/12/13 DUP	7.29	23.5	897.2	200		
8/9/13	7.43	23.5	898.6	207		
9/5/13	7.56	23.8	893.6	214		
10/10/13	7.39	22.6	873.7	197		
11/6/13	7.58	21.8	852.3	202		
12/3/13	7.50	23.1	843.4	199		
1/13/14	7.12	21.9	885.6	197		
2/5/14	7.46	22.4	833.3	198		
3/5/14	7.59	22.8	813.3	168		
4/7/14	7.49	22.9	834.2	187		
5/13/14	7.56	23.4	819.8	186		
6/23/14	7.62	24.5	806.7	188		
7/10/14	7.57	23.8	826.2	187		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
NWC-04	551849	8/11/14	7.59	23.5	824.0	187		
		9/9/14	7.50	24.0	789.5	163		
		10/13/14	7.39	24.5	802	175		
		11/14/14	7.46	22.9	835.4	183		
		12/10/14	7.33	23.3	840.7	189		
		2/12/15	7.81	20.3	856.4	177		
		4/9/15	7.41	24.6	823.2	182		
		7/30/15	7.60	24.5	935.6	195		
		10/6/15	7.54	23.2	866.8	225		
		1/12/16	7.57	22.7	811.2	188		
		4/5/16	7.47	23.9	847.7	192		
		7/26/16	7.45	23.8	907.3	187		
		11/2/16	7.32	23.0	900.6	181		
		1/26/17	7.41	23.1	851.9	195		
		4/6/17	7.33	23.2	846.8	176		
		7/18/17	7.23	23.9	844.7	201		
		11/14/17	7.31	23.3	860.1	193		
		1/16/18	7.30	23.4	809.6	181		
		5/2/18	7.41	23.7	854.1	192		
		7/18/18	7.32	23.2	863.5	195		
		10/16/18	7.40	23.6	850.1	210		
		10/16/18 DUP	7.40	23.6	850.1	210		
		1/7/19	7.38	24.0	848.3	196		
		5/14/19	7.39	23.9	845.5	190		
		5/14/19 DUP	7.39	23.9	845.5	190		
		7/9/19	7.06	24.9	857.2	195		
		10/15/19	7.38	24.3	855.4	195		
		1/16/20	7.59	23.3	863.1	199		
		7/22/20	7.34	25.0	861.3	200		
		11/23/20	7.49	24.1	913.5	182		
		1/12/21	7.41	24.2	840.4	198		
		4/1/21	7.38	23.6	839.3	194		
		7/22/21	7.29	23.5	862.5	190		
		12/14/21	7.34	23.6	864.3	195		
		2/1/22	7.22	23.7	839.5	181		
		5/3/22	7.47	24.1	850.7	170		
		7/14/22	7.42	25.5	819.9	189		
		12/30/22	7.79	13.6	978.6	181		
		NWC-06	575700	6/9/08	ND	ND	ND	7.2
				10/27/08	7.35	23.3	414	6.4
2/12/09	7.54			21.8	306	8		
4/23/09	7.30			24.5	354	7.3		
7/21/09	7.63			23.5	388	6.4		
10/21/09	7.26			23.2	413	8		
2/3/10	7.61			20.5	404	7.5		
2/3/10 DUP	7.61			20.5	404	7.4		
4/21/10	7.54			22.4	387	8.49		
7/20/10	7.33			26.0	388.6	8.59		
10/19/10	7.49			22.7	394.5	8.32		
1/18/11	7.45			23.4	380	8.24		
4/6/11	7.42			23.1	388.3	7.76		
4/6/11 DUP	7.42			23.1	388.3	7.73		
7/15/11	7.09			22.9	394.3	8.36		
10/13/11	7.51			22.3	340	8.48		
1/30/12	7.47			22.1	402.7	8.44		
4/25/12	7.34			22.5	410	7.11		
7/18/12	7.39			22.8	380	8.60		
10/10/12	7.62			21.9	393.6	9.33		
1/10/13	7.47			21.3	429.2	7.55		
4/17/13	7.66			21.1	404.1	8.82		
7/12/13	7.59			22.4	404.1	8.40		
10/10/13	7.56			21.6	403.3	8.38		
1/13/14	7.64			21.3	401.8	8.78		
4/7/14	7.65			21.7	403.7	8.62		
7/10/14	7.68			22.4	405.9	8.97		
7/10/14 DUP	7.68			22.4	405.9	8.99		
10/13/14	7.59			23.4	393	8.51		
2/12/15	7.60			21.2	405	8.12		
2/12/15 DUP	7.60			21.2	405	8.09		
7/30/15	7.66			22.6	406.5	8.20		
1/12/16	7.74			20.7	397.5	8.50		
7/26/16	7.58			21.8	409.1	8.69		
1/26/17	7.42			21.3	394.0	8.64		
7/18/17	7.35			21.4	405.6	8.35		
1/16/18	7.45			21.1	400.4	8.85		
7/18/18	7.38			21.2	407.2	8.35		
1/7/19	7.42			21.0	405.1	8.54		
7/9/19	7.09			22.0	411.3	6.99		
1/16/20	7.51	20.8	403.5	8.74				
7/22/20	7.47	21.9	412.0	8.75				
1/12/21	7.40	21.7	374.9	8.83				
7/22/21	7.35	21.1	412.0	9.46				
2/1/22	7.35	20.8	400.4	8.37				
7/14/22	7.45	22.8	391.4	9.02				
7/14/22 DUP	7.45	22.8	391.4	9.06				

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
OLMOS	224745	1/13/16	7.61	20.4	421.0	8.04
		7/14/16	7.58	22.5	445.9	7.97
		7/25/17	7.29	20.6	434.7	8.25
		7/13/18	7.31	20.6	446.1	7.58
		7/13/18 DUP	7.31	20.6	446.1	7.46
		7/8/19	7.07	21.5	429.7	6.55
		7/8/19 DUP	7.07	21.5	429.7	7.78
		8/5/20	7.20	21.3	438.3	7.52
		7/29/21	7.35	20.4	428.1	7.93
		7/12/22	7.39	20.5	441.3	8.32
OSBORN	643436	2/25/08	7.35	22.4	508	16.4
		5/13/08	7.22	22.2	576	17.2
		7/22/08	7.24	22.9	618	17.7
		7/22/08 DUP	7.24	22.9	618	17.5
		10/16/08	7.39	22.4	595	15.9
		1/20/09	7.33	22.4	469	16
		4/7/09	7.25	24.0	542	17
		8/18/09	7.16	24.6	643	17.4
		10/5/09	7.14	22.9	599	17.9
		1/21/10	7.47	19.5	591	15.6
		4/19/10	7.60	21.5	601.9	19.3
		7/12/10	7.69	24.2	594.0	18.4
		7/12/11	7.87	29.8	575.9	19.5
		2/3/12	8.15	15.3	390	19.2
		1/8/13	7.88	10.5	544.4	20.4
		7/8/13	7.56	39.2	510.3	19.2
		1/10/14	7.89	18.1	580.5	18.7
		7/7/14	7.84	29.2	496.3	18.0
		7/11/16	7.56	37.8	515.4	18.6
		7/31/17	7.74	25.6	548.4	19.3
7/31/17 DUP	7.74	25.6	548.4	18.7		
PALMER	578819	2/14/08	7.91	17.5	435	15.9
		5/13/08	7.92	22.9	508	16.6
		7/22/08	7.64	25.8	548	16.2
		10/16/08	7.61	17.0	527	15.9
		1/20/09	7.33	19.4	441	14.3
		4/8/09	7.65	19.1	475	15.4
		7/8/09	7.47	27.2	521	14.3
		10/5/09	7.81	22.2	538	16.2
		1/20/10	7.72	11.9	510	13.8
		4/22/10	7.97	13.6	520	16.7
		7/12/10	7.62	30.2	518.8	15.7
		10/18/10	8.13	22.1	511.9	16.5
		1/18/11	7.24	17.1	517.0	15.7
		4/5/11	8.04	19.0	499.2	15.8
		7/12/11	7.65	26.6	517.6	16.4
		10/11/11	7.85	22.0	510.4	17
		2/3/12	7.94	10.0	521.4	17.1
		4/11/12	7.52	18.7	519.8	17.3
		7/10/12	7.30	27.9	390	16.6
		10/3/12	8.09	25.7	526.7	17.6
		10/3/12 DUP	8.09	25.7	526.7	17.5
		1/9/13	7.9	17.5	532.8	16.8
		4/8/13	8.07	18.4	534.1	17
		7/17/13	7.74	22.3	531.0	17.2
		10/14/13	8.03	20.1	533.1	16.9
		1/6/14	7.82	11.9	517.4	17.4
		4/7/14	7.96	18.3	534.8	17.3
		7/7/14	8.07	23.9	534.4	18.3
		10/23/14	7.86	19.6	536.0	17.5
		7/20/15	7.95	25.9	540.1	17.6
		7/31/18	7.65	29.6	534.8	17.1
		7/11/19	8.16	28.0	538.6	16.7
		8/14/20	7.75	26.5	534.8	16.3
8/14/20 DUP	7.75	26.5	534.8	16.3		
7/20/21	8.41	27.2	488.7	16.8		
7/8/22	7.85	27.6	534.6	15.5		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
PANAGAKOS	35-76413	4/21/08	6.80	20.5	1228	410
		7/21/08	6.95	21.9	1390	444
		10/13/08	6.86	21.2	1386	480
		10/13/08 DUP	6.86	21.2	1386	500
		1/22/09	6.92	19.7	997	397
		4/9/09	6.81	21.7	1228	431
		4/9/09 DUP	6.81	21.7	1228	426
		7/9/09	6.89	22.3	1469	490
		10/6/09	6.83	21.1	1328	472
		1/21/10	7.06	18.8	1291	318
		4/20/10	7.25	21.0	1528	608
		7/20/10	6.90	24.0	1560	706
		10/18/10	6.38	22.1	1530	568
		7/14/11	6.93	23.3	1070	223
		8/25/11	7.17	23.4	1170	222
		2/6/12	6.98	20.8	1017	166
		2/29/12	7.09	20.3	1080	362
		3/15/12	7.02	21.4	1138	282
		4/12/12	6.90	20.9	1265	346
		4/12/12 DUP	6.90	20.9	1265	352
		7/9/12	6.82	22.2	1140	292
		11/27/12	7.51	20.1	1164	274
		2/6/13	7.05	19.9	1054	212
		4/9/13	7.24	19.7	1105	232
		7/10/13	7.26	21.4	1218	329
		10/15/13	7.14	20.5	1109	240
		1/10/14	7.23	19.6	1079	227
		4/16/14	7.17	20.4	1103	228
		7/17/14	7.13	21.4	1357	467
		10/16/14	6.9	22.1	1104	193
		1/26/15	7.11	19.6	1349	428
		7/27/15	7.03	22.2	1445	469
		1/11/16	7.18	18.9	1402	443
		1/11/16 DUP	7.18	18.9	1402	452
		2/24/17	7.19	19.1	1270	218
		2/24/17 DUP	7.19	19.1	1270	217
		7/17/17	7.13	20.2	1219	232
		1/18/18	7.08	19.0	1151	223
		1/18/18 DUP	7.08	19.0	1151	226
		7/30/18	6.96	20.5	1389	384
		1/15/19	6.91	18.5	1464	444
		7/8/19	6.90	21.4	1480	467
7/8/19 DUP	6.90	21.4	1480	476		
1/14/20	7.29	17.7	1450	457		
1/14/20 DUP	7.29	17.7	1450	461		
8/13/20	7.21	20.6	1254	231		
1/11/21	7.20	20.2	1189	227		
7/22/21	7.12	21.4	1126	185		
1/31/22	7.23	19.5	1173	245		
7/7/22	7.02	22.4	1408	463		
2/11/08	7.08	21.8	1067	360		
5/15/08	7.10	21.8	1200	405		
7/31/08	7.00	22.4	1248	423		
7/31/08 DUP	7.00	22.4	1248	404		
10/20/08	7.07	22.9	1246	387		
2/13/09	7.24	22.1	965	405		
4/20/09	7.10	22.6	971	372		
7/20/09	7.17	23.9	1174	375		
10/20/09	6.80	22.5	1188	388		
2/1/10	7.07	21.5	1197	353		
4/22/10	6.91	20.3	1219	417		
7/14/10	7.13	22.2	1201	403		
7/14/10 DUP	7.13	22.2	1201	391		
10/20/10	7.51	21.4	1270	411		
1/19/11	7.49	20.8	1130	391		
4/4/11	6.90	22.6	1207	382		
7/12/11	6.76	23.7	1156	404		
10/12/11	7.44	22.3	1070	406		
2/7/12	7.64	21.4	1212	428		
4/13/12	7.49	21.1	1204	402		
4/13/12 DUP	7.49	21.1	1204	390		
7/18/12	7.03	22.6	1210	418		
7/18/12 DUP	7.03	22.6	1210	419		
10/9/12	7.30	21.3	1209	428		
1/11/13	7.64	20.3	1217	413		
4/11/13	7.29	21.2	1206	427		
7/17/13	7.21	21.9	1212	411		
10/18/13	7.18	21.3	1212	406		
1/8/14	7.21	20.8	1221	437		
4/15/14	7.18	21.5	1213	416		
7/21/14	7.30	22.4	1193	432		
10/6/14	7.12	21.5	1133	413		
8/3/15	7.24	22.3	1193	391		
7/22/16	7.17	22.6	1151	392		
7/25/17	6.98	20.9	1194	426		
7/10/19	6.83	21.6	1170	382		
7/22/21	7.00	21.2	1137	360		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
PIONKE 395	613395	2/6/08	7.53	19.9	910	394		
		5/7/08	7.08	21.4	1100	391		
		7/17/08	6.99	21.9	1209	420		
		10/27/08	7.03	20.8	1175	460		
		1/29/09	7.13	19.9	847	385		
		4/14/09	7.58	20.7	1053	411		
		7/13/09	7.35	21.5	1165	472		
		10/7/09	7.43	21.1	1100	403		
		3/8/10	7.72	18.6	1201	406		
		4/26/10	7.22	21.9	1224	438		
		7/15/10	7.32	22.3	1158	474		
		10/18/10	7.33	21.3	1277	473		
		10/18/10 DUP	7.33	21.3	1277	487		
		1/19/11	7.32	19.9	1222	471		
		4/8/11	7.13	19.2	1232	467		
		7/12/11	7.30	23.8	1226	500		
		10/11/11	6.98	20.8	1100	502		
		2/1/12	7.25	17.5	1230	481		
		2/1/12 DUP	7.25	17.5	1230	495		
		4/12/12	7.17	22.1	1218	508		
7/11/12	6.59	22.9	1280	439				
10/17/12	7.16	22.3	1136	419				
PIONKE 517	221517	9/18/12	7.91	23.4	395.8	14		
		10/11/12	7.75	22.8	394.7	14.9		
		1/9/13	7.79	22.6	389.9	14.3		
		4/17/13	7.74	22.1	391.9	14.6		
		7/16/13	7.84	22.9	391.5	13.9		
		10/17/13	7.73	22.7	391.5	13.8		
		2/5/14	7.75	21.5	394.2	14.9		
		4/9/14	7.71	22.9	400.9	14.0		
		7/11/14	7.76	23.7	388.9	14.6		
		10/7/14	7.46	25.8	406	14.0		
		7/22/15	7.79	23.3	392.1	13.9		
		7/26/16	7.67	23.2	389.2	14.1		
		7/18/17	7.44	22.5	388.7	13.2		
		7/24/18	7.53	22.3	385.7	13.4		
		7/11/19	7.19	23.0	393.7	13.4		
		8/12/20	7.48	22.8	393.1	13.2		
		7/23/21	7.46	22.0	388.9	14.7		
		7/12/22	7.49	25.5	379	13.6		
		POOL	509518	2/20/08	7.95	20.9	497	134
				5/19/08	7.40	22.2	585	122
7/31/08	7.47			22.3	599	117		
10/21/08	7.51			21.4	598	120		
2/13/09	7.62			20.8	473	141		
4/21/09	7.73			22.6	470	124		
7/20/09	7.76			22.9	579	122		
10/20/09	7.22			21.2	577	122		
2/24/10	7.56			22.4	577	110		
4/22/10	7.75			20.2	606.5	130		
7/14/10	7.38			21.7	580.9	117		
10/20/10	7.79			21.3	620	115		
1/20/11	7.71			20.5	530	112		
1/20/11 DUP	7.71			20.5	530	114		
4/6/11	7.37			21.6	567.4	114		
8/1/18	7.47			24.2	580.9	113		
7/10/19	6.78			29.1	588.6	118		
8/10/20	7.40			25.6	581.5	108		
7/20/21	7.55			24.2	562.8	109		
POWER	624535			2/12/08	7.11	18.9	428	15.5
		7/22/08	7.10	21.7	795	20.2		
POWER 639	222639	1/16/14	7.38	20.9	1004	234		
		2/5/14	7.35	20.8	1004	328		
		3/5/14	7.39	21.3	991.4	187		
		4/15/14	7.38	21.6	999.4	249		
		5/13/14	7.40	21.4	990.9	206		
		6/23/14	7.44	21.9	886.4	117		
		7/17/14	7.40	22.1	861.3	168		
		8/11/14	7.50	21.8	864.9	136		
		9/9/14	7.49	21.7	850.4	105		
		1/27/15	7.27	22.0	922	291		
		3/10/15	7.35	21.9	1032	265		
		4/28/15	7.43	20.6	1002	308		
		5/14/15	7.32	21.3	991.4	269		
		6/11/15	7.26	22.0	1019	308		
		7/30/15	7.33	22.3	1014	287		
		1/14/16	7.46	19.7	985.7	298		
		7/27/16	7.27	22.2	992.0	301		
		1/26/17	7.14	20.9	989.9	317		
		7/12/17	7.16	20.8	1010	244		
		1/10/18	7.25	20.7	856.9	191		
		7/25/18	7.35	20.8	814.9	205		
		1/14/19	7.20	20.6	828.4	174		
		7/12/19	7.16	21.7	510.4	90.8		
		1/15/20	7.47	20.5	748.9	180		
		8/13/20	7.37	21.7	753.5	173		
		1/13/21	7.29	21.4	836.8	218		
		7/19/21	7.35	20.7	807.2	185		
		1/31/22	7.64	19.8	773.5	159		
		7/7/22	7.38	24	828.4	188		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
RAMIREZ	216425	2/4/08	7.47	21.7	408	7.6		
		5/6/08	7.19	22.7	405	8.3		
		7/17/08	7.32	24.5	439	8.8		
		10/27/08	7.41	22.2	412	7.3		
		1/29/09	7.24	22.2	301	8.3		
		4/16/09	7.49	22.4	344	7.6		
		7/10/09	7.52	23.9	411	6.4		
		10/6/09	7.30	23.8	388	8.4		
		1/25/10	7.48	22.4	390	7.8		
		4/21/10	7.45	22.6	397	9.04		
		7/21/10	7.38	25.1	420	8.98		
		10/19/10	7.91	23.7	450	10.8		
		1/18/11	7.52	23.1	380	8.18		
		4/11/11	7.24	23.2	408.5	8.65		
		7/18/11	7.27	25.4	402.6	8.44		
		10/12/11	7.40	23.3	412.7	8.55		
		1/30/12	7.38	22.3	412.2	8.80		
		4/10/12	7.40	23.2	404.5	8.70		
		7/6/12	7.32	24.2	415.7	8.97		
		10/8/12	7.61	22.5	412.0	9.14		
		10/8/12 DUP	7.61	22.5	412.0	9.07		
		1/17/13	7.52	22.2	409.6	8.82		
		4/19/13	7.6	22.1	413.9	8.63		
		7/15/13	7.58	23.6	416.2	8.19		
		10/7/13	7.68	22.6	412.7	8.37		
		1/13/14	7.63	21.9	409.8	8.79		
		4/14/14	7.55	22.2	417.5	8.67		
		7/10/14	7.58	23.2	413.5	8.92		
		10/17/14	7.36	23	422.0	8.67		
		7/21/15	7.54	23.7	414.6	8.46		
		7/14/16	7.55	23.6	420.5	8.57		
		7/26/17	7.37	22.0	414.5	9.00		
		7/25/18	7.35	22.1	420.2	8.35		
		7/9/19	6.95	22.8	432.8	6.67		
		8/6/20	7.31	22.6	423.1	7.96		
		7/29/21	7.30	21.6	409.2	8.82		
		7/29/21 DUP	7.30	21.6	409.2	8.68		
		7/7/22	7.55	21.8	405.8	9.12		
		RAY	803772	2/15/08	7.30	19.1	1540	159
				4/21/08 ¹	6.92	21.3	1418	125
5/13/08 ¹	7.05			20.9	1418	123		
6/23/08 ¹	6.87			21.1	1593	130		
7/29/08 ¹	6.98			21.8	1411	120		
8/28/08 ¹	M			21.1	1519	129		
9/23/08 ¹	6.90			22.2	1519	125		
10/22/08	6.96			20.8	1604	145		
1/20/09	6.92			20.6	1355	88		
4/8/09	6.85			21.4	1759	178		
7/9/09	6.93			22.3	1434	126		
10/7/09	6.98			21.3	1288	127		
1/26/10	6.82			20.6	1352	125		
4/20/10	7.14			21.5	1318	134		
7/14/10	7.11			23.8	1313	137		
10/20/10	7.14			19.6	1368	127		
1/17/11	7.04			20.8	1451	132		
1/17/11 DUP	7.04			20.8	1451	125		
4/5/11	7.03			20.8	1387	132		
7/11/11	7.07			22.8	1345	126		
10/12/11	7.06			21.6	1250	130		
1/31/12	7.28			20.5	1360	131		
4/11/12	7.03			20.6	1359	131		
7/6/12	7.11			22.1	1430	129		
10/3/12	7.12			21.1	1464	130		
1/17/13	7.05			19.5	1527	126		
1/17/13 DUP	7.05			19.5	1527	140		
4/8/13	7.32			20	1476	131		
7/9/13	7.18			21.4	1451	128		
10/15/13	7.13			20.8	1487	135		
1/14/14	7.25			19.2	1433	133		
4/8/14	7.09			20.8	1502	146		
7/8/14	7.14			21.4	1409	147		
10/22/14	6.88			21.6	1422	147		
8/3/15	7.22			21.4	1360	133		
7/12/16	7.03			21.6	1419	133		
7/26/17	6.93			19.8	1288	142		
7/31/18	6.89			19.8	1493	138		
7/31/18 DUP	6.89			19.8	1493	139		
7/19/19	6.86			19.7	1465	132		
8/13/20	6.80			20.5	1362	136		
7/23/21	6.88			20.5	1701	209		
7/23/21 DUP	6.88			20.5	1701	209		
7/6/22	7.17			21.4	1509	146		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
ROGERS 596	573596	10/19/09	6.89	23.3	1360	590		
		11/5/09	6.79	21.9	1418	540		
		2/25/10	6.99	19.6	1603	520		
		4/22/10	7.21	18.2	1641	710		
		1/18/18	6.85	18.9	1431	655		
		7/26/18	6.85	22.9	1644	735		
		1/14/19	6.83	17.9	1651	757		
		7/22/19	6.84	25.9	1714	835		
		1/22/20	6.68	19.4	1621	831		
		8/11/20	6.86	23.1	1518	666		
		7/22/21	6.90	22.3	1439	651		
		2/1/22	6.93	17.9	1537	663		
		7/8/22	6.96	23	1386	541		
ROGERS 803	641803	2/7/08	7.45	18.6	601	138		
		4/21/08 ¹	7.32	21.4	552	128		
		5/8/08 ¹	7.14	21.2	622	141		
		6/23/08 ¹	7.06	22.9	660	129		
		7/29/08 ¹	6.78	23.1	339	134		
		8/28/08 ¹	7.18	21.6	635	128		
		9/23/08 ¹	7.24	21.9	599	133		
		10/22/08	7.36	21.3	650	144		
		2/10/09	7.42	17.9	475	141		
		4/29/09	7.52	21.9	506	211		
		8/3/09	7.39	24.2	674	150		
		7/16/10	7.46	23.9	643.4	169		
		10/19/10	7.32	21.1	643.8	154		
		10/19/10 DUP	7.32	21.1	643.8	154		
		1/20/11	7.44	18.1	610	143		
		4/8/11	7.30	20.2	658.2	160		
		7/14/11	7.12	23.5	653.5	166		
		10/12/11	7.41	21.8	665.3	175		
		1/30/12	7.40	20.0	580	171		
		4/23/12	7.32	23.9	720	166		
		7/13/12	7.26	24.0	820	171		
		7/13/12 DUP	7.26	24.0	820	166		
		10/10/12	7.41	24.3	671.4	177		
		1/15/13	7.37	16.9	681.1	174		
		4/15/13	7.57	23.8	698	190		
		7/15/13	7.39	23.6	697.8	184		
		10/16/13	7.47	25.4	710.6	185		
		1/9/14	7.46	21.4	701.8	190		
		4/11/14	7.52	26.1	711.3	190		
		7/18/14	7.48	24.9	709.2	192		
		9/30/17	7.03	21.5	1396	572		
		ROGERS E	216018	2/4/08	7.40	21.0	435	4.6
				5/7/08	7.18	22.2	415	5.9
7/17/08	7.28			23.0	446	7.1		
10/27/08	7.38			21.4	434	15.7		
2/10/09	7.51			20.7	322	5.4		
4/16/09	7.48			22.0	361	4.9		
7/13/09	7.34			22.6	420	3.8		
10/6/09	7.31			22.3	407	5.8		
1/25/10	7.52			20.6	414	5.1		
4/21/10	7.44			21.1	421	6.04		
7/21/10	7.37			23.8	430	6.47		
10/19/10	7.80			22.8	460	5.92		
1/18/11	7.39			21.5	390	5.50		
4/11/11	7.19			22.7	427.2	6.13		
7/18/11	7.12			24.3	418.5	6.00		
10/13/11	7.52			22.2	370	5.99		
1/30/12	7.38			20.8	427.2	6.22		
4/10/12	7.37			22.1	421.8	6.31		
7/17/12	7.32			22.7	420	5.85		
10/17/12	7.55			21.7	429.0	6.04		
1/17/13	7.46			21.5	431.5	6.01		
4/18/13	7.63			21.3	433.5	6.26		
7/17/13	7.59			22.1	427.7	6.05		
7/17/13 DUP	7.59			22.1	427.7	6.28		
10/10/13	7.51			21.9	436.9	5.8		
1/7/14	7.49			21.0	434.0	6.24		
4/14/14	7.59			21.4	431.2	6.11		
7/10/14	7.54			22.4	428.5	6.41		
10/17/14	7.31			22.6	452	5.81		
7/30/15	7.57			22.9	430.3	5.90		
7/14/16	7.58			22.7	430.2	6.71		
7/26/17	7.31			21.3	429.3	6.86		
2/23/18	7.32			21.0	423.0	6.20		
7/13/18	7.33			20.8	430.3	6.32		
1/11/19	7.27			20.6	418.5	6.51		
7/12/19	7.31			20.8	429.5	6.76		
1/20/20	6.77			21.1	432.8	6.30		
8/7/20	7.35			21.5	431.2	6.62		
1/12/21	7.33			21.3	437.8	6.79		
7/14/21	7.34			20.6	446.7	8.94		
2/1/22	7.46	20.4	455.1	7.65				
7/11/22	7.43	22.0	470.3	8.65				

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
RUIZ	531770	2/5/08	7.73	18.2	445	263
		5/15/08	7.23	25.9	965	265
		7/30/08	6.99	22.1	999	243
		10/20/08	7.04	22.0	995	238
		2/12/09	6.94	20.9	748	254
		4/21/09	7.18	22.3	759	227
		8/3/09	7.05	22.9	1029	221
		10/28/09	7.09	20.6	920	227
		2/1/10	7.08	20.9	934	236
		4/26/10	7.01	22.5	920.1	240
		7/20/10	7.08	22.5	880	240
		10/20/10	7.52	20.7	970	231
		1/18/11	7.19	20.2	860	213
		4/8/11	7.09	19.8	923.3	236
		8/26/11	6.85	22.6	800	220
		10/13/11	7.19	21.5	810	230
		2/7/12	7.28	20.7	915.6	230
		2/7/12 DUP	7.28	20.7	915.6	228
		4/13/12	7.04	21.1	896.5	203
		7/18/12	6.87	21.6	900	214
		10/9/12	7.18	21.4	890.6	229
		1/11/13	7.21	20.7	895.8	219
		1/11/13 DUP	7.21	20.7	895.8	211
		4/11/13	7.26	21.9	876.8	229
		7/25/13	7.13	21.4	887.3	228
		10/17/13	7.23	20.8	891.9	210
		1/8/14	7.32	20.5	886.8	220
		4/15/14	7.26	21.2	873.5	215
		8/11/14	7.32	21.2	869.2	221
		10/21/14	7.09	21.4	886	209
		10/21/14 DUP	7.09	21.4	886	212
		1/27/15	7.14	21.4	853	215
		7/30/15	7.2	21.9	865.8	191
		1/12/16	7.29	19.9	831.3	190
		7/25/16	7.17	21.2	854.5	183
		1/26/17	7.09	20.4	844.2	194
		7/25/17	7.06	20.5	850.8	190
		1/16/18	7.03	20.1	829.4	185
		7/24/18	7.02	20.7	827.2	180
		1/15/19	7.00	19.8	824.6	170
7/10/19	6.86	20.9	828.4	169		
1/16/20	7.20	19.6	809.9	176		
RUIZ 146	232146	8/12/20	7.12	22.1	673.5	117
		1/12/21	7.22	21.1	632.6	103
		7/21/21	7.29	20.9	635.0	102
		2/1/22	7.32	20.4	618.3	89.7
		7/12/22	7.27	23	620.1	94.1

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
SCHWARTZ	210865	2/8/08	7.52	21.5	506	158		
		4/21/08 ¹	7.23	21.7	563	122		
		5/19/08 ¹	7.38	22.4	629	130		
		6/23/08 ¹	7.02	22.1	674	129		
		7/29/08 ¹	7.25	22.4	955	245		
		8/28/08 ¹	M	22.3	669	131		
		9/23/08 ¹	7.27	22.2	607	124		
		10/22/08 ¹	7.31	22.0	653	135		
		11/19/08 ¹	7.38	21.1	612	140		
		12/17/08 ¹	6.78	21.6	472	144		
		1/29/09 ¹	7.08	22.0	475	124		
		2/23/09 ¹	7.33	22.1	610	123		
		4/17/09	7.46	22.2	520	120		
		7/10/09	7.52	22.8	651	116		
		7/10/09 DUP	7.52	22.8	651	117		
		10/6/09	7.27	22.5	613	120		
		1/22/10	7.79	19.5	664	133		
		4/21/10	7.50	20.9	638	129		
		7/21/10	7.43	22.0	650	134		
		10/19/10	7.76	21.2	710	147		
		1/17/11	7.15	21.2	620	116		
		4/11/11	7.20	21.5	656.9	128		
		7/18/11	7.36	23.7	612.4	116		
		10/12/11	7.35	22.4	635.8	124		
		2/6/12	7.32	21.3	629.7	116		
		2/6/12 DUP	7.32	21.3	629.7	114		
		4/10/12	7.48	21.6	626.1	120		
		7/16/12	7.31	21.9	710	117		
		10/17/12	7.48	21.6	645	121		
		3/13/13	7.57	20.7	623.6	118		
		5/14/13	7.61	21.5	629.7	112		
		7/15/13	7.49	22.1	770.2	198		
		10/14/13	7.55	20.9	633.3	109		
		1/13/14	7.61	20.6	663.1	125		
		4/9/14	7.48	21.5	635.9	110		
		7/18/14	7.45	21.8	790.5	216		
		10/22/14	7.28	22	646.0	119		
		2/3/15	7.35	22.4	714	125		
		2/3/15 DUP	7.35	22.4	714	126		
		8/4/15	7.49	22.5	641.8	109		
		1/14/16	7.55	20.6	678.3	134		
		7/27/16	7.51	22.3	621.3	103		
7/27/16 DUP	7.51	22.3	621.3	102				
1/24/17	7.33	20.3	650.6	120				
7/11/17	7.29	20.6	627.0	103				
7/11/17 DUP	7.29	20.6	627.0	102				
1/9/18	7.26	20.5	619.5	97.2				
7/11/18	7.33	20.4	622.9	96.2				
1/9/19	7.24	20.4	671.2	131				
1/22/20	6.86	21.0	721.7	155				
7/22/20	7.26	21.2	686.1	138				
1/8/21	7.28	21.0	709.3	156				
1/8/21 DUP	7.28	21.0	709.3	148				
7/20/21	7.30	20.4	726.5	156				
2/1/22	7.38	17.3	732.7	162				
7/13/22	7.35	22.8	715.2	145				
SRC	211345	4/23/08	7.57	25.8	380	19		
SWAN	NR	8/5/08	7.40	27.2	452	15.4		
		2/13/08	7.28	20.7	467	24.1		
		5/14/08	7.24	21.2	479	23.7		
		7/24/08	7.35	22.4	506	18		
		10/16/08	7.32	20.7	488	19		
		1/20/09	7.05	20.4	391	19.8		
		4/7/09	7.21	21.5	447	19.9		
		7/8/09	7.18	23.1	473	18.5		
		10/5/09	7.18	21.4	496	19.7		
		1/21/10	7.49	19.5	501	18.4		
		4/21/10	7.42	20.3	512.1	20.9		
		7/19/10	7.13	23.8	518.6	22.2		
		1/18/11	7.19	17.8	483.6	18.7		
		7/12/11	7.05	22.4	478.2	19.1		
		2/3/12	7.40	20.5	484.5	20.1		
		2/3/12 DUP	7.40	20.5	484.5	19.5		
		7/10/12	7.00	22.7	370	19.4		
		1/11/13	7.38	20.0	489.0	19.3		
		7/8/13	7.45	22.8	489.7	19.4		
		1/10/14	7.65	19.7	428.6	19.2		
		7/7/14	7.44	21.8	464.7	19.4		
		7/20/15	7.45	23.0	491.2	18.8		
		7/20/15 DUP	7.45	23.0	491.2	18.9		
		7/11/16	7.30	22.6	504.7	18.6		
		7/27/17	7.13	20.9	500.8	18.5		
		7/31/18	7.10	20.9	557.7	20.1		
		3/18/19	7.46	20.6	419.4	6.63		
		7/19/19	7.31	20.1	447.3	6.25		
		8/13/20	7.38	21.6	453.6	6.76		
		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

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
THOMPSON 341	218341	5/29/13	7.22	24.4	415.9	7.32
		8/9/13	7.57	22.2	420.0	7.62
		10/9/13	7.49	21.6	425.2	7.54
		1/16/14	7.53	21.5	432.7	7.48
		4/14/14	7.50	21.6	425.8	7.68
		7/21/14	7.48	22.3	414.2	8.02
		10/22/14	7.23	22.3	430	8.02
		8/3/15	7.50	23.1	425.7	7.52
		7/15/16	7.45	22.4	420.8	8.46
		7/28/17	7.24	21.2	422.4	8.33
		7/26/18	7.34	21.0	420.6	8.27
		7/10/19	7.15	21.7	418.3	6.44
		8/12/20	7.29	21.6	420.3	7.85
		7/29/21	7.23	20.8	417.6	8.21
7/7/22	7.38	21.5	419.3	8.24		
TM-02A	522574	3/4/08	8.67	22.6	302	12.3
		5/23/08	7.75	22.9	321	14.7
		8/15/08	7.84	26.4	369	14.4
		10/30/08	8.07	23.9	375	21.9
		2/24/09	8.10	24.8	340	20.3
		5/6/09	8.06	26.7	320	18.7
		8/12/09	8.34	26.9	398	20
		11/4/09	8.16	26.3	381	21.8
		3/10/10	8.13	25.2	351	21.4
		3/10/10 DUP	8.13	25.2	351	21.3
		4/6/10	6.96	24.6	363	25.6
		7/6/10	7.38	24.6	343	22.1
		2/10/11	6.93	20.2	359	22.9
		7/13/11	7.92	24.8	349	22.5
		2/2/12	7.89	22.2	360	23.0
		8/14/12	7.65	24.6	366	23.4
		2/15/13	7.72	22.2	369	22.1
		8/27/13	7.72	24.7	414	23.5
		2/18/14	7.54	24.3	388	24.5
		8/12/14	7.62	24.7	395	25.6
		8/1/17	7.84	24.7	333	21.5
8/8/19	8.02	24.4	359	19.4		
7/15/21	8.14	24.9	359	20.1		
TM-03	522575	5/20/08	7.51	22.2	778	110
		8/6/08	7.08	21.6	828	97
		11/12/08	7.47	20.5	590	128
		2/26/09	7.21	21.8	737	107
		2/26/09 DUP	7.21	21.8	737	102
		5/13/09	7.47	22.2	695	109
		8/18/09	7.48	22.4	822	98
		11/10/09	7.55	21.8	761	106
		3/2/10	7.56	21.6	748	99
		4/14/10	7.55	20.6	635	103
		7/7/10	7.19	21.4	566	103
		2/1/12	7.48	21.1	744	112
		2/27/08	7.44	19.6	457	13.9
		5/20/08	7.50	20.7	506	32.7
8/4/08	7.41	20.7	529	31.3		
10/29/08	7.55	20.2	531	34.5		
2/26/09	7.18	20.4	574	32.7		
5/13/09	7.35	20.9	465	30.6		
8/18/09	7.50	20.9	560	30.9		
8/18/09 DUP	7.50	20.9	560	29.9		
11/12/09	7.53	20.4	530	31.1		
4/14/10	7.35	19.4	461	29.0		
7/2/10	7.24	20.1	438	29.8		
7/21/11	7.1	20.1	516	31.7		
7/9/12	6.82	20.8	505	33.5		
2/14/13	6.92	19.6	527	31.1		
8/19/13	7.21	19.9	556	32.5		
7/21/14	7.17	19.9	551	33.0		
7/26/17	7.27	20.4	521	34.5		
7/31/19	7.40	20.5	531	35.6		
7/21/21	7.49	20.5	536	37.3		
TM-06 MILLER	522695	5/20/08	7.44	19.6	457	13.9
		5/20/08	7.50	20.7	506	32.7
		8/4/08	7.41	20.7	529	31.3
		10/29/08	7.55	20.2	531	34.5
		2/26/09	7.18	20.4	574	32.7
		5/13/09	7.35	20.9	465	30.6
		8/18/09	7.50	20.9	560	30.9
		8/18/09 DUP	7.50	20.9	560	29.9
		11/12/09	7.53	20.4	530	31.1
		4/14/10	7.35	19.4	461	29.0
		7/2/10	7.24	20.1	438	29.8
		7/21/11	7.1	20.1	516	31.7
		7/9/12	6.82	20.8	505	33.5
		2/14/13	6.92	19.6	527	31.1
		8/19/13	7.21	19.9	556	32.5
		7/21/14	7.17	19.9	551	33.0
		7/26/17	7.27	20.4	521	34.5
7/31/19	7.40	20.5	531	35.6		
7/21/21	7.49	20.5	536	37.3		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-07	522576	3/6/08	7.54	20.8	726	22.5
		5/22/08	6.96	20.1	385	22.9
		8/6/08	7.04	22.8	519	22.2
		11/4/08	7.76	20.6	347	31.2
		2/20/09	7.77	19.9	376	22.5
		5/13/09	7.30	22.9	559	130
		8/17/09	7.60	22.6	442	134
		11/3/09	7.85	21.8	441	134
		3/2/10	7.67	21.6	422	124
		5/25/10	7.77	21.2	398	42.6
		7/6/10	7.58	22.0	350	44.7
		2/11/11	6.87	20.1	393	24.9
		7/21/11	6.90	21.4	402	41.7
		2/9/12	7.15	23.0	670	171
		8/13/12	6.83	21.7	415	25.4
		2/27/13	6.81	19.9	380	25.6
		8/28/13	7.36	21.2	369	25.0
		2/13/14	6.99	20.4	372	27.4
		8/21/14	7.35	20.6	358	48.5
		2/4/15	7.58	21.0	375	102
		9/15/15	7.36	21.5	411	91.3
		3/14/16	7.46	21.4	419	130
		9/15/16	7.47	21.2	638	123
		3/1/17	7.59	20.8	581	129
		8/2/17	7.56	21.5	563	129
		2/12/18	7.78	20.4	544	133
		8/6/18	7.52	21.8	586	116
		2/5/19	7.71	20.7	568	114
		8/19/19	7.50	21.1	619	94.1
		2/10/20	7.61	20.8	614	117
		3/17/21	7.39	20.8	621	109
		8/16/21	7.32	22.0	612	114
2/1/22	7.26	20.7	618	113		
8/1/22	7.30	22.1	624	114		
2/13/08	7.63	24.1	511	24.1		
5/14/08	7.44	24.4	480	12.6		
7/23/08	7.76	28.1	522	12.6		
12/8/11	6.95	19.6	381	16.8		
3/15/12	7.85	20.2	382.3	15.1		
4/24/12	7.88	21.0	280	13.4		
4/24/12 DUP	7.88	21.0	280	13.3		
9/13/12	8.09	21.1	407	13.3		
10/19/12	8.17	21.0	428.2	12.8		
3/7/13	8.33	21.2	415.1	12.7		
4/17/13	8.27	20.3	423.9	12.8		
7/23/13	8.16	21.4	426.1	13.2		
11/6/13	7.90	21.3	386.5	4.81		
11/6/13 DUP	7.90	21.3	386.5	4.64		
1/15/14	7.91	21.1	424.4	3.98		
5/15/14	7.98	20.4	410.6	5.12		
7/15/14	7.86	21.4	421.9	5.46		
10/16/14	7.51	22.0	439	4.16		
1/28/15	7.75	23.0	413	3.96		
7/24/15	7.87	22.6	478.8	4.38		
2/2/16	7.95	19.8	493.5	5.32		
7/13/16	7.73	22.0	514.9	6.67		
1/27/17	7.75	21.3	418.4	4.81		
7/17/17	7.77	23.5	409.5	8.01		
1/8/18	7.60	20.8	387.3	6.80		
7/9/18	7.92	23.5	391.4	8.65		
1/8/19	7.54	20.6	381.8	12.8		
7/16/19	7.67	21.5	378.6	15.0		
1/6/20	7.78	20.1	376.0	14.9		
8/3/20	7.62	21.4	374.5	14.1		
1/5/21	7.75	22.5	369.5	14.5		
7/12/21	7.66	20.5	365.5	15.6		
1/24/22	7.72	20.7	363.0	13.2		
7/19/22	7.96	23.5	361.2	13.5		
TM-08 SWAN	522817					
TM-10 USBP	522696					

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
TM-15 MILLER	522699	2/27/08	7.66	21.9	344	14
		5/23/08	7.54	22.1	371	14.4
		8/5/08	7.42	23.3	413	13.7
		10/28/08	7.63	22.6	387	18.6
		10/28/08 DUP	7.63	22.6	387	18.8
		2/26/09	7.57	22.0	373	14.6
		5/13/09	7.61	23.1	344	13.7
		8/17/09	7.73	23.2	398	14.2
		11/3/09	7.73	23.4	414	14.8
		2/24/10	7.66	22.8	381	14.4
		4/27/10	7.71	23.0	383.6	14.9
		7/20/10	7.77	23.0	324	14.3
		7/12/11	7.36	23.2	380	14.2
		7/10/12	7.04	23.7	379	14.9
		2/12/13	6.96	21.7	393	14.6
		9/4/13	7.2	22.8	412	14.8
		7/22/14	7.18	23.2	407	14.6
		9/8/15	7.19	23.0	411	14.7
		9/14/16	7.45	23.1	381	14.5
		8/1/17	7.38	22.9	384	14.8
		7/18/18	7.46	23.1	386	14.8
		8/19/19	7.59	22.7	387	14.6
8/24/20	7.61	22.9	386	14.9		
7/12/21	7.73	23.3	387	14.8		
7/25/22	7.53	22.9	396	16.1		
TM-16	522578	3/5/08	7.17	20.6	1351	497
		5/22/08	7.05	20.5	1304	522
		8/6/08	6.67	20.9	1410	466
		11/5/08	7.14	19.8	1162	547
		2/20/09	6.90	21.1	1292	492
		5/13/09	6.93	21.1	1179	484
		8/19/09	7.08	21.2	1354	468
		11/10/09	7.02	21.0	1310	505
		3/2/10	7.13	20.4	1313	451
		4/14/10	6.90	19.9	987	484
		7/2/10	6.81	20.8	858	474
		7/14/11	6.97	20.5	1285	511
		7/16/11	6.97	20.5	1285	513
		7/9/12	6.95	21.0	1292	544
		8/15/13	6.86	20.3	1374	539
		8/4/14	6.79	20.6	1368	550
		7/12/17	6.87	20.9	1321	536
		7/30/19	7.15	21.0	1310	479
		7/15/21	7.06	21.2	1302	499
		TM-19A	522581	3/6/08	8.02	22.2
5/22/08	7.36			24.0	501	64.5
8/6/08	7.32			22.6	494	55.3
11/18/08	7.79			24.3	365	66.3
3/3/09	7.41			24.5	489	66.2
4/22/09	7.44			24.3	494	62.5
8/12/09	7.61			24.4	554	61.3
11/4/09	7.47			24.2	522	63
3/10/10	7.54			22.9	511	60.6
4/9/10	6.49			23.0	435	66.5
7/7/10	6.93			23.8	428	63.2
2/14/11	6.69			21.4	511	61.9
7/15/11	7.11			24.1	499	62.1
2/2/12	7.13			22.5	498	62.2
7/10/12	7.12			23.5	505	63.7
2/15/13	6.74			23.2	522	60.1
9/4/13	7.11			23.8	538	61.3
2/12/14	6.93			23.6	548	62.8
7/21/14	7.06			24.2	542	63.3
9/10/15	7.31			24.0	502	61.4
8/18/16	7.27			24.1	505	64.7
7/26/17	7.27			24.1	505	64.6
7/25/18	7.49			24.3	511	71.4
8/7/19	7.41			24.1	510	56.6
8/17/20	7.52			23.5	515	59.2
8/18/21	7.47	24.1	504	62.0		
7/25/22	7.42	24.2	519	63.3		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)		
TM-42	562554	3/5/08	7.10	20.8	1342	482		
		5/22/08	7.05	21.4	1270	483		
		8/6/08	6.69	22.0	1388	467		
		11/6/08	6.90	21.0	1025	477		
		2/18/09	6.72	22.3	1245	429		
		5/7/09	6.88	24.5	1155	430		
		5/7/09 DUP	6.88	24.5	1155	445		
		8/18/09	7.04	24.4	1336	428		
		11/3/09	7.07	23.1	1266	430		
		2/24/10	7.13	22.7	1236	390		
		4/19/10	6.87	21.5	985	444		
		7/2/10	6.81	23.9	827	407		
		7/12/11	6.83	22.0	1205	441		
		2/9/12	6.76	20.5	1172	444		
		7/11/12	6.72	21.1	1155	449		
		2/12/13	6.69	20.2	1185	400		
		8/28/13	6.89	21.3	1212	416		
		7/21/14	6.85	21.4	1205	418		
		7/26/17	6.98	21.6	1234	485		
		8/7/19	6.99	21.7	1371	527		
7/21/21	6.93	21.8	1500	676				
TM-43	564729	3/3/08	8.57	21.0	341	2.1		
		8/4/08	8.14	25.7	436	<5		
TM-43A	564726	3/3/08	6.17	19.9	2788	1420		
		8/4/08	6.03	21.6	3149	1320		
TM-43B	565004	3/3/08	6.79	20.6	514	0.7		
		8/5/08	6.89	21.0	507	31.8		
		8/5/08 DUP	6.89	21.0	507	32.5		
TVI 236	802236	3/20/08	7.48	20.0	488	31.3		
		5/7/08	7.13	20.4	494	32.6		
		7/15/08	7.39	21.9	532	37.6		
		10/15/08	7.45	22.3	490	36.6		
		2/11/09	7.32	20.1	391	27.6		
		4/17/09	7.36	19.3	418	28.1		
		4/17/09 DUP	7.36	19.3	418	28.3		
		7/21/09	7.59	22.9	484	31.3		
		10/19/09	7.31	22.1	513	33.2		
		2/2/10	7.39	20.4	497	26		
		4/23/10	7.46	20.0	504.6	30.9		
		7/15/10	7.37	21.5	499.4	39.3		
		7/15/11	6.80	22.4	499.6	42.9		
		7/16/12	7.30	21.1	500	36.3		
		10/9/12	7.56	20.4	513.7	40.9		
		7/18/13	7.38	20.9	514.4	42.4		
		7/16/14	7.41	21.1	517.3	43.9		
		7/30/15	7.43	20.5	529.1	16.5		
		1/12/16	7.57	19.5	505.8	44.1		
		9/26/16	7.42	19.0	511.4	15.1		
		1/27/17	7.32	19.3	519.5	47.0		
		7/31/17	7.04	19.0	532.5	15.8		
		1/17/18	7.30	18.6	531.3	29.5		
		7/27/18	7.22	19.3	535.8	17.5		
		1/16/19	7.41	18.5	530.8	29.0		
		TVI 875	568875	2/21/08	7.28	21.1	739	244
				5/7/08	7.09	21.2	833	250
				7/15/08	7.27	22.4	925	274
				10/15/08	7.26	22.1	878	245
				2/11/09	7.20	20.7	738	312
4/17/09	7.31			21.5	690	251		
7/21/09	7.47			22.2	812	236		
10/19/09	7.23			21.9	822	247		
2/2/10	7.32			20.8	939	250		
4/23/10	7.34			20.2	930.4	294		
7/15/10	7.46			21.8	842.5	262		
10/20/10	7.79			21.9	890	242		
1/20/11	7.39			21.0	780	226		
4/11/11	7.20			21.1	820.6	235		
7/15/11	6.75			22.2	791.9	239		
10/12/11	7.35			22.7	868.5	262		
2/3/12	7.20			20.5	850	299		
4/25/12	7.19			21.3	840	267		
7/16/12	7.13			22.2	860	261		
7/16/12 DUP	7.13			22.2	860	267		
10/9/12	7.39			20.9	882.8	281		
2/6/13	7.23			20.8	946.1	335		
4/10/13	7.35			20.9	907.6	296		
7/18/13	7.31			21.4	994.2	355		
10/8/13	7.35			21.0	894.6	275		
1/9/14	7.23			20.3	917.4	305		
4/9/14	7.31			20.9	910.7	296		
7/16/14	7.30			21.6	940.2	328		
10/9/14	7.12			21.2	963	245		
7/30/15	7.35			22.1	915.4	277		
7/14/16	7.28	21.6	919.1	271				
7/13/17	7.19	20.1	920.0	303				
7/12/18	7.16	20.0	928.8	309				
7/18/19	7.09	19.8	972.2	325				
2/13/08	200393	7.05	20.2	650	20			
WALKER		7/23/08	7.25	20.7	740	45.4		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
WEED	544535	2/14/08	7.74	21.7	323	11.1
		5/15/08	7.22	22.7	365	12.6
		7/30/08	7.42	32.0	407	11.5
		10/20/08	8.10	31.6	405	10.2
		2/13/09	7.66	21.0	303	12.6
		4/22/09	7.46	22.2	368	11.6
		7/16/09	7.50	21.9	365	10.8
		10/20/09	7.34	21.6	381	12.7
		2/1/10	7.60	20.8	382	12.2
		4/26/10	7.69	22.1	366	13.4
		7/21/10	7.36	22.1	354.9	13.6
		7/21/10 DUP	7.36	22.1	354.9	13.5
		10/19/10	7.63	21.2	378.8	11.7
		1/19/11	7.62	21.1	383.6	12.2
		4/11/11	7.44	21.5	386.6	13
		7/18/11	7.56	22.0	379.3	12.7
		10/12/11	7.02	21.7	382.8	13.3
		2/6/12	7.60	21.4	385.0	13.5
		4/25/12	7.60	22.1	360	12.7
		7/5/12	7.64	21.7	385.8	12.9
		10/9/12	7.66	21.5	385.1	14.0
		2/7/13	7.7	21.4	389.7	14.0
		2/7/13 DUP	7.7	21.4	389.7	13.2
		4/10/13	7.76	20.6	383.9	13.0
		7/19/13	7.63	21.3	386.6	14.2
		10/18/13	7.72	21.1	387.3	13.1
		1/15/14	7.73	20.7	388.4	13.4
		4/10/14	7.85	21.5	387.1	13.5
		7/18/14	7.79	21.4	386.7	14.1
		10/22/14	7.5	22.7	394	13.7
		1/30/15	7.81	20.7	381	14.2
		8/4/15	7.72	22	386.7	13.1
		1/14/16	7.79	20.2	376.9	13.7
		7/22/16	7.89	22.9	376.2	13.2
		1/23/17	7.58	20.4	387.5	13.3
		7/24/17	7.52	20.5	386.8	13.9
		1/16/18	7.51	20.3	384.2	14.0
		7/16/18	7.49	20.4	385.1	13.3
		1/8/19	7.52	20.3	388.2	13.1
		7/8/19	7.02	21.3	393.5	11.1
1/22/20	7.10	20.8	387.1	13.5		
7/21/20	7.63	21.2	384.2	13.7		
1/7/21	7.55	21.2	383.1	12.8		
7/21/21	7.63	20.2	384.3	14.7		
2/1/22	7.62	20.1	377.2	12.6		
7/6/22	7.73	21.3	379.7	12.9		
WEISKOPF 802	641802	2/15/08	7.48	20.0	1072	500
		5/7/08	7.10	21.8	1251	483
		7/16/08	7.07	22.2	1399	560
		10/28/08	6.98	20.8	1401	602
		1/29/09	6.79	20.7	1014	503
		4/15/09	7.53	21.1	1164	503
		7/15/09	7.84	22.1	1317	486
		10/15/09	6.89	21.4	1216	484
		2/2/10	7.22	20.4	1319	451
		4/22/10	7.30	19.3	1329	572
		7/19/10	7.06	23.1	1330	573
		10/20/10	7.64	21.6	1360	515
		10/20/10 DUP	7.64	21.6	1360	529
		1/17/11	7.16	22.0	1270	481
		4/11/11	6.88	22.4	1365	557
		8/26/11	6.83	23.5	1200	549
		10/13/11	7.07	22.8	1299	539
		2/3/12	7.35	21.5	1363	583
		4/25/12	7.07	23.5	1300	575
		7/13/12	6.83	22.2	1530	552
		10/11/12	7.26	21.3	1369	572
		10/11/12 DUP	7.26	21.3	1369	577
		1/16/13	7.14	20.5	1298	523
		4/17/13	7.22	20.1	1337	558
		7/18/13	7.45	21.3	1131	420
		10/17/13	7.29	22.5	1131	437
		1/16/14	7.28	22.7	1323	563
		4/11/14	7.29	23.0	1304	558
		7/18/14	7.17	23.3	1375	608
		10/9/14	7.08	24.5	1094	405
		8/4/15	7.07	24.5	1571	699
		8/4/15 DUP	7.07	24.5	1571	701
		7/26/16	7.00	22.8	1483	702
7/24/17	6.85	22.8	1524	698		
7/23/19	6.90	21.8	1520	657		

TABLE 3
Compilation of Analytical Results For Sulfate and Field Parameters

Well Name	ADWR 55 Registry Number	Sample Date	pH (SU)	Temp (deg C)	SC (µS/cm)	Sulfate, dissolved (mg/L)
WEISKOPF 897	220897	12/6/12	7.93	23.6	398.3	18.5
		1/16/13	7.88	23.1	398.9	18.2
		1/16/13 DUP	7.88	23.1	398.9	18.2
		4/17/13	7.86	22.6	394.4	19.0
		7/18/13	7.84	24.3	393.2	18.0
		10/17/13	7.90	23.3	392.2	18.3
		1/16/14	7.90	23	395.8	18.4
		4/11/14	7.92	23.5	390.5	17.9
		7/18/14	7.87	23.9	387.4	18.4
		10/9/14	7.69	22.8	392	17.7
		8/4/15	7.89	24.9	385.7	17.3
		7/26/16	7.81	23.8	387.0	17.8
		7/24/17	7.58	23.1	386.7	17.0
		7/16/18	7.60	22.9	383.3	16.7
		7/23/19	7.57	22.9	383.1	16.1
		7/23/20	7.59	23.7	381.5	16.9
		7/26/21	7.57	22.9	380.8	16.5
7/13/22	7.71	25.8	394.3	16.7		
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
		5/6/08	7.26	21.2	404	6.3
		7/16/08	6.92	22.9	441	6.9
		10/28/08	7.40	21.2	415	15
		2/10/09	7.50	20.4	317	6
		4/16/09	7.47	21.7	352	5.5
		7/14/09	7.36	22.9	418	4.5
		10/13/09	7.41	21.7	407	6.3
		1/26/10	7.49	20.3	411	5.7
		4/2/10	7.55	20.0	416	6.70
		7/21/10	7.38	22.7	388.2	6.78
		10/19/10	6.78	21.3	430	6.56
		1/18/11	7.59	18.9	380	6.14
		1/18/11 DUP	7.59	18.9	380	6.06
		4/6/11	7.20	19.7	425.8	6.12
		7/13/11	7.29	22.9	410.10	6.43
		10/12/11	7.35	22.2	426.2	6.38
		1/31/12	7.29	20.3	420	6.59
		4/10/12	7.49	21.9	420.1	6.90
		4/10/12 DUP	7.49	21.9	420.1	6.65
		7/17/12	7.34	22.2	430	6.38
		10/8/12	7.58	20.8	431.4	7.03
		1/10/13	7.58	20.7	436.1	6.52
		4/18/13	7.65	20.8	436.7	6.66
		7/15/13	7.55	21.8	431.1	6.49
		10/7/13	7.59	21.5	430.2	6.41
		1/7/14	7.50	20.9	435.4	6.77
		4/9/14	7.57	21.5	434.4	6.57
		7/17/14	7.61	21.5	432.0	6.99
		10/13/14	7.52	23.8	422.0	6.24
		8/3/15	7.61	22.5	430.3	6.54
		7/15/16	7.53	22.4	434.1	7.12
		7/24/17	7.26	20.5	430.2	7.21
		7/24/18	7.28	20.7	427.0	7.12
7/16/19	7.23	20.4	426.5	6.49		
8/11/20	7.29	21.2	426.3	6.99		
7/27/21	7.37	20.4	423.8	7.96		
7/14/22	7.43	20.8	419.7	7.67		

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
¹ Verified drinking water supply well, sample collected for sulfate trend analysis and interim action evaluation

TABLE 4
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
					5/5/08	145.84	4442.67
					7/14/08	146.16	4442.35
					10/15/08	146.21	4442.30
					1/27/09	145.97	4442.54
					4/14/09	146.21	4442.30
					7/14/09	146.88	4441.63
					10/12/09	147.31	4441.20
					1/27/10	147.31	4441.20
					4/21/10	147.57	4440.94
					7/19/10	148.34	4440.17
					10/19/10	147.75	4440.76
					1/17/11	148.63	4439.88
					4/11/11	149.46	4439.05
					7/14/11	149.92	4438.59
					10/11/11	150.19	4438.32
					2/1/12	150.19	4438.32
					4/25/12	150.69	4437.82
					7/12/12	151.34	4437.17
					10/10/12	151.50	4437.01
					1/17/13	151.24	4437.27
					4/15/13	152.08	4436.43
					7/18/13	152.19	4436.32
					10/16/13	152.41	4436.10
					1/9/14	152.14	4436.37
					4/7/14	152.56	4435.95
					7/11/14	152.02	4436.49
					10/6/14	152.70	4435.81
					2/2/15	152.09	4436.42
					5/18/15	152.22	4436.29
7/22/15	152.63	4435.88					
10/8/15	152.39	4436.12					
1/12/16	152.00	4436.51					
7/19/16	154.43	4434.08					
1/16/17	153.34	4435.17					
7/18/17	153.99	4434.52					
1/16/18	153.89	4434.62					
7/18/18	154.61	4433.90					
1/7/19	155.18	4433.33					
7/11/19	155.70	4432.81					
1/6/20	155.94	4432.57					
7/22/20	156.05	4432.46					
1/5/21	156.67	4431.84					
7/27/21	157.41	4431.10					
1/27/22	157.98	4430.53					
7/11/22	158.29	4430.22					
ANDERSON 458	221458	601118.690	3468826.284	4585.37	9/7/12	173.76	4411.61
					10/10/12	151.82	4433.55
					1/17/13	152.17	4433.20
					4/15/13	158.42	4426.95
					7/18/13	157.56	4427.81
					10/16/13	156.24	4429.13
					1/9/14	152.58	4432.79
					4/7/14	153.54	4431.83
					7/11/14	156.66	4428.71
					10/6/14	157.31	4428.06
					5/18/15	156.79	4428.58
					7/22/15	157.03	4428.34
					7/19/16	153.02	4432.35
					7/18/17	155.93	4429.44
					7/18/18	158.55	4426.82
7/11/19	185.21	4400.16					
7/22/20	178.36	4407.01					
7/27/21	161.26	4424.11					
7/11/22	170.67	4414.70					

TABLE 4
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)
ASLD 435	616435	593496.865	3468879.791	4471.34	6/27/13	250.85	4220.49
					9/24/13	250.85	4220.49
					12/3/13	250.79	4220.55
					2/25/14	250.75	4220.59
					6/4/14	250.93	4220.41
					9/10/14	250.97	4220.37
					11/20/14	250.66	4220.68
					3/24/15	250.25	4221.09
					9/17/15	250.17	4221.17
					3/24/16	250.17	4221.17
					9/28/16	250.21	4221.13
					3/20/17	250.55	4220.79
					8/10/17	250.94	4220.40
					3/8/18	251.30	4220.04
					8/22/18	251.57	4219.77
					2/14/19	251.93	4219.41
					9/9/19	252.42	4218.92
					2/27/20	252.73	4218.61
8/25/20	253.10	4218.24					
3/23/21	253.47	4217.87					
9/20/21	253.99	4217.35					
3/14/22	254.27	4217.07					
9/22/22	254.47	4216.87					
AWC-02	616586	598907.911	3468549.357	4547.64	4/8/08	116	4431.64
					8/27/08	121.12	4426.52
					10/23/08 ¹	115	4432.64
					4/22/09 ¹	118	4429.64
					10/9/09 ¹	117	4430.64
					4/23/10 ¹	119	4428.64
					4/11/13	127.64	4420.00
					7/25/13	128.89	4418.75
					10/7/13 ¹	125.00	4422.64
					1/7/14	125.36	4422.28
					5/14/14	124.89	4422.75
					7/16/14	124.49	4423.15
					10/15/14	122.52	4425.12
					1/29/15	120.00	4427.64
					5/18/15	162.60	4385.04
					7/21/15	129.08	4418.56
					10/2015 ¹	128.00	4419.64
					1/13/16	128.80	4418.84
					7/19/16	125.40	4422.24
					1/19/17	119.69	4427.95
					9/6/17	131.56	4416.08
					1/17/18	131.93	4415.71
					7/25/18	129.03	4418.61
1/16/19	121.92	4425.72					
7/23/19	130.58	4417.06					
1/13/20	123.78	4423.86					
8/3/20	128.44	4419.20					
1/4/21	128.06	4419.58					
7/20/21	129.77	4417.87					
1/31/22	129.15	4418.49					
7/18/22	131.38	4416.26					

TABLE 4
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	3468681.898	4539.52	4/8/08	112	4427.52
					8/27/08	119.40	4420.12
					10/23/08 ¹	106	4433.52
					4/22/09 ¹	114	4425.52
					10/9/09 ¹	116	4423.52
					4/23/10 ¹	116	4423.52
					4/11/13 ¹	125	4414.52
					7/16/13 ¹	126	4413.52
					10/7/13 ¹	122	4417.52
					1/7/14 ¹	121	4418.60
					5/14/14 ¹	121.50	4418.02
					7/16/14 ¹	123.50	4416.02
					10/15/14	119.60	4419.92
					1/29/15	120.20	4419.32
					5/19/15	186.20	4353.32
					7/21/15	118.00	4421.52
					10/20/15 ¹	115.00	4424.52
					1/13/16 ¹	118.00	4421.52
					7/19/16	125.50	4414.02
					1/19/17 ¹	123.00	4416.52
					9/6/17 ¹	121.30	4418.22
					1/17/18 ¹	113.60	4425.92
7/25/18 ¹	125.7	4413.82					
1/16/19 ¹	123.0	4416.52					
7/23/19 ¹	126.50	4413.02					
1/13/20 ¹	123.50	4416.02					
8/3/20 ¹	129.00	4410.52					
1/4/21 ¹	126.50	4413.02					
7/20/21 ¹	129.00	4410.52					
1/31/22 ¹	127.00	4412.52					
7/18/22	122.00	4417.52					
AWC-04	616584	598949.929	3468717.084	4540.48	4/8/08	108	4432.48
					8/27/08	112.56	4427.92
					10/23/08 ¹	111.31	4429.17
					4/22/09 ¹	110	4430.48
					10/9/09 ¹	110	4430.48
					4/23/10 ¹	109	4431.48
					4/11/13	120.93	4419.55
					7/16/13	123.76	4416.72
					10/7/13 ¹	116.00	4424.48
					1/7/14	115.98	4424.50
					5/14/14	115.32	4425.16
					7/16/14	118.44	4422.04
					10/15/14	114.29	4426.19
					1/29/15	112.20	4428.28
					5/19/15	113.90	4426.58
					7/21/15	131.70	4408.78
					10/20/15 ¹	129	4411.48
					1/13/16	130.33	4410.15
					7/19/16	119.70	4420.78
					1/19/17	113.15	4427.33
					9/6/17	127.92	4412.56
					1/17/18	125.86	4414.62
7/25/18	120.27	4420.21					
1/16/19	115.33	4425.15					
7/23/19	126.48	4414.00					
1/13/20	115.84	4424.64					
8/3/20	119.42	4421.06					
2/9/21	118.99	4421.49					
7/20/21	121.31	4419.17					
1/31/22	119.33	4421.15					
7/18/22	123.88	4416.60					

TABLE 4
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	4/8/08	284	4258.51
					8/27/08	299.65	4242.86
					10/23/08	284	4258.51
					4/22/09	286	4256.51
					6/3/09	125	4417.51
					10/9/09 ¹	289	4253.51
					4/23/10 ¹	278	4264.51
					4/11/13	229.56	4312.95
					7/16/13	203.17	4339.34
					10/7/13 ¹	142.00	4400.51
					1/7/14	123.09	4419.42
					5/14/14	346.75	4195.76
					7/16/14	346.34	4196.17
					10/15/14	316.16	4226.35
					1/29/15	133.98	4408.53
					5/18/15	148.05	4394.46
					7/21/15	120.84	4421.67
					10/2015 ¹	116	4426.51
					1/13/16	116.22	4426.29
					7/19/16	329.30	4213.21
					1/19/17	318.24	4224.27
					9/6/17	322.50	4220.01
1/17/18	194.14	4348.37					
7/25/18	132.92	4409.59					
1/16/19	147.85	4394.66					
7/23/19	195.46	4347.05					
1/13/20	143.20	4399.31					
8/3/20	156.45	4386.06					
1/4/21	140.31	4402.20					
7/20/21	188.07	4354.44					
1/31/22	158.80	4383.71					
7/18/22	190.84	4351.67					

TABLE 4
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	606981.921	3469206.175	4648.18	2/27/08	208.00	4440.18
					5/12/08	216.30	4431.88
					7/21/08	228.95	4419.23
					10/13/08	228.20	4419.98
					1/21/09	206.64	4441.54
					4/8/09	205.50	4442.68
					7/9/09	235.68	4412.50
					10/7/09	236.71	4411.47
					2/25/10	216.98	4431.20
					4/20/10	219.35	4428.83
					7/20/10	235.60	4412.58
					10/20/10	230.24	4417.94
					1/17/11	215.28	4432.90
					4/5/11	221.68	4426.50
					7/11/11	237.39	4410.79
					10/12/11	237.34	4410.84
					1/31/12	228.95	4419.23
					4/11/12	219.39	4428.79
					7/6/12	232.59	4415.59
					10/4/12	237.16	4411.02
					1/18/13	237.81	4410.37
					4/8/13	237.92	4410.26
					7/9/13	238.32	4409.86
					10/15/13	239.48	4408.70
					1/14/14	239.53	4408.65
					4/8/14	231.49	4416.69
7/8/14	228.85	4419.33					
10/21/14	233.96	4414.22					
1/26/15	230.87	4417.31					
7/24/15	237.53	4410.65					
1/11/16	237.42	4410.76					
7/12/16	232.54	4415.64					
1/17/17	221.90	4426.28					
7/26/17	233.25	4414.93					
1/15/18	237.31	4410.87					
7/30/18	237.12	4411.06					
1/15/19	237.21	4410.97					
7/11/19	237.42	4410.76					
1/14/20	237.42	4410.76					
8/13/20	237.29	4410.89					
1/13/21	235.12	4413.06					
7/20/21	237.31	4410.87					
1/28/22	237.32	4410.86					
7/11/22	237.28	4410.90					
BARTON 919	644919	606243.850	3469076.689	4692.36	5/12/08	113.71	4578.65
					7/23/08	113.56	4578.80
					10/16/08	113.20	4579.16
					3/11/09	112.92	4579.44
					4/10/09	112.89	4579.47
					7/7/09	112.86	4579.50
					7/17/13	114.18	4578.18
					1/14/14	113.96	4578.40
					7/17/14	113.42	4578.94
					7/20/15	113.22	4579.14
					1/11/16	113.33	4579.03
					7/19/16	113.35	4579.01
					1/17/17	113.47	4578.89
					7/14/17	113.52	4578.84
					1/15/18	113.88	4578.48
7/17/18	113.95	4578.41					
1/15/19	114.27	4578.09					
7/11/19	113.72	4578.64					
1/21/20	113.72	4578.64					

TABLE 4
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)
BF-01	539783	604169.077	3472151.593	4835.23	3/4/08	348.99	4486.24
					5/23/08	348.80	4486.43
					8/5/08	348.66	4486.57
					11/5/08	348.94	4486.29
					2/20/09	348.78	4486.45
					5/6/09	348.73	4486.50
					8/17/09	348.73	4486.50
					11/4/09	348.65	4486.58
					3/1/10	348.84	4486.39
					4/7/10	348.70	4486.53
					7/6/10	348.69	4486.54
7/13/11	348.67	4486.56					
2/1/12	347.84	4487.39					
8/13/12	343.95	4491.28					
BIMA	577927	606001.245	3471852.804	4802.05	5/13/08	367.31	4434.74
					8/18/08	370.24	4431.81
					10/23/08	353.96	4448.09
					1/20/09	353.07	4448.98
					4/7/09	357.76	4444.29
					7/8/09	365.44	4436.61
					10/5/09	370.11	4431.94
					4/19/10	382.25	4419.80
					7/21/10	386.89	4415.16
					10/18/10	387.39	4414.66
					1/19/11	391.47	4410.58
4/4/11	395.22	4406.83					
BMO-2008-1G	909474	606467.681	3471723.644	4805.10	8/27/08	62.05	4743.05
					11/11/08	60.95	4744.15
					2/25/09	61.43	4743.67
					4/28/09	62.01	4743.09
					8/4/09	62.96	4742.14
					10/27/09	63.61	4741.49
					2/17/10	64.51	4740.59
					4/15/10	65.05	4740.05
					7/7/10	65.83	4739.27
					2/10/11	67.74	4737.36
					7/12/11	69.37	4735.73
					2/8/12	70.33	4734.77
					8/14/12	71.73	4733.37
					2/14/13	72.95	4732.15
					8/14/13	73.82	4731.28
					2/13/14	73.79	4731.31
					7/22/14	74.14	4730.96
					2/4/15	73.70	4731.40
					9/10/15	74.12	4730.98
					3/3/16	74.30	4730.80
					8/17/16	75.02	4730.08
					3/1/17	75.62	4729.48
					7/24/17	76.16	4728.94
2/14/18	76.97	4728.13					
7/10/18	77.70	4727.40					
2/5/19	78.44	4726.66					
7/31/19	78.42	4726.68					
2/5/20	77.75	4727.35					
8/12/20	76.38	4728.72					
2/3/21	76.88	4728.22					
7/14/21	78.06	4727.04					
1/31/22	78.97	4726.13					
7/14/22	79.60	4725.50					

TABLE 4
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-2008-3B	909147	602012.923	3467919.582	4583.97	7/18/08	138.05	4445.92
					11/4/08	137.95	4446.02
					2/19/09	138.19	4445.78
					5/11/09	138.46	4445.51
					8/6/09	139.02	4444.95
					10/26/09	139.60	4444.37
					3/3/10	140.03	4443.94
					4/8/10	140.07	4443.90
					7/1/10	140.70	4443.27
					2/14/11	141.41	4442.56
					7/12/11	142.21	4441.76
					2/23/12	143.90	4440.07
					7/10/12	143.70	4440.27
					2/15/13	144.53	4439.44
					8/27/13	145.10	4438.87
					2/11/14	145.08	4438.89
					7/21/14	145.36	4438.61
					2/5/15	144.79	4439.18
					5/28/15	144.90	4439.07
					9/14/15	145.24	4438.73
					10/21/15	145.39	4438.58
					3/3/16	145.18	4438.79
					8/18/16	145.94	4438.03
					3/1/17	146.32	4437.65
7/26/17	146.84	4437.13					
2/8/18	147.16	4436.81					
7/10/18	147.92	4436.05					
2/5/19	148.88	4435.09					
8/6/19	149.47	4434.50					
2/6/20	149.99	4433.98					
8/12/20	150.17	4433.80					
2/3/21	151.16	4432.81					
7/27/21	151.74	4432.23					
1/31/22	152.30	4431.67					
8/1/22	152.68	4431.29					
BMO-2008-4B	910096	601099.405	3468383.430	4573.17	12/1/08	130.77	4442.40
					2/18/09	130.58	4442.59
					4/30/09	131.24	4441.93
					8/6/09	131.96	4441.21
					10/27/09	132.04	4441.13
					2/24/10	131.82	4441.35
					4/16/10	132.65	4440.52
					7/2/10	133.20	4439.97
					2/15/11	133.78	4439.39
					7/22/11	134.80	4438.37
					2/23/12	134.64	4438.53
					9/17/12	136.15	4437.02
					1/15/13	136.13	4437.04
					4/15/13	136.78	4436.39
					9/18/13	137.04	4436.13
					1/9/14	136.96	4436.21
					7/18/14	137.49	4435.68
					1/12/16	136.54	4436.63
					9/30/17	138.68	4434.49
					1/18/18	138.71	4434.46
					7/26/18	139.42	4433.75
					1/14/19	139.96	4433.21
					7/22/19	140.40	4432.77
					1/22/20	140.66	4432.51
8/11/20	140.89	4432.28					
7/22/21	142.25	4430.92					
2/1/22	142.71	4430.46					
8/1/22	143.09	4430.08					

TABLE 4
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	9/30/08	145.10	4440.00
					2/18/09	144.35	4440.75
					4/27/09	144.78	4440.32
					8/4/09	145.36	4439.74
					10/29/09	145.88	4439.22
					2/15/10	145.42	4439.68
					4/15/10	145.80	4439.30
					7/7/10	146.59	4438.51
					10/5/10	147.00	4438.10
					2/14/11	147.56	4437.54
					5/12/11	148.04	4437.06
					7/13/11	148.31	4436.79
					12/7/11	148.45	4436.65
					2/3/12	148.47	4436.63
					4/18/12	149.02	4436.08
					7/10/12	148.65	4436.45
					10/16/12	149.91	4435.19
					2/7/13	149.94	4435.16
					2/12/13	150.06	4435.04
					5/15/13	150.55	4434.55
					8/20/13	150.82	4434.28
					11/1/13	150.77	4434.33
					2/11/14	150.33	4434.77
					5/7/14	150.83	4434.27
					8/19/14	151.13	4433.97
					11/13/14	150.78	4434.32
					2/3/15	150.10	4435.00
					5/28/15	150.47	4434.63
					9/8/15	150.38	4434.72
					10/21/15	150.23	4434.87
					3/14/16	149.76	4435.34
					9/14/16	151.31	4433.79
3/1/17	151.56	4433.54					
8/1/17	151.95	4433.15					
2/8/18	151.97	4433.13					
3/8/18	152.04	4433.06					
4/11/18	152.27	4432.83					
5/29/18	152.32	4432.78					
6/19/18	152.74	4432.36					
7/25/18	152.96	4432.14					
2/4/19	153.41	4431.69					
8/7/19	153.76	4431.34					
2/6/20	153.99	4431.11					
8/11/20	154.37	4430.73					
2/2/21	155.00	4430.10					
7/12/21	155.61	4429.49					
1/31/22	155.98	4429.12					
7/11/22	156.37	4428.73					

TABLE 4
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-2008-5M	909552	600445.071	3468994.282	4585.02	10/2/08	146.65	4438.37
					2/18/09	145.97	4439.05
					4/27/09	146.46	4438.56
					8/4/09	147.13	4437.89
					10/29/09	147.68	4437.34
					2/15/10	147.07	4437.95
					4/16/10	147.34	4437.68
					7/7/10	148.28	4436.74
					10/5/10	148.68	4436.34
					2/14/11	148.74	4436.28
					5/12/11	149.66	4435.36
					7/12/11	150.20	4434.82
					12/7/11	150.30	4434.72
					2/3/12	150.05	4434.97
					4/18/12	150.70	4434.32
					7/10/12	151.65	4433.37
					10/16/12	151.77	4433.25
					2/12/13	152.00	4433.02
					5/15/13	152.42	4432.60
					8/20/13	152.76	4432.26
					11/1/13	152.53	4432.49
					2/11/14	151.78	4433.24
					5/7/14	152.26	4432.76
					8/19/14	152.78	4432.24
					11/13/14	152.27	4432.75
					2/3/15	151.61	4433.41
					5/19/15	151.58	4433.44
					9/8/15	151.63	4433.39
					3/14/16	150.87	4434.15
					9/14/16	152.68	4432.34
3/1/17	152.84	4432.18					
8/1/17	153.27	4431.75					
2/8/18	153.03	4431.99					
7/25/18	154.19	4430.83					
2/4/19	154.54	4430.48					
8/7/19	155.00	4430.02					
2/6/20	155.20	4429.82					
8/11/20	155.85	4429.17					
2/2/21	156.20	4428.82					
7/12/21	157.05	4427.97					
1/31/22	157.21	4427.81					
7/11/22	157.72	4427.30					

TABLE 4
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	7/16/08	190.13	4437.31
					11/4/08	190.23	4437.21
					2/19/09	189.71	4437.73
					4/27/09	189.99	4437.45
					8/4/09	190.80	4436.64
					10/26/09	191.04	4436.40
					2/15/10	190.82	4436.62
					4/15/10	190.75	4436.69
					7/1/10	191.43	4436.01
					10/5/10	192.50	4434.94
					2/14/11	192.19	4435.25
					5/12/11	192.70	4434.74
					7/12/11	193.30	4434.14
					12/7/11	193.85	4433.59
					2/3/12	193.60	4433.84
					4/18/12	193.90	4433.54
					7/10/12	194.75	4432.69
					10/16/12	195.71	4431.73
					2/12/13	195.42	4432.02
					5/15/13	195.91	4431.53
					8/20/13	196.23	4431.21
					11/1/13	195.77	4431.67
					2/11/14	195.24	4432.20
					5/7/14	195.47	4431.97
					8/19/14	196.36	4431.08
					11/13/14	195.74	4431.70
					2/3/15	195.12	4432.32
					5/19/15	195.00	4432.44
					9/8/15	195.48	4431.96
					10/21/15	195.37	4432.07
3/14/16	195.00	4432.44					
9/14/16	196.36	4431.08					
3/1/17	196.33	4431.11					
7/10/17	196.88	4430.56					
2/8/18	197	4430.44					
7/10/18	197.57	4429.87					
2/4/19	197.89	4429.55					
8/6/19	198.57	4428.87					
2/3/20	198.70	4428.74					
7/22/20	199.04	4428.40					
2/2/21	199.74	4427.70					
7/12/21	200.29	4427.15					
1/31/22	200.78	4426.66					
7/11/22	201.19	4426.25					

TABLE 4
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	7/10/08	191.63	4435.27
					11/4/08	190.25	4436.65
					2/20/09	190.70	4436.20
					4/28/09	190.98	4435.92
					8/4/09	191.77	4435.13
					10/26/09	192.14	4434.76
					2/15/10	191.78	4435.12
					4/15/10	191.64	4435.26
					7/1/10	192.53	4434.37
					10/5/10	192.96	4433.94
					2/14/11	193.14	4433.76
					5/12/11	193.68	4433.22
					7/12/11	194.47	4432.43
					12/7/11	194.92	4431.98
					2/3/12	194.65	4432.25
					4/18/12	195.00	4431.90
					7/10/12	196.10	4430.80
					10/16/12	196.53	4430.37
					2/12/13	196.45	4430.45
					5/15/13	196.90	4430.00
					8/20/13	197.43	4429.47
					11/1/13	196.53	4430.37
					2/11/14	196.18	4430.72
					5/7/14	196.33	4430.57
					8/19/14	197.40	4429.50
					11/13/14	196.32	4430.58
					2/3/15	195.90	4431.00
					5/19/15	195.64	4431.26
					9/8/15	196.32	4430.58
					3/14/16	195.87	4431.03
9/14/16	197.37	4429.53					
3/1/17	197.24	4429.66					
7/10/17	197.92	4428.98					
2/8/18	197.96	4428.94					
7/10/18	198.63	4428.27					
2/4/19	198.78	4428.12					
8/6/19	199.61	4427.29					
2/3/20	199.52	4427.38					
7/22/20	200.02	4426.88					
2/2/21	200.75	4426.15					
7/12/21	201.43	4425.47					
1/31/22	201.70	4425.20					
7/11/22	200.38	4426.52					

TABLE 4
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	3470029.283	4688.33	7/14/08	238.31	4450.02
					11/6/08	239.69	4448.64
					2/18/09	238.90	4449.43
					5/11/09	239.03	4449.30
					8/6/09	239.17	4449.16
					10/27/09	239.55	4448.78
					2/17/10	239.98	4448.35
					4/15/10	240.13	4448.20
					7/6/10	240.28	4448.05
					2/14/11	241.26	4447.07
					7/15/11	241.81	4446.52
					1/30/12	242.44	4445.89
					7/11/12	243.0	4445.33
					2/15/13	243.8	4444.53
					8/28/13	244.32	4444.01
					2/13/14	244.31	4444.02
					7/22/14	244.66	4443.67
					2/5/15	243.91	4444.42
					9/14/15	244.59	4443.74
					3/16/16	244.91	4443.42
					8/18/16	245.23	4443.10
					3/7/17	245.44	4442.89
					7/10/17	245.73	4442.60
2/1/18	245.82	4442.51					
7/23/18	246.18	4442.15					
2/11/19	246.46	4441.87					
8/8/19	246.80	4441.53					
2/18/20	247.28	4441.05					
7/23/20	247.68	4440.65					
3/17/21	248.40	4439.93					
8/2/21	248.81	4439.52					
3/10/22	249.53	4438.80					
7/18/22	249.92	4438.41					
BMO-2008-8B	910097	604171.347	3471141.719	4753.25	12/5/08	297.94	4455.31
					2/19/09	297.63	4455.62
					5/5/09	297.37	4455.88
					8/10/09	297.53	4455.72
					11/9/09	297.85	4455.40
					3/3/10	298.37	4454.88
					4/16/10	298.46	4454.79
					7/1/10	298.64	4454.61
					2/11/11	299.56	4453.69
					5/13/11	299.78	4453.47
					7/15/11	300.00	4453.25
					1/30/12	300.52	4452.73
					7/12/12	301.15	4452.10
					2/13/13	302.05	4451.20
					8/12/13	302.48	4450.77
					7/24/14	301.86	4451.39
					2/5/15	299.56	4453.69
					9/15/15	300.14	4453.11
					3/16/16	300.76	4452.49
					9/15/16	301.26	4451.99
					3/7/17	301.61	4451.64
					7/10/17	301.89	4451.36
					2/1/18	301.83	4451.42
7/23/18	302.83	4450.42					
2/11/19	302.84	4450.41					
8/8/19	303.42	4449.83					
2/18/20	304.19	4449.06					
7/23/20	304.74	4448.51					
3/17/21	305.47	4447.78					
8/2/21	306.10	4447.15					
3/10/22	307.15	4446.10					
7/18/22	307.74	4445.51					

TABLE 4
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-2008-8M	909711	604167.912	3471127.902	4752.45	12/9/08	299.79	4452.66
					2/19/09	298.32	4454.13
					5/5/09	298.27	4454.18
					8/10/09	298.57	4453.88
					11/5/09	298.81	4453.64
					3/3/10	299.18	4453.27
					4/16/10	299.42	4453.03
					7/1/10	299.70	4452.75
					1/24/11	300.46	4451.99
					5/13/11	301.00	4451.45
					7/15/11	300.96	4451.49
					1/30/12	301.60	4450.85
					7/12/12	302.45	4450.00
					2/14/13	303.07	4449.38
					8/12/13	303.60	4448.85
					2/19/14	303.11	4449.34
					7/24/14	303.48	4448.97
					2/5/15	301.98	4450.47
					9/15/15	302.46	4449.99
					3/16/16	303.19	4449.26
					9/15/16	303.43	4449.02
					3/7/17	303.85	4448.60
					7/10/17	304.09	4448.36
2/1/18	303.94	4448.51					
7/23/18	304.20	4448.25					
2/11/19	304.09	4448.36					
8/8/19	304.8	4447.65					
2/18/20	304.90	4447.55					
7/23/20	305.42	4447.03					
3/17/21	306.51	4445.94					
8/2/21	302.32	4450.13					
3/10/22	302.88	4449.57					
7/18/22	303.76	4448.69					

TABLE 4
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-2008-9M	909255	604668.669	3471121.675	4762.61	8/8/08	287.17	4475.44
					11/5/08	287.65	4474.96
					2/26/09	285.65	4476.96
					5/12/09	285.28	4477.33
					8/17/09	286.09	4476.52
					11/3/09	286.55	4476.06
					3/4/10	287.45	4475.16
					4/6/10	287.81	4474.80
					7/1/10	288.26	4474.35
					2/10/11	289.77	4472.84
					5/13/11	290.47	4472.14
					7/15/11	290.95	4471.66
					2/1/12	293.44	4469.17
					7/12/12	294.65	4467.96
					2/13/13	296.67	4465.94
					8/12/13	297.63	4464.98
					2/18/14	293.68	4468.93
					7/24/14	293.53	4469.08
					2/5/15	286.01	4476.60
					9/14/15	286.34	4476.27
					3/16/16	287.22	4475.39
					9/15/16	289.35	4473.26
					3/7/17	289.83	4472.78
7/11/17	291.03	4471.58					
2/1/18	289.66	4472.95					
7/26/18	291.78	4470.83					
2/11/19	291.42	4471.19					
8/12/19	292.67	4469.94					
2/20/20	290.43	4472.18					
7/20/20	288.57	4474.04					
3/17/21	291.21	4471.40					
8/18/21	293.59	4469.02					
3/10/22	294.78	4467.83					
7/18/22	296.39	4466.22					
BMO-2008-10GL	909435	605264.072	3471702.043	4792.21	8/20/08	521.75	4270.46
					11/5/08	520.50	4271.71
					2/25/09	516.72	4275.49
					5/12/09	514.68	4277.53
					8/11/09	513.23	4278.98
					11/2/09	509.43	4282.78
					3/4/10	510.88	4281.33
					4/8/10	506.31	4285.90
					7/2/10	511.80	4280.41
					7/13/11	512.16	4280.05
					2/2/12	511.34	4280.87
					7/13/12	510.90	4281.31
					2/18/13	509.91	4282.30
					8/13/13	509.32	4282.89
					8/7/14	507.21	4285.00
					2/10/15	463.22	4328.99
					9/14/15	439.93	4352.28
					3/16/16	364.33	4427.88
					8/17/16	337.26	4454.95
					3/7/17	332.86	4459.35
					7/11/17	337.89	4454.32
					2/1/18	337.84	4454.37
					7/26/18	333.28	4458.93
1/28/19	326.80	4465.41					
8/1/19	316.92	4475.29					
2/17/20	324.94	4467.27					
7/20/20	298.10	4494.11					
3/16/21	260.36	4531.85					
8/17/21	262.84	4529.37					
3/9/22	284.78	4507.43					
9/7/22	291.06	4501.15					

TABLE 4
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-2008-10GU	909272	605267.551	3471731.866	4793.45	8/4/08	299.28	4494.17
					11/5/08	295.89	4497.56
					2/25/09	289.84	4503.61
					5/6/09	289.35	4504.10
					8/11/09	289.09	4504.36
					11/2/09	289.77	4503.68
					3/10/10	289.58	4503.87
					4/7/10	289.5	4503.95
					7/6/10	288.93	4504.52
					7/13/11	301.02	4492.43
					2/1/12	326.51	4466.94
					7/13/12	328.7	4464.75
					8/19/13	283.97	4509.48
					2/10/15	207.58	4585.87
					9/14/15	200.36	4593.09
					3/16/16	195.53	4597.92
					8/17/16	201.47	4591.98
					3/7/17	210.83	4582.62
					8/9/17	201.50	4591.95
					2/1/18	201.09	4592.36
7/26/18	200.53	4592.92					
1/28/19	201.56	4591.89					
8/1/19	200.43	4593.02					
2/17/20	201.74	4591.71					
7/20/20	196.63	4596.82					
3/16/21	192.68	4600.77					
8/17/21	197.91	4595.54					
3/9/22	200.31	4593.14					
9/7/22	206.21	4587.24					
BMO-2008-11G	909434	603800.995	3472626.482	4844.67	8/22/08	577.76	4266.91
					11/12/08	576.80	4267.87
					2/26/09	575.91	4268.76
					4/8/09	575.46	4269.21
					8/12/09	574.84	4269.83
					11/9/09	573.41	4271.26
					3/1/10	573.68	4270.99
					4/9/10	573.56	4271.11
					7/1/10	572.97	4271.70
					2/10/11	571.61	4273.06
					7/22/11	571.20	4273.47
					1/31/12	569.83	4274.84
					8/14/12	569.70	4274.97
					2/13/13	568.75	4275.92
					8/27/13	566.50	4278.17
					2/19/14	564.68	4279.99
					8/14/14	564.24	4280.43
					2/5/15	560.60	4284.07
					9/14/15	557.84	4286.83
					3/15/16	556.04	4288.63
					8/17/16	554.94	4289.73
					3/2/17	554.27	4290.40
					7/11/17	554.02	4290.65
					2/12/18	552.11	4292.56
					7/12/18	552.20	4292.47
1/28/19	550.72	4293.95					
8/6/19	550.89	4293.78					
2/4/20	548.35	4296.32					
8/13/20	546.77	4297.90					
2/3/21	546.25	4298.42					
7/22/21	546.07	4298.60					
2/1/22	543.17	4301.50					
8/1/22	543.22	4301.45					

TABLE 4
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	10/3/08	206.42	4442.79
					2/17/09	206.11	4443.10
					5/6/09	206.32	4442.89
					8/5/09	206.79	4442.42
					10/28/09	207.08	4442.13
					2/16/10	207.26	4441.95
					4/14/10	207.27	4441.94
					7/6/10	207.68	4441.53
					2/10/11	208.51	4440.70
					5/13/11	208.95	4440.26
					7/15/11	209.36	4439.85
					2/9/12	209.78	4439.43
					7/11/12	210.60	4438.61
					2/27/13	211.40	4437.81
					9/4/13	212.15	4437.06
					8/19/14	212.68	4436.53
					2/4/15	212.28	4436.93
					9/15/15	212.37	4436.84
					3/16/16	211.95	4437.26
					9/21/16	212.84	4436.37
3/7/17	213.15	4436.06					
8/2/17	213.57	4435.64					
2/1/18	213.6	4435.61					
8/6/18	214.22	4434.99					
2/11/19	214.79	4434.42					
8/20/19	215.16	4434.05					
2/20/20	215.46	4433.75					
8/5/20	215.70	4433.51					
3/15/21	216.27	4432.94					
8/16/21	216.85	4432.36					
3/9/22	217.35	4431.86					
9/6/22	217.94	4431.27					
BMO-2008-13M	909760	601650.495	3470040.455	4647.15	12/3/08	206.00	4441.15
					2/17/09	208.74	4438.41
					4/29/09	208.53	4438.62
					8/5/09	208.85	4438.30
					10/28/09	208.91	4438.24
					2/16/10	209.16	4437.99
					4/13/10	209.20	4437.95
					7/2/10	209.30	4437.85
					2/10/11	210.36	4436.79
					5/13/11	210.50	4436.65
					7/15/11	210.67	4436.48
					2/6/12	210.90	4436.25
					8/13/12	211.42	4435.73
					2/15/13	212.13	4435.02
					9/6/13	212.52	4434.63
					8/20/14	213.14	4434.01
					2/4/15	212.97	4434.18
					9/15/15	212.91	4434.24
					3/16/16	212.76	4434.39
					9/21/16	213.22	4433.93
3/7/17	213.6	4433.55					
8/15/17	213.71	4433.44					
2/1/18	214.09	4433.06					
8/6/18	214.37	4432.78					
2/11/19	214.57	4432.58					
8/20/19	215.1	4432.05					
2/20/20	215.46	4431.69					
8/5/20	215.73	4431.42					
3/15/21	216.14	4431.01					
8/16/21	216.39	4430.76					
3/9/22	216.96	4430.19					
9/6/22	217.54	4429.61					

TABLE 4
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	3469935.750	4718.55	9/7/10	224.13	4494.42
					11/10/10	222.97	4495.58
					2/11/11	222.01	4496.54
					5/12/11	223.08	4495.47
					8/31/11	224.38	4494.17
					12/13/11	222.86	4495.69
					2/8/12	222.97	4495.58
					4/24/12	223.87	4494.68
					7/9/12	225.05	4493.50
					10/17/12	225.63	4492.92
					2/13/13	226.85	4491.70
					5/8/13	227.45	4491.10
					8/15/13	228.10	4490.45
					11/4/13	224.41	4494.14
					2/12/14	222.90	4495.65
					6/2/14	222.80	4495.75
					8/4/14	223.14	4495.41
					11/12/14	219.47	4499.08
					2/5/15	214.19	4504.36
					9/9/15	211.68	4506.87
					3/16/16	210.91	4507.64
					8/25/16	212.23	4506.32
					3/7/17	212.69	4505.86
					7/12/17	214.02	4504.53
2/1/18	213.31	4505.24					
8/7/18	214.94	4503.61					
2/11/19	213.87	4504.68					
7/30/19	214.78	4503.77					
2/5/20	213.19	4505.36					
7/20/20	211.73	4506.82					
2/2/21	212.26	4506.29					
7/15/21	214.84	4503.71					
3/10/22	215.92	4502.63					
7/26/22	218.04	4500.51					

TABLE 4
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	9/7/10	264.13	4482.03
					11/11/10	263.94	4482.22
					2/10/11	264.13	4482.03
					5/13/11	266.97	4479.19
					7/14/11	268.05	4478.11
					12/13/11	270.98	4475.18
					1/30/12	271.50	4474.66
					4/18/12	272.31	4473.85
					7/9/12	273.20	4472.96
					10/17/12	274.27	4471.89
					2/13/13	275.52	4470.64
					5/8/13	276.05	4470.11
					8/15/13	278.76	4467.40
					11/4/13	273.26	4472.90
					2/12/14	271.44	4474.72
					5/8/14	270.65	4475.51
					8/14/14	270.78	4475.38
					11/12/14	263.19	4482.97
					2/5/15	259.84	4486.32
					9/14/15	260.92	4485.24
					3/16/16	261.81	4484.35
					9/13/16	264.66	4481.50
					3/7/17	265.47	4480.69
					7/12/17	267.14	4479.02
2/1/18	266.24	4479.92					
8/7/18	268.92	4477.24					
2/11/19	268.25	4477.91					
7/30/19	269.21	4476.95					
2/20/20	265.12	4481.04					
7/21/20	262.38	4483.78					
2/2/21	265.71	4480.45					
7/15/21	268.91	4477.25					
3/10/22	271.46	4474.70					
7/26/22	273.45	4472.71					

TABLE 4
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-2010-3B	219970	599977.962	3468347.363	4550.59	7/28/10	115.38	4435.21
					11/10/10	115.80	4434.79
					1/20/11	115.46	4435.13
					4/7/11	116.11	4434.48
					7/13/11	117.30	4433.29
					10/13/11	117.72	4432.87
					2/2/12	117.18	4433.41
					4/24/12	117.92	4432.67
					7/5/12	118.84	4431.75
					10/18/12	119.13	4431.46
					1/16/13	118.89	4431.70
					4/16/13	119.36	4431.23
					7/23/13	120.02	4430.57
					10/8/13	119.63	4430.96
					1/15/14	118.96	4431.63
					5/13/14	119.40	4431.19
					7/15/14	120.06	4430.53
					10/14/14	119.16	4431.43
					1/28/15	118.46	4432.13
					5/18/15	118.49	4432.10
					7/22/15	118.81	4431.78
					10/6/15	118.06	4432.53
					2/2/16	117.39	4433.20
					7/12/16	119.21	4431.38
					1/18/17	119.89	4430.70
					7/11/17	120.51	4430.08
1/8/18	119.84	4430.75					
7/10/18	121.45	4429.14					
1/8/19	121.92	4428.67					
7/16/19	122.49	4428.10					
1/6/20	122.64	4427.95					
8/4/20	123.25	4427.34					
1/5/21	123.76	4426.83					
7/13/21	124.56	4426.03					
1/24/22	124.89	4425.70					
7/19/22	125.32	4425.27					

TABLE 4
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-2010-3M	219969	599970.801	3468353.543	4550.53	7/30/10	118.63	4431.90
					11/10/10	118.75	4431.78
					1/20/11	118.32	4432.21
					4/7/11	119.09	4431.44
					8/25/11	120.74	4429.79
					10/13/11	120.67	4429.86
					2/2/12	119.91	4430.62
					4/24/12	120.93	4429.60
					7/5/12	122.05	4428.48
					10/18/12	122.06	4428.47
					1/16/13	121.86	4428.67
					4/16/13	122.26	4428.27
					7/23/13	122.97	4427.56
					10/8/13	121.91	4428.62
					1/15/14	120.91	4429.62
					5/13/14	121.90	4428.63
					7/15/14	121.92	4428.61
					10/14/14	121.87	4428.66
					1/28/15	120.63	4429.90
					5/18/15	120.48	4430.05
					7/22/15	120.42	4430.11
					10/6/15	119.44	4431.09
					2/2/16	118.65	4431.88
					7/12/16	121.56	4428.97
					1/18/17	122.27	4428.26
					7/11/17	122.85	4427.68
1/8/18	121.24	4429.29					
7/10/18	124.08	4426.45					
1/8/19	123.97	4426.56					
7/16/19	124.81	4425.72					
1/6/20	124.82	4425.71					
8/4/20	125.96	4424.57					
1/5/21	125.98	4424.55					
7/13/21	127.39	4423.14					
1/24/22	127.02	4423.51					
7/19/22	127.97	4422.56					

TABLE 4
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-2012-1M	221388	606097.384	3469746.747	4719.76	11/13/12	231.90	4487.86
					2/27/13	233.20	4486.56
					5/8/13	233.97	4485.79
					8/14/13	233.96	4485.80
					11/1/13	230.44	4489.32
					2/13/14	229.85	4489.91
					5/8/14	229.89	4489.87
					7/22/14	229.94	4489.82
					11/13/14	225.37	4494.39
					2/4/15	222.57	4497.19
					9/10/15	221.60	4498.16
					3/3/16	214.86	4504.90
					8/17/16	215.57	4504.19
					3/2/17	216.10	4503.66
					7/24/17	217.59	4502.17
					8/21/17	217.55	4502.21
					2/13/18	217.58	4502.18
					7/16/18	219.60	4500.16
					1/29/19	218.63	4501.13
					7/31/19	220.01	4499.75
2/4/20	218.70	4501.06					
7/21/20	216.17	4503.59					
2/2/21	216.78	4502.98					
7/14/21	218.46	4501.30					
2/1/22	219.48	4500.28					
7/19/22	221.98	4497.78					
BMO-2014-1BL	917394	600563.194	3468234.798	4557.18	11/7/14	123.03	4434.15
				4558.45	1/29/15	123.53	4434.92
					4/15/15	123.45	4435.00
					5/18/15	123.93	4434.52
					7/29/15	124.22	4434.23
					10/7/15	123.58	4434.87
					2/4/16	123.17	4435.28
					4/6/16	123.61	4434.84
					7/14/16	124.85	4433.60
					11/2/16	124.93	4433.52
					1/24/17	124.57	4433.88
					7/13/17	126.19	4432.26
					1/10/18	125.47	4432.98
					7/12/18	127.11	4431.34
					1/10/19	126.62	4431.83
					7/18/19	127.19	4431.26
					1/8/20	127.10	4431.35
					8/6/20	127.50	4430.95
					1/7/21	128.23	4430.22
					3/9/21	128.36	4430.09
7/15/21	128.88	4429.57					
1/26/22	129.55	4428.90					
7/21/22	129.72	4428.73					

TABLE 4
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	600570.805	3468231.440	4557.18	11/13/14	123.51	4433.67
				4558.54	1/28/15	123.74	4434.80
					4/15/15	123.90	4434.64
					5/18/15	124.42	4434.12
					7/29/15	124.65	4433.89
					10/7/15	123.97	4434.57
					2/4/16	123.43	4435.11
					4/6/16	123.90	4434.64
					7/14/16	125.23	4433.31
					11/2/16	125.32	4433.22
					1/24/17	124.86	4433.68
					7/13/17	126.42	4432.12
					1/10/18	125.73	4432.81
					7/12/18	127.19	4431.35
					1/10/19	126.86	4431.68
					7/18/19	127.48	4431.06
1/8/20	127.39	4431.15					
8/6/20	127.73	4430.81					
1/7/21	128.49	4430.05					
7/15/21	129.12	4429.42					
1/26/22	129.77	4428.77					
7/21/22	129.93	4428.61					
BMO-2014-2BL	917452	600784.872	3468183.921	4560.31	11/20/14	126.15	4434.16
				4561.80	1/29/15	126.74	4435.06
					4/15/15	126.70	4435.10
					5/18/15	127.18	4434.62
					7/29/15	127.43	4434.37
					10/7/15	126.90	4434.90
					2/4/16	126.68	4435.12
					4/6/16	126.77	4435.03
					7/14/16	127.85	4433.95
					11/2/16	128.39	4433.41
					1/24/17	127.73	4434.07
					9/6/17	128.56	4433.24
					1/10/18	129.09	4432.71
					7/12/18	129.61	4432.19
					1/10/19	129.96	4431.84
					7/18/19	130.42	4431.38
1/8/20	130.43	4431.37					
8/6/20	130.73	4431.07					
1/7/21	131.50	4430.30					
7/15/21	132.10	4429.70					
1/26/22	132.83	4428.97					
7/21/22	132.96	4428.84					

TABLE 4
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	600788.520	3468192.762	4560.31	12/1/14	126.73	4433.58
				4561.85	1/30/15	126.73	4435.12
					4/15/15	126.65	4435.20
					5/18/15	127.21	4434.64
					7/29/15	127.49	4434.36
					10/7/15	126.94	4434.91
					2/4/16	126.56	4435.29
					4/6/16	126.81	4435.04
					7/14/16	127.93	4433.92
					11/2/16	128.37	4433.48
					1/24/17	127.75	4434.10
					7/13/17	129.07	4432.78
					1/10/18	129.01	4432.84
					7/12/18	129.67	4432.18
					1/10/19	129.99	4431.86
					7/18/19	130.46	4431.39
1/8/20	130.35	4431.50					
8/6/20	130.75	4431.10					
1/7/21	131.51	4430.34					
7/15/21	132.12	4429.73					
1/26/22	132.81	4429.04					
7/21/22	133.00	4428.85					
BMO-2014-3BL	917527	600822.399	3467786.416	4572.213	2/13/15	136.57	4435.64
				4573.765	4/15/15	138.35	4435.42
					5/18/15	138.64	4435.13
					7/29/15	138.86	4434.91
					10/7/15	138.51	4435.26
					2/4/16	138.14	4435.63
					4/6/16	138.39	4435.38
					7/14/16	139.44	4434.33
					11/2/16	139.66	4434.11
					1/25/17	139.54	4434.23
					7/13/17	140.74	4433.03
					1/11/18	140.48	4433.29
					1/12/18	140.56	4433.21
					7/12/18	141.74	4432.03
					1/10/19	142.01	4431.76
					7/18/19	142.49	4431.28
1/9/20	142.76	4431.01					
8/6/20	142.99	4430.78					
1/7/21	143.90	4429.87					
7/15/21	144.45	4429.32					
1/27/22	145.15	4428.62					
8/1/22	145.37	4428.40					
BMO-2014-3BU	917494	600810.534	3467787.733	4572.213	2/24/15	137.91	4434.30
				4574.887	4/15/15	139.45	4435.44
					5/18/15	139.74	4435.15
					7/29/15	140.03	4434.86
					10/7/15	139.64	4435.25
					2/4/16	139.20	4435.69
					4/6/16	139.48	4435.41
					7/14/16	140.55	4434.34
					11/2/16	140.83	4434.06
					1/25/17	140.66	4434.23
					7/13/17	140.80	4434.09
					1/11/18	141.50	4433.39
					1/12/18	141.52	4433.37
					7/12/18	141.65	4433.24
					1/10/19	143.12	4431.77
					7/18/19	143.56	4431.33
1/9/20	143.84	4431.05					
8/6/20	144.08	4430.81					
1/7/21	144.99	4429.90					
7/15/21	145.56	4429.33					
1/27/22	146.24	4428.65					
8/1/22	146.58	4428.31					

TABLE 4
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-2014-4B	917620	600508.792	3468581.267	4566.453	3/4/15	132.43	4434.02
				4567.672	4/14/15	133.60	4434.07
					5/18/15	133.85	4433.82
					7/23/15	134.27	4433.40
					10/6/15	133.74	4433.93
					2/3/16	133.04	4434.63
					4/5/16	133.25	4434.42
					7/13/16	134.64	4433.03
					11/1/16	134.87	4432.80
					1/23/17	134.41	4433.26
					7/12/17	135.68	4431.99
					1/9/18	135.05	4432.62
					7/11/18	136.51	4431.16
					1/9/19	136.53	4431.14
					7/17/19	137.00	4430.67
1/7/20	137.04	4430.63					
8/5/20	137.37	4430.30					
1/6/21	138.09	4429.58					
7/14/21	138.73	4428.94					
1/25/22	139.30	4428.37					
7/20/22	139.63	4428.04					
BMO-2014-4BL	917619	600498.091	3468566.229	4566.453	3/11/15	131.89	4434.56
				4567.045	4/14/15	132.95	4434.10
					5/18/15	133.23	4433.82
					7/23/15	133.67	4433.38
					10/6/15	133.16	4433.89
					2/3/16	132.43	4434.62
					4/5/16	132.67	4434.38
					8/25/16	133.82	4433.23
					11/1/16	134.30	4432.75
					1/23/17	133.85	4433.20
					7/12/17	135.10	4431.95
					1/9/18	134.47	4432.58
					7/11/18	136.07	4430.98
					1/9/19	135.95	4431.10
					7/17/19	136.44	4430.61
1/7/20	136.46	4430.59					
8/5/20	136.86	4430.19					
1/6/21	137.55	4429.50					
7/14/21	138.15	4428.90					
1/25/22	138.74	4428.31					
7/20/22	138.98	4428.07					
BMO-2015-1B	917622	600261.991	3468563.389	4561.382	3/15/15	128.05	4433.33
				4562.063	4/14/15	129.10	4432.96
					5/18/15	129.24	4432.82
					7/23/15	129.62	4432.44
					10/6/15	129.02	4433.04
					2/3/16	128.41	4433.65
					4/5/16	128.45	4433.61
					8/25/16	130.05	4432.01
					11/1/16	130.38	4431.68
					1/23/17	130.28	4431.78
					7/12/17	131.14	4430.92
					1/9/18	130.50	4431.56
					7/11/18	131.87	4430.19
					1/9/19	132.24	4429.82
					7/17/19	132.79	4429.27
1/7/20	132.91	4429.15					
8/5/20	133.35	4428.71					
1/6/21	133.95	4428.11					
7/14/21	134.63	4427.43					
1/25/22	135.13	4426.93					
7/20/22	135.50	4426.56					

TABLE 4
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-2015-1BL	917621	600272.479	3468583.092	4561.382	3/12/15	129.10	4432.28
				4563.402	4/14/15	130.45	4432.95
					5/18/15	130.59	4432.81
					7/23/15	130.98	4432.42
					10/6/15	130.30	4433.10
					2/3/16	129.75	4433.65
					4/5/16	129.81	4433.59
					7/13/16	131.31	4432.09
					11/1/16	131.66	4431.74
					1/23/17	131.58	4431.82
					7/12/17	132.46	4430.94
					1/9/18	131.79	4431.61
					7/11/18	133.21	4430.19
					1/9/19	133.52	4429.88
					7/17/19	134.09	4429.31
1/7/20	134.18	4429.22					
8/5/20	134.62	4428.78					
1/6/21	135.25	4428.15					
3/9/21	135.21	4428.19					
7/14/21	135.90	4427.50					
1/25/22	136.41	4426.99					
7/20/22	136.82	4426.58					
BMO-2015-2B	917827	600267.799	3468996.635	4579.624	3/19/15	147.17	4432.45
				4582.082	4/14/15	149.05	4433.03
					5/18/15	149.18	4432.90
					7/23/15	149.47	4432.61
					10/6/15	148.94	4433.14
					2/3/16	148.45	4433.63
					4/5/16	148.37	4433.71
					7/13/16	149.88	4432.20
					11/1/16	150.30	4431.78
					1/23/17	150.12	4431.96
					7/12/17	150.99	4431.09
					1/9/18	150.43	4431.65
					7/11/18	151.72	4430.36
					1/9/19	152.10	4429.98
					7/17/19	152.71	4429.37
1/7/20	152.82	4429.26					
8/5/20	153.31	4428.77					
1/6/21	153.83	4428.25					
7/14/21	154.56	4427.52					
1/25/22	154.95	4427.13					
7/20/22	155.38	4426.70					
BMO-2015-2BL	917828	600252.069	3468983.910	4579.624	3/26/15	146.43	4433.19
				4580.644	4/14/15	147.60	4433.04
					5/18/15	147.82	4432.82
					7/23/15	148.12	4432.52
					10/6/15	147.56	4433.08
					2/3/16	147.06	4433.58
					4/5/16	146.99	4433.65
					7/13/16	148.52	4432.12
					11/1/16	149.00	4431.64
					1/23/17	148.80	4431.84
					7/12/17	149.64	4431.00
					1/9/18	149.09	4431.55
					7/11/18	150.39	4430.25
					1/9/19	150.76	4429.88
					7/17/19	151.37	4429.27
1/7/20	151.49	4429.15					
8/5/20	151.95	4428.69					
1/6/21	152.54	4428.10					
7/14/21	153.24	4427.40					
1/25/22	153.64	4427.00					
7/20/22	154.10	4426.54					

TABLE 4
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	601132.466	3468049.945	4568.21	1/15/13	131.47	4436.74
					4/19/13	132.04	4436.17
					10/18/13	132.56	4435.65
BURKE	212268	602230.087	3473029.816	4856.30	4/22/08	606.55	4249.75
					8/5/08	605.86	4250.44
					10/28/08	604.88	4251.42
					2/19/09	603.91	4252.39
					4/28/09	603.70	4252.60
					8/19/09	602.66	4253.64
					10/10/13	601.06	4255.24
					1/8/14	592.90	4263.40
					4/16/14	592.51	4263.79
					7/21/14	592.35	4263.95
					10/21/14	594.68	4261.62
COB MW-1	903992	603153.259	3469889.889	4683.26	8/3/15	587.06	4269.24
					2/22/08	232.47	4450.79
					5/20/08	233.12	4450.14
					7/30/08	233.37	4449.89
					10/23/08	233.62	4449.64
					2/12/09	234.05	4449.21
					4/21/09	234.99	4448.27
					7/22/09	234.34	4448.92
					10/22/09	234.69	4448.57
					2/4/10	235.15	4448.11
					4/20/10	235.47	4447.79
					7/13/10	235.68	4447.58
					7/14/11	236.98	4446.28
					7/12/12	238.24	4445.02
					2/5/13	239.11	4444.15
7/11/13	239.67	4443.59					
7/9/14	240.03	4443.23					
2/4/15	239.46	4443.80					
7/27/15	239.83	4443.43					
COB MW-1B	225906	603153.259 ²	3469889.889 ²	4683.26 ²	7/20/16	240.06	4443.20
					1/19/17	239.90	4443.36
					7/19/17	240.27	4442.99

TABLE 4
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	600973.257	3468114.836	4566.21	2/22/08	122.85	4443.36
					5/20/08	123.00	4443.21
					7/30/08	123.53	4442.68
					10/23/08	124.02	4442.19
					2/12/09	123.39	4442.82
					4/23/09	124.16	4442.05
					7/22/09	124.91	4441.30
					10/22/09	125.33	4440.88
					3/3/10	124.93	4441.28
					4/26/10	125.47	4440.74
					7/13/10	126.54	4439.67
					1/20/11	126.46	4439.75
					7/14/11	128.17	4438.04
					1/31/12	128.04	4438.17
					7/12/12	129.58	4436.63
					1/9/13	129.28	4436.93
					7/25/13	130.21	4436.00
					1/6/14	130.11	4436.10
					7/9/14	131.32	4434.89
					2/4/15	126.60	4439.61
					5/28/15	130.39	4435.82
					7/27/15	130.32	4435.89
					10/7/15	129.96	4436.25
					1/11/16	129.56	4436.65
					7/20/16	130.90	4435.31
					1/19/17	130.99	4435.22
					7/19/17	131.90	4434.31
					1/11/18	131.72	4434.49
7/17/18	132.56	4433.65					
1/15/19	133.13	4433.08					
7/24/19	133.54	4432.67					
1/14/20	133.82	4432.39					
8/11/20	134.02	4432.19					
1/12/21	134.86	4431.35					
7/21/21	135.43	4430.78					
2/8/22	135.5	4430.71					
8/3/22	136	4430					

TABLE 4
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-3	906823	599169.225	3468726.000	4538.63	2/28/08	120.84	4417.79
					5/20/08	125.00	4413.63
					7/30/08	118.50	4420.13
					10/23/08	117.93	4420.70
					2/12/09	110.91	4427.72
					4/23/09	125.13	4413.50
					7/22/09	124.09	4414.54
					10/22/09	118.03	4420.60
					3/3/10	120.14	4418.49
					4/26/10	123.12	4415.51
					7/13/10	128.60	4410.03
					7/14/11	132.41	4406.22
					7/12/12	133.89	4404.74
					2/5/13	123.68	4414.95
					7/25/13	129.05	4409.58
					1/6/14	127.52	4411.11
					7/9/14	124.19	4414.44
					2/4/15	115.11	4423.52
					7/27/15	118.39	4420.24
					10/7/15	114.37	4424.26
					1/11/16	112.93	4425.70
					7/20/16	120.25	4418.38
					1/27/17	126.14	4412.49
7/19/17	120.70	4417.93					
1/11/18	116.02	4422.61					
7/17/18	125.77	4412.86					
1/15/19	125.53	4413.10					
7/24/19	127.73	4410.90					
1/14/20	123.27	4415.36					
8/11/20	137.35	4401.28					
1/12/21	134.66	4403.97					
7/21/21	136.83	4401.80					
2/8/22	134.67	4403.96					
8/3/22	132	4407					
COB WL	593116	606357.506	3472502.012	4832.06	2/22/08	56.50	4775.56
					5/20/08	57.50	4774.56
					7/30/08	58.64	4773.42
					10/23/08	58.76	4773.30
					2/12/09	58.89	4773.17
					4/23/09	59.73	4772.33
					7/22/09	61.27	4770.79
					10/22/09	62.82	4769.24
					3/3/10	65.24	4766.82
					4/26/10	66.13	4765.93
					7/13/10	67.52	4764.54
					7/14/11	73.86	4758.20
					7/12/12	78.85	4753.21
					2/5/13	82.41	4749.65
					7/25/13	81.36	4750.70
					7/9/14	78.12	4753.94
					2/4/15	58.14	4773.92
					7/27/15	80.09	4751.97
					1/11/16	81.72	4750.34
					7/20/16	84.80	4747.26
					1/25/17	87.06	4745.00
					7/14/17	89.96	4742.10
					1/11/18	89.87	4742.19
7/9/18	91.48	4740.58					
1/7/19	91.73	4740.33					
7/15/19	92.89	4739.17					
1/7/20	93.72	4738.34					
8/4/20	94.79	4737.27					
1/6/21	95.93	4736.13					
7/12/21	97.54	4734.52					
8/3/22	98.70	4733.36					

TABLE 4
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)
COLLINS	565260	602551.286	3471341.335	4733.72	2/12/08	289.47	4444.25
					5/29/08	288.53	4445.19
					7/31/08	290.08	4443.64
					10/20/08	290.15	4443.57
					4/21/09	290.66	4443.06
					7/20/09	290.78	4442.94
					10/20/09	290.52	4443.20
					2/2/10	291.64	4442.08
COOPER 988	232988	602200.984	3471719.987	4748.95	4/23/10	291.96	4441.76
					7/20/10	292.21	4441.51
					7/16/21	326.57	4422.38
COOPER C	637069	601349.987	3468913.011	4599.14	1/28/22	326.10	4422.85
					7/8/22	327.23	4421.72
					3/4/08	155.08	4444.06
					5/5/08	155.34	4443.80
					7/15/08	156.01	4443.13
					10/16/08	155.85	4443.29
					1/27/09	155.62	4443.52
					4/14/09	155.86	4443.28
					7/14/09	156.50	4442.64
					10/12/09	156.89	4442.25
					1/27/10	157.03	4442.11
					4/22/10	157.31	4441.83
					7/21/10	158.00	4441.14
					10/20/10	158.41	4440.73
					1/17/11	158.37	4440.77
					4/11/11	158.74	4440.40
					8/26/11	159.51	4439.63
					10/13/11	159.81	4439.33
					2/1/12	159.80	4439.34
					4/25/12	160.26	4438.88
					7/12/12	160.88	4438.26
					10/10/12	161.10	4438.04
					2/27/13	161.40	4437.74
					5/8/13	161.70	4437.44
					8/13/13	162.07	4437.07
					11/1/13	162.23	4436.91
					2/10/14	161.90	4437.24
					5/7/14	162.63	4436.51
					7/21/14	162.67	4436.47
					11/13/14	162.48	4436.66
					5/19/15	162.14	4437.00
					9/10/15	162.14	4437.00
10/21/15	162.17	4436.97					
3/16/16	161.76	4437.38					
8/18/16	162.78	4436.36					
7/13/17	162.68	4436.46					
2/5/18	163.66	4435.48					
7/25/18	164.42	4434.72					
1/28/19	164.72	4434.42					
8/19/19	165.43	4433.71					
8/17/20	165.98	4433.16					
3/15/21	166.65	4432.49					
7/27/21	167.22	4431.92					
3/9/22	167.82	4431.32					
7/25/22	168.15	4430.99					

TABLE 4
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)
DODSON	644927	605594.560	3469063.772	4686.34	5/12/08	81.38	4604.96
					7/24/08	82.20	4604.14
					10/13/08	81.82	4604.52
					1/22/09	82.33	4604.01
					4/9/09	82.84	4603.50
					7/8/09	86.88	4599.46
					10/6/09	87.27	4599.07
					1/21/10	88.54	4597.80
					4/19/10	89.53	4596.81
					7/20/10	90.79	4595.55
					10/18/10	90.33	4596.01
					1/19/11	90.34	4596.00
					4/5/11	91.05	4595.29
					7/12/11	92.07	4594.27
					10/10/11	93.11	4593.23
					1/31/12	93.68	4592.66
					4/12/12	94.19	4592.15
					10/4/12	97.80	4588.54
					1/18/13	99.73	4586.61
					4/9/13	98.09	4588.25
					7/9/13	98.38	4587.96
					10/9/13	92.69	4593.65
					1/9/14	93.21	4593.13
					4/15/14	94.64	4591.70
					7/14/14	95.43	4590.91
					10/16/14	97.22	4589.12
					1/26/15	95.81	4590.53
					7/23/15	97.32	4589.02
					1/12/16	99.34	4587.00
					7/18/16	103.91	4582.43
7/17/17	103.07	4583.27					
1/17/18	101.44	4584.90					
7/30/18	117.18	4569.16					
1/15/19	105.08	4581.26					
7/9/19	104.16	4582.18					
1/15/20	101.82	4584.52					
8/13/20	99.10	4587.24					
1/11/21	99.72	4586.62					
7/21/21	101.04	4585.30					
1/28/22	99.68	4586.66					
7/6/22	99.22	4587.12					

TABLE 4
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	607632.993	3470222.677	4703.27	2/13/08	22.11	4681.16
					5/13/08	24.60	4678.67
					7/22/08	27.00	4676.27
					10/16/08	23.60	4679.67
					1/19/09	26.51	4676.76
					4/8/09	28.53	4674.74
					7/7/09	31.04	4672.23
					10/5/09	31.49	4671.78
					1/21/10	34.55	4668.72
					4/19/10	36.40	4666.87
					7/12/10	36.74	4666.53
					1/18/11	25.96	4677.31
					1/30/12	27.72	4675.55
					4/11/12	29.99	4673.28
					7/5/12	32.67	4670.60
					1/9/13	27.24	4676.03
					7/8/13	32.70	4670.57
					1/6/14	23.56	4679.71
					7/7/14	28.22	4675.05
					7/20/15	30.86	4672.41
7/11/16	32.09	4671.18					
7/13/17	31.58	4671.69					
8/1/18	36.48	4666.79					
7/11/19	27.35	4675.92					
8/14/20	27.69	4675.58					
7/19/21	32.38	4670.89					
7/8/22	37.92	4665.35					
DOUGLASS 792	592792	607607.541	3469829.115	4681.73	2/13/08	87.76	4593.97
					5/13/08	87.21	4594.52
					7/22/08	86.90	4594.83
					10/16/08	86.45	4595.28
					1/20/09	86.26	4595.47
					4/8/09	86.04	4595.69
					7/7/09	86.16	4595.57
					10/5/09	86.19	4595.54
					1/21/10	86.45	4595.28
					4/19/10	87.19	4594.54
					7/12/10	87.55	4594.18
					1/18/11	87.8	4593.93
					7/12/11	88.38	4593.35
					1/30/12	88.92	4592.81
					4/11/12	89.18	4592.55
					7/5/12	95.64	4586.09
					1/9/13	82.60	4599.13
					7/8/13	83.66	4598.07
					1/6/14	83.55	4598.18
					7/7/14	82.43	4599.30
7/20/15	82.57	4599.16					
7/11/16	83.48	4598.25					
7/13/17	84.43	4597.30					
8/1/18	85.76	4595.97					
7/11/19	85.39	4596.34					
8/14/20	85.28	4596.45					
7/19/21	86.15	4595.58					
7/8/22	87.30	4594.43					

TABLE 4
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	607076.365	3468712.215	4626.01	2/8/08	50.20	4575.81
					5/14/08	52.45	4573.56
					7/23/08	52.16	4573.85
					10/14/08	52.19	4573.82
					1/20/09	50.52	4575.49
					4/8/09	51.91	4574.10
					7/13/09	56.93	4569.08
					10/8/09	60.95	4565.06
					1/25/10	59.35	4566.66
					4/21/10	58.88	4567.13
					7/14/10	61.86	4564.15
					10/20/10	61.20	4564.81
					1/18/11	59.79	4566.22
					4/5/11	59.73	4566.28
					7/12/11	63.79	4562.22
					10/12/11	63.64	4562.37
					1/31/12	63.82	4562.19
					4/11/12	65.72	4560.29
					7/9/12	70.50	4555.51
					10/4/12	73.34	4552.67
					1/17/13	75.04	4550.97
					4/9/13	78.05	4547.96
					7/9/13	78.37	4547.64
					10/15/13	72.38	4553.63
1/14/14	71.88	4554.13					
4/8/14	71.03	4554.98					
7/8/14	72.03	4553.98					
10/22/14	67.75	4558.26					
7/24/15	74.64	4551.37					
7/12/16	65.02	4560.99					
7/27/17	67.11	4558.90					
7/30/18	77.95	4548.06					
7/17/19	79.28	4546.73					
8/13/20	77.26	4548.75					
7/23/21	78.88	4547.13					
7/7/22	78.45	4547.56					
ECHAVE	219449	599701	3470168	4648	2/1/12	216.71	4431.29
					1/18/13	218.41	4429.59
					7/28/17	220.49	4427.51
					2/23/18	219.94	4428.06
					7/17/18	220.37	4427.63
					1/15/19	220.49	4427.51
					7/23/19	220.93	4427.07
					1/21/20	221.16	4426.84
					8/10/20	221.50	4426.50
					1/5/21	222.04	4425.96
7/21/21	222.59	4425.41					
1/26/22	222.93	4425.07					

TABLE 4
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)
EPPEL 641	805641	607165.354	3469229.942	4642.86	3/11/08	29.52	4613.34
					5/12/08	30.64	4612.22
					7/21/08	25.59	4617.27
					10/14/08	24.53	4618.33
					1/21/09	27.35	4615.51
					4/8/09	29.08	4613.78
					7/9/09	31.51	4611.35
					10/7/09	29.92	4612.94
					7/20/10	50.38	4592.48
					10/20/10	48.88	4593.98
					1/17/11	51.13	4591.73
					4/5/11	53.81	4589.05
					7/11/11	56.82	4586.04
					10/12/11	37.62	4605.24
					1/31/12	46.80	4596.06
					4/11/12	52.07	4590.79
					7/6/12	62.39	4580.47
					10/3/12	71.66	4571.20
					1/17/13	59.73	4583.13
					4/8/13	83.98	4558.88
7/9/13	92.84	4550.02					
10/15/13	28.50	4614.36					
1/14/14	49.32	4593.54					
4/8/14	52.03	4590.83					
7/8/14	66.62	4576.24					
10/21/14	24.56	4618.30					
7/24/15	41.32	4601.54					
7/12/16	38.41	4604.45					
7/27/17	48.58	4594.28					
7/31/18	62.29	4580.57					
7/19/19	29.30	4613.56					
2/8/22	28.02	4614.84					
FLEMING	218386	605565.701	3469342.523	4693.68	2/18/09	299.30	4394.38
					4/8/09	301.81	4391.87
					7/7/09	304.60	4389.08
					10/6/09	307.84	4385.84
					1/21/10	311.73	4381.95
					4/20/10	315.26	4378.42
					7/15/10	318.32	4375.36
					11/4/10	349.62	4344.06
					1/19/11	356.89	4336.79
					7/12/11	364.72	4328.96
					2/3/12	370.84	4322.84
					7/9/12	373.86	4319.82
					1/18/13	373.96	4319.72
7/17/13	374.88	4318.80					
1/10/14	379.63	4314.05					
7/17/14	372.97	4320.71					
FRANCO 101	500101	602848.756	3468830.905	4636.75	4/10/13	196.05	4440.70
					7/10/13	196.19	4440.56
					10/16/13	196.65	4440.10
					1/14/14	196.77	4439.98
					4/8/14	196.86	4439.89
					7/14/14	197.08	4439.67
10/8/14	197.91	4438.84					

TABLE 4
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)
FRANCO 383	221383	602817.854	3468831.563	4636.88	9/13/12	195.19	4441.69
					10/5/12	195.00	4441.88
					12/3/12	196.70	4440.18
					1/15/13	196.30	4440.58
					2/6/13	195.62	4441.26
					3/7/13	196.20	4440.68
					4/10/13	196.25	4440.63
					7/10/13	196.13	4440.75
					10/16/13	196.30	4440.58
					1/14/14	196.46	4440.42
					4/8/14	196.89	4439.99
					7/14/14	196.87	4440.01
				10/8/14	196.86	4440.02	
				7/27/15	198.11	4438.77	
				7/18/16	197.32	4439.56	
				7/20/17	198.37	4438.51	
7/27/18	198.73	4438.15					
4635.79	7/24/19	199.56	4436.23				
	8/12/20	200.58	4435.21				
	7/22/21	200.62	4435.17				
	7/7/22	203.32	4432.47				
FULTZ	212447	607153.306	3469063.892	4642.92	10/22/08	40.59	4602.33
					1/21/09	40.66	4602.26
					4/9/09	42.88	4600.04
					7/13/09	54.94	4587.98
					10/8/09	56.16	4586.76
					1/25/10	53.45	4589.47
					4/20/10	63.82	4579.10
7/14/10	119.86	4523.06					
GARNER 557	558557	602659.240	3468962.415	4638.45	2/21/08	191.05	4447.40
					5/5/08	191.28	4447.17
					7/15/08	191.44	4447.01
					10/16/08	191.83	4446.62
					1/28/09	191.92	4446.53
					4/15/09	192.09	4446.36
					7/16/09	192.52	4445.93
					10/14/09	192.82	4445.63
					2/2/10	193.33	4445.12
					4/22/10	193.49	4444.96
					7/20/10	193.93	4444.52
					10/19/10	194.29	4444.16
					1/19/11	194.61	4443.84
					4/6/11	194.86	4443.59
					7/15/11	195.25	4443.20
					10/11/11	195.72	4442.73
					2/2/12	196.09	4442.36
					4/13/12	196.30	4442.15
					7/11/12	196.72	4441.73
					10/5/12	197.08	4441.37
					1/11/13	197.51	4440.94
					4/15/13	197.76	4440.69
					7/10/13	197.87	4440.58
10/11/13	198.27	4440.18					
1/17/14	198.46	4439.99					
4/15/14	198.58	4439.87					
8/6/20	202.36	4436.09					
1/11/21	202.85	4435.60					
7/21/21	203.52	4434.93					
2/1/22	204.16	4434.29					
7/12/22	204.56	4433.89					

TABLE 4
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	602665.352	3468967.902	4640.74	2/4/08	193.20	4447.54
					5/5/08	195.90	4444.84
					7/15/08	193.58	4447.16
					10/15/08	194.35	4446.39
					1/28/09	194.80	4445.94
					4/15/09	195.54	4445.20
					7/16/09	194.88	4445.86
					10/14/09	196.36	4444.38
					2/2/10	195.32	4445.42
					4/22/10	196.01	4444.73
					8/25/10	195.57	4445.17
					10/19/10	225.83	4414.91
					1/19/11	196.89	4443.85
					4/6/11	197.40	4443.34
					7/15/11	198.07	4442.67
					10/11/11	197.75	4442.99
					2/2/12	199.50	4441.24
					4/13/12	200.40	4440.34
					7/11/12	199.15	4441.59
					10/5/12	202.71	4438.03
					1/11/13	199.38	4441.36
					4/15/13	200.53	4440.21
					7/10/13	200.13	4440.61
10/11/13	200.27	4440.47					
1/17/14	201.83	4438.91					
4/15/14	200.67	4440.07					
7/26/17	202.02	4438.72					
1/16/18	202.07	4438.67					
7/24/18	205.65	4435.09					
1/15/19	203.03	4437.71					
7/15/19	208.66	4432.08					
8/6/20	204.32	4436.42					
7/21/21	206.36	4434.38					
2/1/22	206.06	4434.68					
7/12/22	206.52	4434.22					
GGOOSE 547	628547	606256.657	3469820.260	4717.11	5/21/08	220.91	4496.20
					8/15/08	238.48	4478.63
					10/29/08	235.90	4481.21
					2/24/09	236.13	4480.98
					5/14/09	236.17	4480.94
					8/19/09	236.01	4481.10
					8/19/09	236.01	4481.10
					11/11/09	237.66	4479.45
					3/9/10	238.84	4478.27
4/27/10	239.17	4477.94					
GL-03	539782	604386.940	3473747.943	4924.31	5/22/08	660.15	4264.16
					8/4/08	659.79	4264.52
					12/2/08	658.25	4266.06
					2/26/09	658.62	4265.69
					5/5/09	657.23	4267.08
					8/12/09	656.56	4267.75
					8/12/09	656.56	4267.75
					11/10/09	655.31	4269.00
					3/2/10	655.52	4268.79
					4/9/10	655.35	4268.96
7/7/10	655.05	4269.26					
2/1/12	651.72	4272.59					

TABLE 4
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	2/21/08	183.90	4447.23
					5/5/08	188.11	4443.02
					7/16/08	184.41	4446.72
					10/22/08	184.68	4446.45
					1/27/09	184.87	4446.26
					4/15/09	184.96	4446.17
					7/7/09	185.36	4445.77
					10/12/09	185.72	4445.41
					2/2/10	186.25	4444.88
					4/22/10	186.44	4444.69
					7/13/10	186.76	4444.37
					1/19/11	187.52	4443.61
					7/12/11	188.24	4442.89
					2/6/12	189.02	4442.11
					9/13/12	190.08	4441.05
					1/11/13	190.48	4440.65
					9/18/13	191.21	4439.92
					1/17/14	191.48	4439.65
					7/21/14	191.73	4439.40
					2/2/15	191.44	4439.69
					8/4/15	191.74	4439.39
					1/11/16	191.68	4439.45
					7/25/16	191.83	4439.30
					1/17/17	192.43	4438.70
7/12/17	192.84	4438.29					
1/15/18	193.12	4438.01					
7/17/18	193.56	4437.57					
1/7/19	194.16	4436.97					
7/8/19	194.68	4436.45					
1/21/20	195.19	4435.94					
7/20/20	195.34	4435.79					
1/5/21	195.91	4435.22					
7/12/21	196.50	4434.63					
1/27/22	197.19	4433.94					
7/11/22	197.51	4433.62					

TABLE 4
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	601705.848	3468880.329	4607.60	2/27/08	163.05	4444.55
					5/7/08	163.28	4444.32
					7/14/08	163.87	4443.73
					10/16/08	163.95	4443.65
					1/28/09	163.82	4443.78
					4/15/09	164.16	4443.44
					7/14/09	164.59	4443.01
					10/15/09	165.00	4442.60
					3/2/10	165.32	4442.28
					5/18/10	165.71	4441.89
					7/20/10	166.17	4441.43
					10/19/10	166.45	4441.15
					8/31/11	167.76	4439.84
					12/14/11	168.13	4439.47
					2/1/12	168.09	4439.51
					4/19/12	168.32	4439.28
					7/11/12	169.10	4438.50
					10/17/12	169.40	4438.20
					2/15/13	169.70	4437.90
					5/8/13	169.95	4437.65
					8/13/13	170.31	4437.29
					11/1/13	170.54	4437.06
					2/10/14	170.22	4437.38
					5/7/14	170.61	4436.99
					7/21/14	170.90	4436.70
					11/13/14	170.81	4436.79
					2/4/15	170.26	4437.34
					5/19/15	170.37	4437.23
					9/10/15	170.57	4437.03
					10/21/15	170.58	4437.02
3/16/16	170.33	4437.27					
8/18/16	171.05	4436.55					
3/7/17	171.41	4436.19					
7/13/17	172.00	4435.60					
2/5/18	172.12	4435.48					
7/25/18	172.74	4434.86					
1/28/19	173.29	4434.31					
8/7/19	173.88	4433.72					
2/20/20	174.29	4433.31					
9/8/20	174.47	4433.13					
3/15/21	175.10	4432.50					
3/9/22	176.25	4431.35					
7/25/22	176.56	4431.04					
HOWARD 312	221312	601308.920	3468772.630	4594.9356	8/14/12	188.36	4406.58
					10/16/12	193.33	4401.61
					2/6/13	193.74	4401.20
					4/9/13	195.30	4399.64
					7/12/13	198.27	4396.67
					10/16/13	201.08	4393.86
					1/8/14	202.61	4392.33
					4/10/14	204.64	4390.30
					7/14/14	206.97	4387.97
					10/10/14	206.36	4388.58
					5/19/15	208.08	4386.86
					7/31/15	210.54	4384.40
					7/27/16	207.89	4387.05
					7/21/17	207.54	4387.40
					7/23/18	204.95	4389.99
					7/9/19	206.58	4388.36
7/21/20	205.37	4389.57					
7/28/21	214.78	4380.16					
7/13/22	206.32	4388.62					

TABLE 4
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	601281.159	3468770.377	4593.91	3/4/08	150.10	4443.81
					5/8/08	150.70	4443.21
					7/14/08	150.91	4443.00
					10/15/08	150.67	4443.24
					1/28/09	150.67	4443.24
					4/15/09	151.15	4442.76
					7/15/09	151.76	4442.15
					10/12/09	152.08	4441.83
					1/27/10	152.20	4441.71
					4/21/10	152.30	4441.61
					7/19/10	153.16	4440.75
					10/18/10	153.53	4440.38
					1/17/11	153.51	4440.40
					4/11/11	154.24	4439.67
					8/26/11	154.79	4439.12
					10/11/11	155.02	4438.89
					2/1/12	155.08	4438.83
					4/13/12	155.40	4438.51
					9/13/12	156.29	4437.62
					10/16/12	156.43	4437.48
					2/6/13	156.27	4437.64
					4/9/13	156.71	4437.20
					7/12/13	157.18	4436.73
					10/16/13	157.52	4436.39
					1/8/14	157.16	4436.75
					4/10/14	157.55	4436.36
					7/14/14	157.92	4435.99
					10/10/14	157.68	4436.23
					2/2/15	157.11	4436.80
					5/19/15	157.31	4436.60
7/31/15	157.58	4436.33					
10/8/15	157.36	4436.55					
1/12/16	157.01	4436.90					
7/27/16	157.93	4435.98					
1/16/17	158.23	4435.68					
7/21/17	158.84	4435.07					
1/15/18	158.86	4435.05					
7/23/18	159.64	4434.27					
1/14/19	160.18	4433.73					
7/9/19	160.66	4433.25					
1/17/20	160.96	4432.95					
7/21/20	161.07	4432.84					
1/4/21	161.71	4432.20					
7/28/21	162.43	4431.48					
1/27/22	163.01	4430.90					
7/13/22	163.37	4430.54					

TABLE 4
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	599879.175	3468119.015	4572.03	2/6/08	134.67	4437.36
					5/6/08	135.28	4436.75
					7/16/08	136.24	4435.79
					10/28/08	135.87	4436.16
					1/28/09	134.88	4437.15
					4/16/09	135.00	4437.03
					7/14/09	136.07	4435.96
					10/13/09	136.67	4435.36
					1/26/10	136.26	4435.77
					4/20/10	136.26	4435.77
					7/15/10	137.29	4434.74
					10/19/10	137.68	4434.35
					1/18/11	137.42	4434.61
					4/6/11	137.91	4434.12
					7/18/11	140.39	4431.64
					10/11/11	141.68	4430.35
					2/6/12	139.27	4432.76
					4/23/12	139.76	4432.27
					7/17/12	140.69	4431.34
					10/9/12	141.00	4431.03
					1/10/13	140.80	4431.23
					4/8/13	141.32	4430.71
					7/11/13	141.81	4430.22
					10/7/13	141.63	4430.40
					1/7/14	141.10	4430.93
					4/9/14	140.91	4431.12
					7/10/14	141.97	4430.06
					10/8/14	141.45	4430.58
					5/19/15	140.47	4431.56
					7/21/15	140.80	4431.23
10/8/15	140.21	4431.82					
1/14/16	139.54	4432.49					
7/25/16	143.37	4428.66					
7/25/17	142.64	4429.39					
2/23/18	142.25	4429.78					
7/9/18	143.46	4428.57					
1/11/19	144.10	4427.93					
7/10/19	144.82	4427.21					
1/17/20	144.79	4427.24					
7/22/20	145.42	4426.61					
1/12/21	146.11	4425.92					
7/13/21	146.78	4425.25					
1/25/22	147.14	4424.89					
7/7/22	147.47	4424.56					

TABLE 4
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	3/22/13	221.32	4222.51
					6/14/13	221.78	4222.05
					9/24/13	219.6	4224.23
					12/3/13	217.44	4226.39
					2/25/14	217.59	4226.24
					6/4/14	218.27	4225.56
					9/10/14	219.04	4224.79
					11/20/14	213.58	4230.25
					3/24/15	214.18	4229.65
					9/17/15	216.39	4227.44
					3/24/16	217.85	4225.98
					9/28/16	219.8	4224.03
					3/20/17	220.91	4222.92
					8/10/17	222.12	4221.71
					3/8/18	222.94	4220.89
					8/22/18	223.64	4220.19
					2/14/19	224.29	4219.54
					9/9/19	225.05	4218.78
2/27/20	225.45	4218.38					
8/25/20	225.33	4218.50					
3/23/21	225.80	4218.03					
9/20/21	226.48	4217.35					
3/14/22	225.62	4218.21					
9/22/22	225.65	4218.18					
LADD 538	505538	596790.675	3469638.573	4527.05	2/9/10	253.10	4273.95
					4/28/10	253.83	4273.22
					7/28/10	254.05	4273.00
					12/8/10	252.87	4274.18
					3/17/11	252.76	4274.29
					6/24/11	288.00	4239.05
					9/29/11	276.58	4250.47
					12/16/11	250.68	4276.37
					2/15/12	253.80	4273.25
					6/11/12	258.90	4268.15
					9/26/12	255.76	4271.29
					12/19/12	249.43	4277.62
					3/22/13	250.51	4276.54
					6/27/13	270.00	4257.05
					9/24/13	250.80	4276.25
					12/3/13	251.36	4275.69
					2/25/14	253.36	4273.69
					6/4/14	259.63	4267.42
					9/10/14	248.68	4278.37
					11/20/14	268.66	4258.39
					3/24/15	248.46	4278.59
					9/17/15	243.05	4284.00
					3/24/16	266.62	4260.43
					9/28/16	246.14	4280.91
					3/20/17	232.53	4294.52
					8/10/17	227.4	4299.65
3/8/18	222.4	4304.65					
8/22/18	219.90	4307.15					
2/14/19	217.80	4309.25					
9/9/19	216.22	4310.83					
2/27/20	215.26	4311.79					
8/25/20	213.80	4313.25					
3/23/21	212.10	4314.95					
9/20/21	211.29	4315.76					
3/14/22	210.27	4316.78					
9/22/22	209.33	4317.72					

TABLE 4
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	7/18/15	169.31	4429.68
					12/17/15	169.54	4429.45
					3/31/16	169.56	4429.43
					9/28/16	170.21	4428.78
					11/22/16	170.90	4428.09
					3/20/17	184.94	4414.05
					8/24/17	172.09	4426.90
					3/8/18	172.22	4426.77
					8/22/18	173.07	4425.92
					2/14/19	173.20	4425.79
					9/9/19	174.03	4424.96
2/27/20	173.85	4425.14					
8/25/20	186.34	4412.65					
LADD 837	519837	594757.700	3470817.194	4470.11	2/9/10	262.80	4207.31
					4/28/10	262.65	4207.46
					7/28/10	265.75	4204.36
					12/8/10	262.38	4207.73
					3/17/11	262.65	4207.46
					6/24/11	262.51	4207.60
					9/29/11	262.28	4207.83
					12/16/11	264.32	4205.79
					2/15/12	262.24	4207.87
					6/11/12	264.04	4206.07
					9/26/12	261.75	4208.36
					12/19/12	261.94	4208.17
					3/27/13	266.68	4203.43
					6/14/13	261.51	4208.60
					9/24/13	261.38	4208.73
					12/3/13	260.85	4209.26
					2/25/14	261.04	4209.07
					6/4/14	262.53	4207.58
					9/10/14	263.68	4206.43
					11/20/14	261.18	4208.93
					3/24/15	261.44	4208.67
					9/17/15	264.32	4205.79
					3/24/16	261.79	4208.32
					9/28/16	262.8	4207.31
					3/20/17	261.3	4208.81
					8/10/17	262.0	4208.11
					3/8/18	283.2	4186.90
8/22/18	281.46	4188.65					
2/14/19	341.04	4129.07					
9/9/19	295.40	4174.71					
2/27/20	304.30	4165.81					
8/25/20	299.29	4170.82					
3/23/21	317.23	4152.88					
9/20/21	295.30	4174.81					
3/14/22	294.03	4176.08					
9/22/22	295.82	4174.29					

TABLE 4
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	597619.168	3468714.011	4513.40	3/17/11	82.32	4431.08
					6/24/11	84.00	4429.40
					9/29/11	83.62	4429.78
					12/16/11	84.8	4428.60
					2/15/12	84.67	4428.73
					6/11/12	85.7	4427.70
					9/26/12	84.96	4428.44
					12/19/12	86.27	4427.13
					3/22/13	85.18	4428.22
					6/14/13	86.54	4426.86
					9/24/13	82.66	4430.74
					12/3/13	84.48	4428.92
					2/25/14	85.27	4428.13
					6/4/14	85.88	4427.52
					9/10/14	86.15	4427.25
					11/20/14	80.95	4432.45
					3/24/15	83.73	4429.67
					5/19/15	84.28	4429.12
					9/17/15	86.44	4426.96
					12/17/15	86.81	4426.59
					3/24/16	87.22	4426.18
					9/28/16	86.11	4427.29
					3/20/17	86.55	4426.85
					8/10/17	87.9	4425.50
3/8/18	87.92	4425.48					
8/22/18	88.92	4424.48					
2/14/19	87.5	4425.90					
9/9/19	89.27	4424.13					
2/27/20	87.47	4425.93					
8/25/20	89.28	4424.12					
3/23/21	90.20	4423.20					
9/20/21	88.60	4424.80					
3/14/22	90.74	4422.66					
9/22/22	88.76	4424.64					

TABLE 4
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	601463.094	3468840.139	4600.70	2/20/08	156.15	4444.55
					5/6/08	156.40	4444.30
					7/15/08	157.07	4443.63
					11/19/08	157.17	4443.53
					1/28/09	156.70	4444.00
					4/15/09	157.22	4443.48
					7/15/09	157.59	4443.11
					10/12/09	158.13	4442.57
					1/26/10	158.35	4442.35
					4/22/10	158.68	4442.02
					7/21/10	159.37	4441.33
					10/18/10	159.63	4441.07
					1/19/11	159.69	4441.01
					4/8/11	159.10	4441.60
					7/12/11	160.77	4439.93
					10/11/11	161.17	4439.53
					2/7/12	161.31	4439.39
					4/11/12	161.57	4439.13
					7/6/12	162.36	4438.34
					10/8/12	162.43	4438.27
					1/10/13	162.57	4438.13
					4/18/13	163.08	4437.62
					10/14/13	163.61	4437.09
					1/8/14	163.42	4437.28
					4/14/14	163.79	4436.91
					7/14/14	164.03	4436.67
					10/7/14	163.89	4436.81
					2/2/15	163.32	4437.38
					5/19/15	163.54	4437.16
					7/31/15	163.83	4436.87
10/8/15	163.64	4437.06					
1/11/16	163.36	4437.34					
7/26/16	167.70	4433.00					
1/16/17	164.46	4436.24					
7/20/17	165.09	4435.61					
1/15/18	165.10	4435.60					
7/17/18	165.09	4435.61					
1/9/19	166.29	4434.41					
7/10/19	166.91	4433.79					
1/16/20	167.28	4433.42					
8/10/20	167.46	4433.24					
1/5/21	167.96	4432.74					
7/27/21	168.73	4431.97					
1/27/22	169.37	4431.33					
7/12/22	169.66	4431.04					
MCCONNELL 459	221459	601471.708	3468840.682	4601.55	7/27/12	170.50	4431.05
					10/8/12	166.81	4434.74
					1/15/13	166.32	4435.23
					4/10/13	166.79	4434.76
					7/19/13	167.53	4434.02
					10/14/13	167.13	4434.42
					1/8/14	167.90	4433.65
					4/14/14	167.28	4434.27
					9/9/14	167.37	4434.18
					10/7/14	167.24	4434.31
					5/19/15	168.03	4433.52
					7/31/15	170.86	4430.69
					7/26/16	167.13	4434.42
					7/20/17	168.58	4432.97
					7/17/18	169.08	4432.47
7/10/19	170.81	4430.74					
8/10/20	171.11	4430.44					
7/27/21	171.67	4429.88					
7/12/22	179.50	4422.05					

TABLE 4
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	602091.308	3471381.176	4728.53	3/5/08	288.30	4440.23
					5/15/08	286.53	4442.00
					7/31/08	286.82	4441.71
					10/20/08	287.09	4441.44
					2/11/09	287.74	4440.79
					4/20/09	287.47	4441.06
					7/15/09	287.58	4440.95
					10/14/09	287.99	4440.54
					2/1/10	288.38	4440.15
					5/18/10	288.65	4439.88
					7/16/10	288.88	4439.65
					10/19/10	289.09	4439.44
					1/19/11	289.54	4438.99
					4/4/11	289.87	4438.66
					7/12/11	289.98	4438.55
					10/12/11	290.47	4438.06
					2/7/12	290.92	4437.61
					4/12/12	291.15	4437.38
					7/18/12	291.37	4437.16
					10/4/12	291.63	4436.90
					1/11/13	292.15	4436.38
					4/11/13	292.29	4436.24
					7/17/13	292.43	4436.10
					10/17/13	292.86	4435.67
					1/16/14	293.20	4435.33
					4/15/14	293.20	4435.33
					7/21/14	293.45	4435.08
					10/8/14	293.62	4434.91
					1/27/15	293.36	4435.17
					8/3/15	293.54	4434.99
1/12/16	293.69	4434.84					
7/25/16	293.40	4435.13					
1/17/17	294.09	4434.44					
7/14/17	294.38	4434.15					
1/15/18	294.51	4434.02					
7/17/18	294.94	4433.59					
1/14/19	295.08	4433.45					
7/12/19	295.54	4432.99					
1/15/20	295.76	4432.77					
8/11/20	295.97	4432.56					
1/7/21	296.41	4432.12					
7/19/21	297.02	4431.51					
1/31/22	297.64	4430.89					
7/7/22	298.22	4430.31					
MOORE	538847	599499.9949	3468066.557	4568.49	8/1/18	155.64	4412.85
					7/9/19	157.43	4411.06
					7/22/20	157.32	4411.17
					7/28/21	158.86	4409.63
					7/7/22	159.46	4409.03

TABLE 4
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	7/24/08	557.90	4203.33
					10/16/08	549.30	4211.93
					2/25/09	536.40	4224.83
					5/11/09	544.64	4216.59
					8/11/09	566.87	4194.36
					11/12/09	537.34	4223.89
					2/2/10	531.85	4229.38
					4/21/10	568.11	4193.12
					7/19/10	573.02	4188.21
					1/18/11	541.80	4219.43
					7/12/11	597.71	4163.52
					2/3/12	591.24	4169.99
					1/9/13	551.35	4209.88
					1/6/14	538.84	4222.39
					7/7/14	594.42	4166.81
					7/20/15	553.54	4207.69
7/11/16	556.90	4204.33					
7/27/17	550.36	4210.87					
7/31/18	538.72	4222.51					
7/11/19	575.06	4186.17					
8/14/20	584.34	4176.89					
7/19/21	610.72	4150.51					
NOTEMAN	212483	606053.800	3471576.400	4800.68	5/13/08	339.77	4460.91
					8/27/08	344.34	4456.34
					11/22/08	322.26	4478.42
					2/25/09	327.54	4473.14
NSD-02	527587	598820.051	3468821.474	4531.38	10/7/09	101.17	4430.21
					3/16/10	99.43	4431.95
					5/25/10	101.63	4429.75
					8/25/10	102.38	4429.00
					3/17/11	102.68	4428.70
					6/17/11	109.29	4422.09
					12/7/11	104.41	4426.97
					3/6/12	104.30	4427.08
					12/14/12	107.24	4424.14
					3/22/13	107.20	4424.18
					6/24/13	113.50	4417.88
					9/23/13	105.00	4426.38
					12/19/13	103.45	4427.93
					3/24/14	103.12	4428.26
					6/23/14	107.06	4424.32
					9/23/14	104.77	4426.61
					12/22/14	101.30	4430.08
					3/23/15	101.56	4429.82
					6/22/15	104.33	4427.05
					9/28/15	113.64	4417.74
					12/21/15	112.43	4418.95
					3/21/16	113.42	4417.96
					6/20/16	114.78	4416.60
					9/29/16	103.99	4427.39
					3/16/17	105.44	4425.94
					9/30/17	108.89	4422.49
3/26/18	106.02	4425.36					
9/24/18	106.13	4425.25					
3/18/19	105.00	4426.38					
7/30/19	112.53	4418.85					
1/30/20	105.28	4426.10					
7/30/20	108.14	4423.24					
2/9/21	107.95	4423.43					
7/28/21	109.64	4421.74					
1/26/22	108.39	4422.99					
7/28/22	111.65	4419.73					

TABLE 4
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-03	527586	598070.538	3468694.259	4518.28	10/7/09	85.62	4432.66
					3/16/10	83.51	4434.77
					5/25/10	84.49	4433.79
					8/25/10	85.70	4432.58
					3/17/11	86.76	4431.52
					6/17/11	88.76	4429.52
					12/7/11	89.30	4428.98
					3/6/12	89.24	4429.04
					12/14/12	90.83	4427.45
					3/22/13	88.65	4429.63
					6/24/13	91.70	4426.58
					9/23/13	86.88	4431.40
					12/19/13	89.11	4429.17
					3/24/14	89.48	4428.80
					6/23/14	90.77	4427.51
					9/23/14	89.10	4429.18
					12/22/14	86.80	4431.48
					3/23/15	87.68	4430.60
					6/22/15	89.40	4428.88
					9/28/15	90.65	4427.63
					12/21/15	90.97	4427.31
					3/21/16	91.30	4426.98
					6/20/16	92.16	4426.12
					9/29/16	89.50	4428.78
3/16/17	89.81	4428.47					
9/30/17	90.71	4427.57					
3/26/18	91.28	4427.00					
9/24/18	92.22	4426.06					
3/18/19	91.01	4427.27					
7/30/19	93.64	4424.64					
1/30/20	90.87	4427.41					
7/30/20	93.51	4424.77					
2/9/21	93.94	4424.34					
7/28/21	94.33	4423.95					
1/26/22	93.66	4424.62					
NWC-02	562944	600177.435	3467474.673	4600.44	10/27/08	160.51	4439.93
					4/29/09 ³	160.5	4439.94
					9/10/09 ³	155	4445.44
					4/20/10 ³	131	4469.44
					3/1/13 ³	131	4469.44
					2/12/15	165.02	4435.42
					7/30/15	166.36	4434.08
					10/6/15	165.92	4434.52
					1/12/16	166.36	4434.08
					7/26/16	167.43	4433.01
					1/26/17	167.49	4432.95
					7/18/17	168.60	4431.84
					1/16/18	168.50	4431.94
					7/18/18	169.35	4431.09
					1/7/19	170.50	4429.94
					7/9/19	170.59	4429.85
					1/16/20	171.98	4428.46
7/22/20	171.19	4429.25					
1/12/21	172.33	4428.11					
7/22/21	173.15	4427.29					
2/1/22	173.42	4427.02					
NWC-03	203321	601153.857	3468350.838	4574.99	11/3/08	131.48	4443.51
					4/29/09 ³	130	4444.99
					9/10/09 ³	126	4448.99
					10/9/09 ³	125	4449.99

TABLE 4
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-03 CAP	627684	601151.704	3468343.653	4572.82	2/2/09	130.03	4442.79
					4/23/09	130.62	4442.20
					7/21/09	131.26	4441.56
					10/21/09	131.60	4441.22
					2/3/10	131.34	4441.48
					4/21/10	131.86	4440.96
					7/20/10	131.50	4441.32
					1/18/11	132.91	4439.91
					7/15/11	134.42	4438.40
					10/13/11	134.73	4438.09
					1/31/12	134.50	4438.32
					4/25/12	135.09	4437.73
					7/18/12	135.73	4437.09
					10/10/12	135.97	4436.85
					1/10/13	135.60	4437.22
					4/17/13	136.32	4436.50
					7/12/13	136.78	4436.04
					10/10/13	136.78	4436.04
					1/13/14	136.43	4436.39
					4/7/14	136.93	4435.89
7/10/14	137.30	4435.52					
2/12/15	136.27	4436.55					
7/30/15	136.88	4435.94					
9/29/16	130.38	4442.44					
1/26/17	128.41	4444.41					
7/18/17	130.48	4442.34					
1/16/18	121.55	4451.27					
2/23/18	124.44	4448.38					
7/18/18	119.39	4453.43					
NWC-04	551849	605829.808	3469071.959	4690.77	12/2/08	352.11	4338.66
					4/29/09 ³	328	4362.77
					9/10/09 ³	324	4366.77
					4/2010 ³	216	4474.77
					3/1/13 ³	216	4474.77
NWC-06	575700	599822.821	3467749.954	4592.50	4/29/09 ³	156	4436.50
					9/10/09 ³	155	4437.50
					10/9/09 ³	148	4444.50
					4/2010 ³	140	4452.50
					3/1/13 ³	140	4452.50
					7/30/15	160.95	4431.55
					10/6/15	160.48	4432.02
					1/12/16	168.81	4423.69
					7/26/16	167.73	4424.77
					1/26/17	162.26	4430.24
					7/18/17	162.80	4429.70
					1/16/18	162.78	4429.72
					7/18/18	163.77	4428.73
					1/7/19	164.68	4427.82
					7/9/19	165.28	4427.22
					1/16/20	165.12	4427.38
					7/22/20	165.81	4426.69
1/12/21	166.51	4425.99					
7/22/21	167.26	4425.24					
2/1/22	167.67	4424.83					
7/14/22	175.62	4416.88					

TABLE 4
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	1/13/16	145.84	4431.08
					1/15/18	148.47	4428.45
					7/13/18	150.28	4426.64
					1/14/19	150.75	4426.17
					7/8/19	151.52	4425.40
					1/17/20	151.52	4425.40
					8/5/20	152.38	4424.54
					1/8/21	152.98	4423.94
					7/29/21	153.85	4423.07
1/26/22	153.97	4422.95					
7/12/22	153.29	4423.63					
OSBORN	643436	607031.823	3470270.548	4711.95	5/13/08	68.65	4643.30
					8/5/08	69.53	4642.42
					10/16/08	69.83	4642.12
					1/20/09	69.23	4642.72
					4/7/09	69.60	4642.35
					7/8/09	96.61	4615.34
					10/5/09	75.09	4636.86
					1/21/10	75.37	4636.58
					4/19/10	81.59	4630.36
					7/12/10	83.00	4628.95
					7/12/11	74.60	4637.35
					2/3/12	74.57	4637.38
7/9/12	74.63	4637.32					
PANAGAKOS	35-76413	605304.234	3469323.140	4691.40	1/22/09	155.28	4536.12
					4/9/09	156.15	4535.25
					7/9/09	161.61	4529.79
					10/6/09	167.20	4524.20
					1/21/10	166.92	4524.48
					4/20/10	167.11	4524.29
					7/20/10	171.78	4519.62
					10/18/10	176.39	4515.01
					7/14/11	173.78	4517.62
					8/25/11	172.89	4518.51
					2/6/12	169.09	4522.31
					2/29/12	169.32	4522.08
					3/15/12	169.64	4521.76
					4/12/12	168.85	4522.55
					7/9/12	170.38	4521.02
					11/27/12	169.82	4521.58
					1/18/13	169.12	4522.28
					2/6/13	168.76	4522.64
					4/9/13	167.79	4523.61
					7/10/13	168.51	4522.89
					10/15/13	164.49	4526.91
					1/10/14	160.32	4531.08
					4/16/14	158.75	4532.65
					7/17/14	159.69	4531.71
					10/16/14	159.28	4532.12
					1/26/15	158.02	4533.38
					7/27/15	160.04	4531.36
					1/11/16	160.50	4530.90
					2/24/17	162.64	4528.76
					7/17/17	160.37	4531.03
1/18/18	160.12	4531.28					
7/30/18	161.94	4529.46					
1/15/19	167.97	4523.43					
7/8/19	166.86	4524.54					
1/14/20	166.69	4524.71					
8/13/20	163.46	4527.94					
1/11/21	162.45	4528.95					
7/22/21	162.18	4529.22					
1/31/22	164.40	4527.00					
7/7/22	168.09	4523.31					

TABLE 4
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)
PARRA	576415	602170.716	3471263.549	4727.21	5/15/08	279.78	4447.43
					8/18/08	280.06	4447.15
					11/3/08	280.39	4446.82
					2/13/09	280.75	4446.46
					4/28/09	280.88	4446.33
					7/20/09	280.99	4446.22
PIONKE 395	613395	601045.471	3468960.981	4592.13	7/17/08	149.88	4442.25
					11/3/08	150.99	4441.14
					2/25/09	149.68	4442.45
					4/14/09	150.01	4442.12
					7/13/09	150.47	4441.66
					10/7/09	150.96	4441.17
					3/8/10	151.11	4441.02
					4/26/10	151.32	4440.81
					7/15/10	151.90	4440.23
					10/18/10	152.38	4439.75
					1/19/11	152.38	4439.75
					4/8/11	153.04	4439.09
					7/12/11	153.57	4438.56
					10/11/11	153.87	4438.26
					2/1/12	153.92	4438.21
					4/12/12	154.35	4437.78
					7/11/12	154.97	4437.16
					10/17/12	155.31	4436.82
					1/9/13	155.25	4436.88
					4/17/13	155.76	4436.37
					7/18/13	156.09	4436.04
					10/17/13	156.39	4435.74
					2/5/14	155.84	4436.29
					4/9/14	156.21	4435.92
					7/11/14	156.66	4435.47
					10/7/14	156.47	4435.66
					2/2/15	155.81	4436.32
					5/18/15	155.97	4436.16
					7/22/15	156.29	4435.84
					10/8/15	156.03	4436.10
1/11/16	155.64	4436.49					
7/26/16	156.55	4435.58					
1/16/17	156.92	4435.21					
9/30/17	157.63	4434.50					
1/15/18	157.42	4434.71					
7/24/18	158.37	4433.76					
1/7/19	158.89	4433.24					
7/11/19	159.32	4432.81					
1/8/20	159.43	4432.70					
8/12/20	159.73	4432.40					
1/5/21	160.22	4431.91					
7/23/21	160.98	4431.15					
1/26/22	161.55	4430.58					
7/12/22	161.90	4430.23					

TABLE 4
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 517	221517	600909.967	3468866.654	4587.20792	9/18/12	152.00	4435.21
					10/11/12	152.15	4435.06
					1/9/13	152.23	4434.98
					4/17/13	152.58	4434.63
					7/16/13	153.11	4434.10
					10/17/13	153.27	4433.94
					3/5/14	153.24	4433.97
					4/9/14	153.07	4434.14
					7/11/14	153.56	4433.65
					10/7/14	153.31	4433.90
					5/18/15	152.76	4434.45
					7/22/15	153.12	4434.09
					7/26/16	153.32	4433.89
					7/18/17	154.44	4432.77
7/24/18	155.18	4432.03					
7/11/19	156.16	4431.05					
8/12/20	156.55	4430.66					
7/23/21	157.77	4429.44					
7/12/22	158.65	4428.56					
POOL	509518	599683.603	3470013.823	4639.09	2/20/08	204.22	4434.87
					5/19/08	204.72	4434.37
					7/31/08	205.56	4433.53
					10/21/08	205.06	4434.03
					2/13/09	204.74	4434.35
					4/21/09	204.87	4434.22
					7/20/09	205.69	4433.40
					10/20/09	206.06	4433.03
					2/24/10	205.59	4433.50
					4/22/10	205.48	4433.61
					7/14/10	206.58	4432.51
					10/20/10	206.74	4432.35
					3/21/16	209.98	4429.11
					8/1/18	212.45	4426.64
7/10/19	212.88	4426.21					
8/10/20	213.56	4425.53					
7/20/21	214.78	4424.31					
POWER 639	222639	602146.123	3471373.655	4734.38	1/16/14	294.07	4440.31
					2/5/14	294.07	4440.31
					3/5/14	294.20	4440.18
					4/15/14	294.14	4440.24
					5/13/14	294.25	4440.13
					6/23/14	294.28	4440.10
					7/17/14	294.32	4440.06
					8/11/14	294.44	4439.94
					9/9/14	294.47	4439.91
					10/8/14	294.49	4439.89
					1/27/15	294.24	4440.14
					3/10/15	294.19	4440.19
					4/28/15	294.17	4440.21
					5/14/15	249.23	4485.15
					6/11/15	294.29	4440.09
					7/30/15	294.38	4440.00
					1/14/16	294.65	4439.73
					7/27/16	294.81	4439.57
					1/26/17	295.05	4439.33
					7/12/17	295.25	4439.13
					1/10/18	295.47	4438.91
					7/25/18	295.75	4438.63
1/14/19	295.96	4438.42					
7/12/19	296.56	4437.82					
1/15/20	296.68	4437.70					
8/13/20	296.98	4437.40					
1/13/21	297.41	4436.97					
7/19/21	297.92	4436.46					
1/31/22	298.54	4435.84					
7/7/22	299.06	4435.32					

TABLE 4
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	10/27/08	159.45	4437.16
					1/29/09	158.74	4437.87
					4/16/09	158.66	4437.95
					7/10/09	159.64	4436.97
					10/6/09	160.36	4436.25
					1/25/10	160.10	4436.51
					4/21/10	159.96	4436.65
					7/21/10	161.05	4435.56
					10/19/10	161.23	4435.38
					1/18/11	161.22	4435.39
					4/11/11	161.48	4435.13
					7/18/11	162.39	4434.22
					10/12/11	163.04	4433.57
					4/10/12	163.22	4433.39
					7/6/12	163.85	4432.76
					10/8/12	164.38	4432.23
					4/19/13	164.96	4431.65
					1/13/14	165.26	4431.35
					4/14/14	164.85	4431.76
					2/2/15	164.33	4432.28
					5/28/15	164.39	4432.22
					7/21/15	164.65	4431.96
					10/8/15	164.72	4431.89
					1/14/16	164.15	4432.46
					7/14/16	165.52	4431.09
					7/26/17	166.81	4429.80
					1/15/18	167.59	4429.02
					7/25/18	167.71	4428.90
1/14/19	168.26	4428.35					
7/9/19	189.06	4407.55					
7/30/19	168.94	4427.67					
1/13/20	169.12	4427.49					
8/6/20	169.88	4426.73					
1/8/21	170.56	4426.05					
7/29/21	171.34	4425.27					
1/27/22	171.82	4424.79					
7/7/22	171.94	4424.67					

TABLE 4
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	607083.422	3469195.147	4647.91	2/15/08	40.85	4607.06
					5/13/08	43.82	4604.09
					7/29/08	45.25	4602.66
					10/22/08	44.54	4603.37
					1/20/09	44.31	4603.60
					4/8/09	44.68	4603.23
					7/9/09	48.99	4598.92
					10/7/09	49.87	4598.04
					1/26/10	47.61	4600.30
					4/20/10	49.78	4598.13
					7/14/10	51.36	4596.55
					10/20/10	49.85	4598.06
					1/17/11	50.51	4597.40
					4/5/11	51.84	4596.07
					7/11/11	55.74	4592.17
					10/12/11	53.63	4594.28
					1/31/12	53.21	4594.70
					4/11/12	54.50	4593.41
					7/6/12	58.75	4589.16
					10/3/12	60.98	4586.93
					1/17/13	56.57	4591.34
					4/18/13	56.32	4591.59
					7/9/13	60.30	4587.61
					10/15/13	44.33	4603.58
					1/14/14	34.50	4613.41
					4/8/14	36.72	4611.19
7/8/14	43.38	4604.53					
10/22/14	44.65	4603.26					
8/4/15	48.31	4599.60					
7/12/16	53.50	4594.41					
7/26/17	57.61	4590.30					
7/31/18	54.96	4592.95					
7/19/19	55.48	4592.43					
8/13/20	60.56	4587.35					
7/23/21	48.66	4599.25					
7/6/22	52.28	4595.63					

TABLE 4
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)
ROGERS 596	573596	601001.503	3468491.639	4577.35	11/11/09	135.46	4441.89
					2/25/10	135.89	4441.46
					4/22/10	135.62	4441.73
					7/16/10	136.63	4440.72
					10/19/10	136.61	4440.74
					1/20/11	134.21	4443.14
					4/8/11	137.68	4439.67
					7/14/11	138.09	4439.26
					10/12/11	138.09	4439.26
					1/30/12	137.91	4439.44
					4/23/12	138.61	4438.74
					7/13/12	139.65	4437.70
					10/10/12	139.55	4437.80
					1/15/13	139.23	4438.12
					4/15/13	139.97	4437.38
					7/15/13	139.94	4437.41
					10/16/13	140.50	4436.85
					1/9/14	140.12	4437.23
					4/11/14	140.56	4436.79
					7/18/14	140.64	4436.71
1/12/16	139.57	4437.78					
9/30/17	141.86	4435.49					
1/18/18	141.88	4435.47					
7/26/18	142.57	4434.78					
1/14/19	142.75	4434.60					
7/22/19	143.54	4433.81					
1/22/20	143.75	4433.60					
7/22/21	145.37	4431.98					
2/1/22	145.57	4431.78					
7/8/22	146.20	4431.15					
ROGERS 750 ¹	641750	600977.690	3468417.386	4579.02	2/7/08	129.85	4449.17
					7/29/08	131.86	4447.16
					10/22/08	132.08	4446.94
					2/10/09	130.62	4448.40
					4/29/09	131.33	4447.69
					8/3/09	135.07	4443.95
ROGERS 803	641803	601003.273	3468480.391	4576.16	9/30/17	138.83	4437.33
					1/18/18	138.90	4437.26
					7/26/18	139.62	4436.54
					1/14/19	139.92	4436.24
					7/22/19	140.39	4435.77
					1/22/20	140.60	4435.56
8/11/20	140.82	4435.34					

TABLE 4
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)
ROGERS E	216018	600449.648	3467636.029	4590.66	7/17/08	149.65	4441.01
					11/3/08	150.15	4440.51
					2/10/09	149.02	4441.64
					4/16/09	149.53	4441.13
					7/13/09	150.31	4440.35
					10/6/09	150.76	4439.90
					1/25/10	150.64	4440.02
					4/21/10	150.97	4439.69
					8/25/10	151.15	4439.51
					10/19/10	151.57	4439.09
					10/13/11	153.79	4436.87
					1/30/12	153.56	4437.10
					4/10/12	154.13	4436.53
					7/17/12	155.10	4435.56
					1/17/13	154.56	4436.10
					4/18/13	155.66	4435.00
					7/17/13	155.71	4434.95
					4/14/14	155.97	4434.69
					7/30/15	155.91	4434.75
					10/8/15	155.55	4435.11
7/26/17	157.46	4433.20					
2/23/18	157.28	4433.38					
7/13/18	158.53	4432.13					
1/11/19	159.10	4431.56					
7/12/19	159.66	4431.00					
1/21/20	159.76	4430.90					
8/7/20	160.14	4430.52					
1/12/21	161.12	4429.54					
7/14/21	161.68	4428.98					
2/1/22	162.24	4428.42					
7/11/22	162.58	4428.08					
RUIZ	531770	602857.357	3471424.219	4735.18	2/5/08	293.29	4441.89
					5/15/08	293.57	4441.61
					7/30/08	293.86	4441.32
					10/20/08	294.18	4441.00
					2/12/09	294.62	4440.56
					4/21/09	294.66	4440.52
					8/3/09	294.98	4440.20
					10/28/09	295.33	4439.85
					2/1/10	295.70	4439.48
					4/26/10	295.96	4439.22
					4/8/11	297.20	4437.98
					4/13/12	298.47	4436.71
					1/11/13	299.39	4435.79
					4/11/13	299.72	4435.46
					7/25/13	300.06	4435.12
					10/17/13	300.07	4435.11
					1/8/14	300.19	4434.99
					4/15/14	300.31	4434.87
					10/21/14	300.38	4434.80
					1/27/15	299.76	4435.42
7/30/15	299.74	4435.44					
1/12/16	300.20	4434.98					
7/24/18	301.45	4433.73					
1/15/19	301.74	4433.44					
7/10/19	302.08	4433.10					
RUIZ 146	232146	602851.840	3471407.239	4731.23	8/12/20	301.12	4430.11
					1/12/21	301.48	4429.75
					7/21/21	301.91	4429.32
					2/1/22	302.53	4428.70
					7/12/22	303.12	4428.11

TABLE 4
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)
SCHWARTZ	210865	600811.014	3468269.622	4564.49	2/8/08	121.80	4442.69
					5/19/08	123.49	4441.00
					7/29/08	122.64	4441.85
					10/22/08	123.39	4441.10
					1/29/09	122.87	4441.62
					4/17/09	123.53	4440.96
					7/10/09	124.15	4440.34
					10/6/09	124.55	4439.94
					1/22/10	124.32	4440.17
					4/21/10	124.65	4439.84
					7/21/10	125.80	4438.69
					10/19/10	126.30	4438.19
					1/17/11	125.35	4439.14
					4/11/11	127.50	4436.99
					7/18/11	127.67	4436.82
					10/12/11	127.51	4436.98
					2/6/12	127.34	4437.15
					4/10/12	127.78	4436.71
					7/16/12	128.84	4435.65
					10/17/12	128.98	4435.51
					3/13/13	128.81	4435.68
					5/14/13	129.60	4434.89
					7/15/13	129.05	4435.44
					10/14/13	130.15	4434.34
					4/9/14	129.77	4434.72
					7/18/14	129.81	4434.68
					10/22/14	129.66	4434.83
					2/3/15	128.66	4435.83
					5/18/15	129.30	4435.19
					8/4/15	129.51	4434.98
10/8/15	129.34	4435.15					
1/14/16	128.32	4436.17					
7/27/16	130.01	4434.48					
1/24/17	129.86	4434.63					
7/11/17	131.21	4433.28					
1/9/18	130.46	4434.03					
7/11/18	131.96	4432.53					
1/9/19	131.50	4432.99					
1/22/20	132.54	4431.95					
7/22/20	132.76	4431.73					
1/8/21	133.62	4430.87					
7/20/21	134.17	4430.32					
2/1/22	134.83	4429.66					
7/13/22	135.16	4429.33					

TABLE 4
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	606981.766	3469072.799	4651.22	5/13/08	44.94	4606.28
					8/5/08	46.61	4604.61
					10/16/08	46.60	4604.62
					1/21/09	47.19	4604.03
					4/8/09	48.45	4602.77
					7/7/09	49.41	4601.81
					10/7/09	50.33	4600.89
					1/26/10	51.13	4600.09
					4/20/10	51.24	4599.98
					7/14/10	51.91	4599.31
					1/18/11	52.98	4598.24
					7/11/11	54.44	4596.78
					1/31/12	55.65	4595.57
					7/9/12	10.69	4640.53
					1/18/13	10.50	4640.72
					7/10/13	58.16	4593.06
					1/14/14	45.51	4605.71
					7/8/14	45.39	4605.83
					1/26/15	47.91	4603.31
					7/24/15	49.71	4601.51
					1/11/16	50.88	4600.34
					7/12/16	52.64	4598.58
					1/17/17	53.09	4598.13
					7/14/17	54.15	4597.07
1/15/18	55.74	4595.48					
7/30/18	56.02	4595.20					
1/15/19	55.85	4595.37					
7/11/19	56.20	4595.02					
1/14/20	54.02	4597.20					
7/20/20	53.58	4597.64					
1/13/21	54.94	4596.28					
7/21/21	54.09	4597.13					
1/28/22	54.90	4596.32					
7/6/22	55.80	4595.42					
SUNBELT	201531	605998.250	3471735.149	4806.52	2/6/08	352.10	4454.42
					5/15/08	358.97	4447.55
					8/5/08	Dry	<4426
					10/16/08	347.00	4459.52
					1/21/09	344.78	4461.74
					4/10/09	349.64	4456.88
					7/8/09	356.99	4449.53
					10/5/09	Dry	<4426
					1/21/10	Dry	<4426
					4/19/10	Dry	<4426
					7/12/10	Dry	<4426
					1/19/11	Dry	<4426
					8/25/11	Dry	<4426
					2/3/12	Dry	<4426
					7/9/12	Dry	<4426
					9/13/12	Dry	<4426
					1/17/13	Dry	<4426
7/9/13	Dry	<4426					
1/10/14	Dry	<4426					
7/8/14	Dry	<4426					

TABLE 4
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)
SWAN	NR	607378.547	3470648.298	4716.59	2/13/08	26.50	4690.09
					5/14/08	30.69	4685.90
					7/24/08	32.06	4684.53
					10/16/08	27.53	4689.06
					1/20/09	29.77	4686.82
					4/7/09	31.47	4685.12
					7/8/09	33.61	4682.98
					10/5/09	35.12	4681.47
					1/21/10	36.64	4679.95
					4/21/10	38.06	4678.53
					7/19/10	39.67	4676.92
					1/18/11	35.06	4681.53
					7/12/11	39.32	4677.27
					2/3/12	37.86	4678.73
					7/10/12	40.39	4676.20
					1/9/13	38.51	4678.08
					7/8/13	42.26	4674.33
1/10/14	29.43	4687.16					
7/7/14	33.68	4682.91					
7/20/15	33.08	4683.51					
7/11/16	35.60	4680.99					
7/27/17	38.08	4678.51					
7/31/18	42.14	4674.45					
TERRY 101	234101	599642.742	3468084.786	4562.55	9/3/21	153.21	4409.34
THOMPSON 151	612151	599543.561	3467387.294	4597.62	8/9/13	167.86	4429.76
					10/10/13	167.68	4429.94
					1/16/14	167.19	4430.43
					4/14/14	166.98	4430.64
					7/21/14	167.78	4429.84
					10/22/14	167.56	4430.06
					2/2/15	166.56	4431.06
					5/19/15	166.51	4431.11
8/3/15	167.09	4430.53					
THOMPSON 341	218341	599532.241	3467396.849	4596.73	7/28/17	168.34	4428.39
					1/16/18	168.22	4428.51
					7/26/18	169.23	4427.50
					1/11/19	169.81	4426.92
					7/10/19	170.29	4426.44
					1/15/20	170.62	4426.11
					8/12/20	171.37	4425.36
					1/8/21	172.08	4424.65
					7/29/21	172.82	4423.91
1/31/22	173.19	4423.54					
7/7/22	173.44	4423.29					

TABLE 4
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	3/4/08	346.62	4461.81
					5/23/08	346.16	4462.27
					8/15/08	353.91	4454.52
					10/30/08	349.45	4458.98
					2/24/09	348.64	4459.79
					5/6/09	349.38	4459.05
					8/12/09	349.13	4459.30
					11/4/09	348.97	4459.46
					3/10/10	348.19	4460.24
					4/6/10	353.86	4454.57
					7/6/10	349.20	4459.23
					2/10/11	347.60	4460.83
					7/13/11	348.14	4460.29
					2/2/12	346.94	4461.49
					8/13/12	344.53	4463.90
					2/14/13	343.50	4464.93
					8/27/13	343.84	4464.59
					2/18/14	341.47	4466.96
					8/12/14	338.50	4469.93
					2/5/15	336.02	4472.41
					9/14/15	334.23	4474.20
					3/16/16	333.52	4474.91
					8/17/16	333.90	4474.53
3/7/17	335.30	4473.13					
8/1/17	336.32	4472.11					
2/1/18	337.14	4471.29					
7/26/18	337.17	4471.26					
2/11/19	337.53	4470.90					
8/5/19	338.84	4469.59					
2/20/20	338.42	4470.01					
7/20/20	337.15	4471.28					
3/17/21	336.28	4472.15					
7/13/21	336.80	4471.63					
3/10/22	338.70	4469.73					
7/26/22	339.34	4469.09					
TM-03	522575	606366.130	3473711.046	4897.85	3/12/08	127.14	4770.71
					5/20/08	127.40	4770.45
					8/6/08	128.02	4769.83
					11/12/08	128.00	4769.85
					2/26/09	126.94	4770.91
					5/13/09	113.86	4783.99
					8/18/09	128.80	4769.05
					11/10/09	125.38	4772.47
					3/2/10	128.02	4769.83
					4/14/10	130.56	4767.29
					7/7/10	131.25	4766.60
2/1/12	135.04	4762.81					

TABLE 4
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	2/26/08	158.78	4549.10
					5/20/08	158.76	4549.12
					8/4/08	158.80	4549.08
					10/29/08	158.85	4549.03
					2/16/09	159.28	4548.60
					5/13/09	158.81	4549.07
					8/18/09	158.91	4548.97
					11/12/09	158.96	4548.92
					3/8/10	158.99	4548.89
					4/14/10	159.02	4548.86
					7/2/10	159.13	4548.75
					7/21/11	159.88	4548.00
					7/9/12	161.40	4546.48
					2/14/13	161.05	4546.83
					8/19/13	161.30	4546.58
					7/21/14	162.60	4545.28
					2/5/15	162.36	4545.52
					9/10/15	162.94	4544.94
					3/16/16	162.14	4545.74
					9/21/16	163.08	4544.80
3/7/17	162.83	4545.05					
7/26/17	163.47	4544.41					
2/5/18	163.46	4544.42					
7/16/18	163.96	4543.92					
1/29/19	162.32	4545.56					
7/31/19	164.23	4543.65					
2/20/20	163.15	4544.73					
8/10/20	166.27	4541.61					
3/15/21	164.10	4543.78					
7/21/21	164.61	4543.27					
3/10/22	163.86	4544.02					
9/7/22	163.16	4544.72					
TM-07	522576	603007.461	3471919.441	4769.20	3/17/21	338.20	4431.00
					8/16/21	338.58	4430.62
					2/1/22	338.91	4430.29
					8/1/22	339.74	4429.46
TM-10 USBP	522696	601586.268	3471816.397	4741.18	3/15/12	279.30	4461.88
					4/24/12	279.03	4462.15
					9/13/12	278.30	4462.88
					10/19/12	277.45	4463.73
					3/7/13	276.55	4464.63
					4/17/13	276.42	4464.76
					7/23/13	275.99	4465.19
					11/6/13	254.20	4486.98
					1/15/14	262.00	4479.18
					5/15/14	269.39	4471.79
					7/15/14	271.03	4470.15
					10/16/14	235.11	4506.07
					1/28/15	252.47	4488.71
					7/24/15	264.53	4476.65
					2/2/16	262.66	4478.52
					7/13/16	269.35	4471.83
					1/27/17	259.58	4481.60
					7/17/17	267.41	4473.77
					1/8/18	255.19	4485.99
					7/9/18	266.18	4475.00
1/8/19	247.36	4493.82					
7/16/19	259.23	4481.95					
1/6/20	239.32	4501.86					
8/3/20	256.07	4485.11					
1/5/21	261.10	4480.08					
7/12/21	267.17	4474.01					
1/24/22	258.46	4482.72					
7/19/22	267.02	4474.16					

TABLE 4
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	599618.715	3471425.631	4729.25	3/20/17	300.54	4428.71
					8/1/17	300.76	4428.49
					7/18/18	301.32	4427.93
					8/19/19	301.92	4427.33
					8/24/20	302.43	4426.82
					7/12/21	303.14	4426.11
					7/25/22	303.95	4425.30
TM-16	522578	605588.075	3469842.199	4717.71	3/5/08	81.00	4636.71
					5/22/08	81.24	4636.47
					8/6/08	81.65	4636.06
					11/5/08	81.75	4635.96
					2/26/09	81.88	4635.83
					5/13/09	82.01	4635.70
					8/19/09	82.37	4635.34
					11/10/09	82.83	4634.88
					3/2/10	83.09	4634.62
					4/14/10	83.22	4634.49
					7/2/10	83.51	4634.20
					7/14/11	80.41	4637.30
					7/9/12	72.55	4645.16
					8/15/13	61.42	4656.29
					8/4/14	62.55	4655.16
					2/5/15	58.80	4658.91
					9/9/15	60.06	4657.65
					3/16/16	60.43	4657.28
					8/25/16	59.24	4658.47
					3/7/17	61.08	4656.63
					7/12/17	62.59	4655.12
					2/1/18	60.18	4657.53
8/7/18	62.44	4655.27					
2/11/19	58.90	4658.81					
7/30/19	61.35	4656.36					
2/20/20	58.16	4659.55					
7/20/20	60.72	4656.99					
2/2/21	61.37	4656.34					
7/15/21	63.20	4654.51					
3/10/22	61.19	4656.52					
7/26/22	60.99	4656.72					
TM-19A	522581	602458.710	3469197.426	4645.87	3/6/08	199.85	4446.02
					5/22/08	199.50	4446.37
					8/6/08	199.19	4446.68
					11/18/08	199.46	4446.41
					3/3/09	199.81	4446.06
					4/22/09	200.57	4445.30
					8/12/09	201.46	4444.41
					11/4/09	201.16	4444.71
					3/10/10	201.34	4444.53
					4/9/10	201.55	4444.32
					7/7/10	202.35	4443.52
					2/14/11	203.00	4442.87
					7/15/11	203.30	4442.57
					2/2/12	203.84	4442.03
					7/11/12	204.75	4441.12
					10/16/12	205.02	4440.85
					2/15/13	205.30	4440.57
					9/4/13	205.73	4440.14
					2/12/14	207.47	4438.40
					7/21/14	210.56	4435.31
					9/10/15	206.48	4439.39
					8/18/16	207.24	4438.63
7/26/17	207.54	4438.33					
7/25/18	208.53	4437.34					
8/7/19	209.33	4436.54					
8/17/20	211.36	4434.51					
8/18/21	211.16	4434.71					
7/25/22	212.22	4433.65					

TABLE 4
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	3/5/08	211.04	4455.63
					5/22/08	210.98	4455.69
					8/6/08	211.55	4455.12
					11/6/08	207.05	4459.62
					2/18/09	212.31	4454.36
					5/7/09	212.37	4454.30
					8/18/09	212.77	4453.90
					11/3/09	213.05	4453.62
					2/24/10	213.36	4453.31
					4/19/10	213.51	4453.16
					7/2/10	213.52	4453.15
					7/12/11	214.62	4452.05
					7/11/12	216.10	4450.57
					2/12/13	216.55	4450.12
					8/28/13	217.38	4449.29
					7/21/14	218.33	4448.34
					2/4/15	218.87	4447.80
					9/10/15	219.31	4447.36
					3/16/16	219.55	4447.12
					8/18/16	219.89	4446.78
3/7/17	220.35	4446.32					
7/26/17	220.54	4446.13					
2/5/18	220.81	4445.86					
8/6/18	221.12	4445.55					
1/29/19	221.36	4445.31					
8/7/19	221.71	4444.96					
2/20/20	222.15	4444.52					
8/10/20	222.31	4444.36					
3/15/21	222.60	4444.07					
7/21/21	222.82	4443.85					
3/10/22	223.20	4443.47					
9/7/22	223.93	4442.74					
TVI 236	802236	600552.215	3467978.431	4561.98	5/7/08	123.30	4438.68
					7/15/08	121.55	4440.43
					10/15/08	122.35	4439.63
					2/11/09	121.28	4440.70
					4/17/09	122.73	4439.25
					7/21/09	123.96	4438.02
					10/19/09	123.88	4438.10
					2/2/10	122.26	4439.72
					4/23/10	122.70	4439.28
					7/15/10	125.08	4436.90
					7/15/11	127.23	4434.75
					7/16/12	127.81	4434.17
					10/9/12	128.45	4433.53
					7/18/13	127.38	4434.60
					7/16/14	129.24	4432.74
					2/2/15	126.81	4435.17
					5/19/15	128.38	4433.60
					7/30/15	128.31	4433.67
					10/7/15	127.26	4434.72
					1/12/16	126.49	4435.49
					7/20/16	128.90	4433.08
					9/26/16	128.26	4433.72
					1/27/17	128.57	4433.41
7/31/17	128.59	4433.39					
1/17/18	129.66	4432.32					
7/27/18	130.16	4431.82					
1/16/19	130.67	4431.31					
7/24/19	130.87	4431.11					
1/21/20	130.92	4431.06					
8/11/20	131.43	4430.55					
1/12/21	132.30	4429.68					
7/21/21	132.88	4429.10					
2/1/22	133.47	4428.51					
8/3/22	133.75	4428.23					

TABLE 4
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 713	567713	600729.095	3468412.946	4567.22	5/7/08	127.10	4440.12
					7/14/08	126.30	4440.92
					10/15/08	130.00	4437.22
					2/11/09	149.87	4417.35
					4/17/09	126.73	4440.49
					7/21/09	127.36	4439.86
					10/19/09	127.79	4439.43
					2/2/10	126.71	4440.51
					4/23/10	127.53	4439.69
					7/15/10	129.14	4438.08
					10/20/10	130.84	4436.38
					1/20/11	134.36	4432.86
					4/11/11	135.72	4431.50
					7/15/11	131.61	4435.61
					10/12/11	130.33	4436.89
					2/3/12	130.01	4437.21
					4/25/12	131.33	4435.89
					7/16/12	131.97	4435.25
					10/9/12	132.16	4435.06
					2/6/13	131.14	4436.08
					4/10/13	132.08	4435.14
					7/18/13	131.72	4435.50
					10/8/13	133.10	4434.12
					1/9/14	132.37	4434.85
					4/9/14	132.93	4434.29
					7/16/14	132.57	4434.65
					10/9/14	132.29	4434.93
					1/29/15	132.01	4435.21
					5/18/15	132.34	4434.88
					7/30/15	132.71	4434.51
10/7/15	132.00	4435.22					
1/12/16	131.34	4435.88					
7/14/16	133.11	4434.11					
1/27/17	132.88	4434.34					
7/13/17	134.08	4433.14					
1/10/18	134.24	4432.98					
7/12/18	134.83	4432.39					
1/10/19	134.87	4432.35					
7/18/19	135.59	4431.63					
3/23/20	135.43	4431.79					
8/6/20	135.81	4431.41					
1/7/21	136.57	4430.65					
7/15/21	137.15	4430.07					
1/26/22	137.84	4429.38					
8/1/22	138.07	4429.15					

TABLE 4
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	2/15/08	143.31	4443.58
					5/7/08	143.90	4442.99
					7/16/08	144.22	4442.67
					10/28/08	145.81	4441.08
					1/29/09	143.99	4442.90
					4/15/09	144.38	4442.51
					7/15/09	144.99	4441.90
					10/15/09	145.66	4441.23
					2/2/10	145.28	4441.61
					4/22/10	145.72	4441.17
					7/19/10	146.46	4440.43
					10/20/10	147.11	4439.78
					1/17/11	146.72	4440.17
					4/11/11	146.31	4440.58
					8/26/11	148.06	4438.83
					10/13/11	148.30	4438.59
					2/1/12	148.23	4438.66
					4/25/12	148.82	4438.07
					7/13/12	149.79	4437.10
					10/11/12	149.73	4437.16
					1/16/13	149.49	4437.40
					4/17/13	150.16	4436.73
					7/18/13	150.24	4436.65
					10/17/13	150.69	4436.20
					1/16/14	150.08	4436.81
					4/11/14	150.75	4436.14
					7/18/14	150.85	4436.04
					10/9/14	150.89	4436.00
					2/2/15	150.01	4436.88
					5/18/15	150.25	4436.64
8/4/15	150.72	4436.17					
10/8/15	150.47	4436.42					
1/12/16	151.01	4435.88					
7/26/16	150.95	4435.94					
1/16/17	151.31	4435.58					
7/24/17	151.59	4435.30					
1/12/18	152.06	4434.83					
7/16/18	152.74	4434.15					
1/14/19	153.39	4433.50					
7/23/19	153.77	4433.12					
1/16/20	154.08	4432.81					
7/23/20	154.23	4432.66					
1/11/21	154.86	4432.03					
7/26/21	155.57	4431.32					
1/28/22	156.25	4430.64					
7/13/22	156.48	4430.41					
WEISKOPF 897	220897	601096.780	3468647.358	4585.70	12/6/12	149.27	4436.43
					1/16/13	148.70	4437.00
					4/17/13	149.80	4435.90
					7/18/13	150.15	4435.55
					10/17/13	150.38	4435.32
					1/16/14	149.78	4435.92
					4/11/14	150.50	4435.20
					7/18/14	150.55	4435.15
					10/9/14	150.34	4435.36
					5/18/15	149.95	4435.75
					8/4/15	150.31	4435.39
					7/26/16	150.63	4435.07
					7/24/17	151.52	4434.18
					7/16/18	152.37	4433.33
					7/23/19	153.41	4432.29
7/23/20	154.84	4430.86					
7/26/21	155.25	4430.45					
7/13/22	156.16	4429.54					
WMD-2011-03M	913037	605360.830	3470671.273	4746.28	2/2/12	226.66	4519.62

TABLE 4
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	599678.880	3467998.486	4580.94	2/4/08	144.85	4436.09
					5/6/08	145.33	4435.61
					7/16/08	146.40	4434.54
					10/28/08	146.01	4434.93
					2/10/09	144.83	4436.11
					4/16/09	144.94	4436.00
					7/14/09	146.14	4434.80
					10/13/09	146.77	4434.17
					1/26/10	146.34	4434.60
					4/22/10	146.27	4434.67
					7/21/10	147.81	4433.13
					10/19/10	147.80	4433.14
					1/18/11	147.52	4433.42
					4/6/11	147.84	4433.10
					7/13/11	148.91	4432.03
					10/12/11	149.50	4431.44
					1/31/12	149.31	4431.63
					4/10/12	149.64	4431.30
					7/17/12	150.63	4430.31
					10/8/12	150.92	4430.02
					1/10/13	150.89	4430.05
					4/18/13	151.36	4429.58
					7/15/13	152.14	4428.80
					10/7/13	151.65	4429.29
					1/7/14	151.10	4429.84
					4/9/14	150.81	4430.13
					7/17/14	152.02	4428.92
					8/3/15	150.65	4430.29
					10/8/15	150.10	4430.84
					1/12/16	149.46	4431.48
7/15/16	151.25	4429.69					
1/27/17	152.14	4428.80					
7/24/17	152.63	4428.31					
1/16/18	152.03	4428.91					
7/24/18	153.67	4427.27					
1/11/19	154.15	4426.79					
7/16/19	154.82	4426.12					
1/17/20	154.93	4426.01					
8/11/20	155.71	4425.23					
1/12/21	156.33	4424.61					
7/27/21	157.15	4423.79					
1/28/22	157.46	4423.48					
7/14/22	157.74	4423.20					

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)

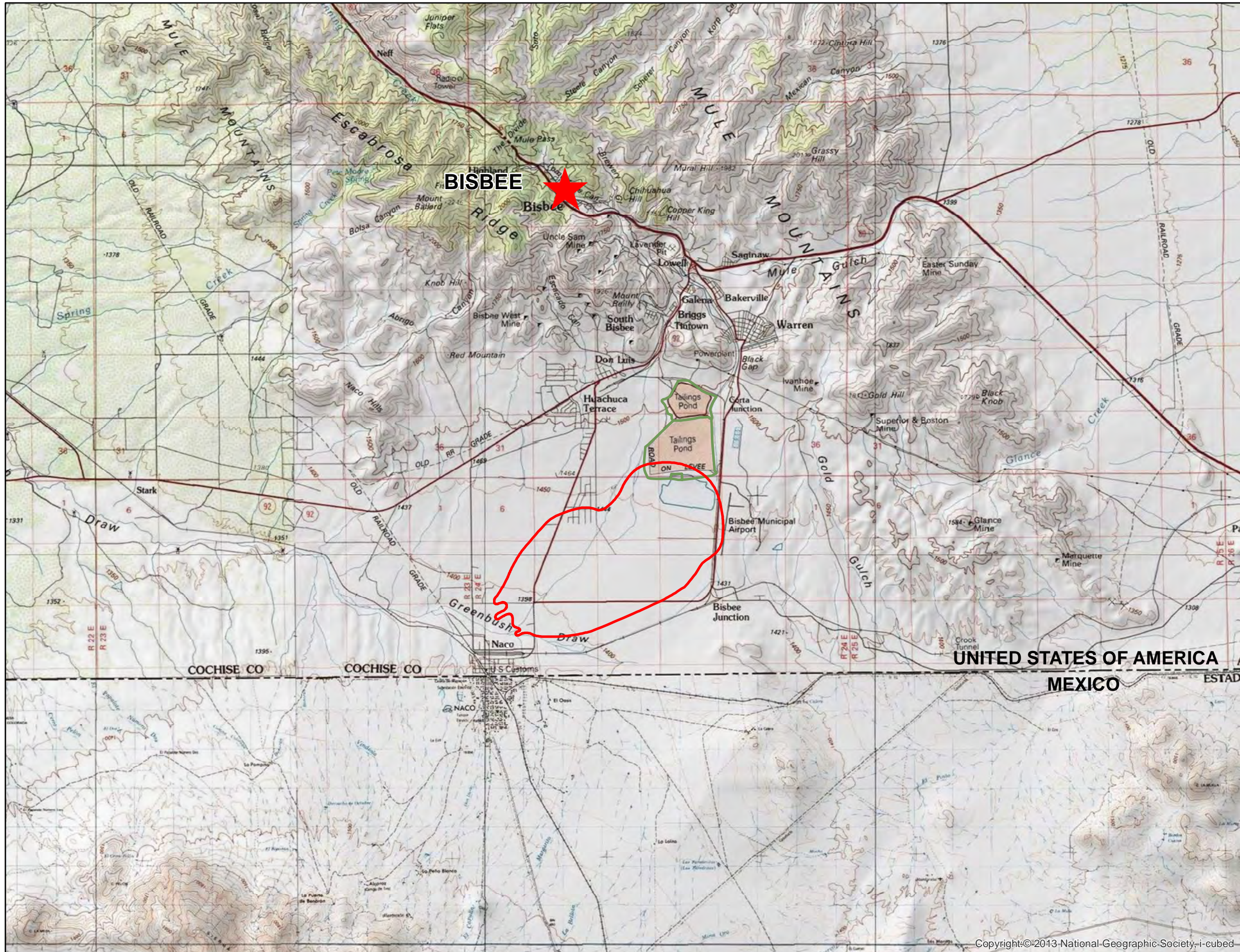
¹ Depth to water measurement provided by Arizona Water Company

² Preliminary data will be updated when well survey is conducted



³ Depth to water measurement provided by Naco Water Company

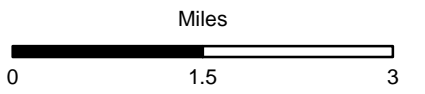
⁴ Well previously identified as ROGERS 803

FIGURES





Legend

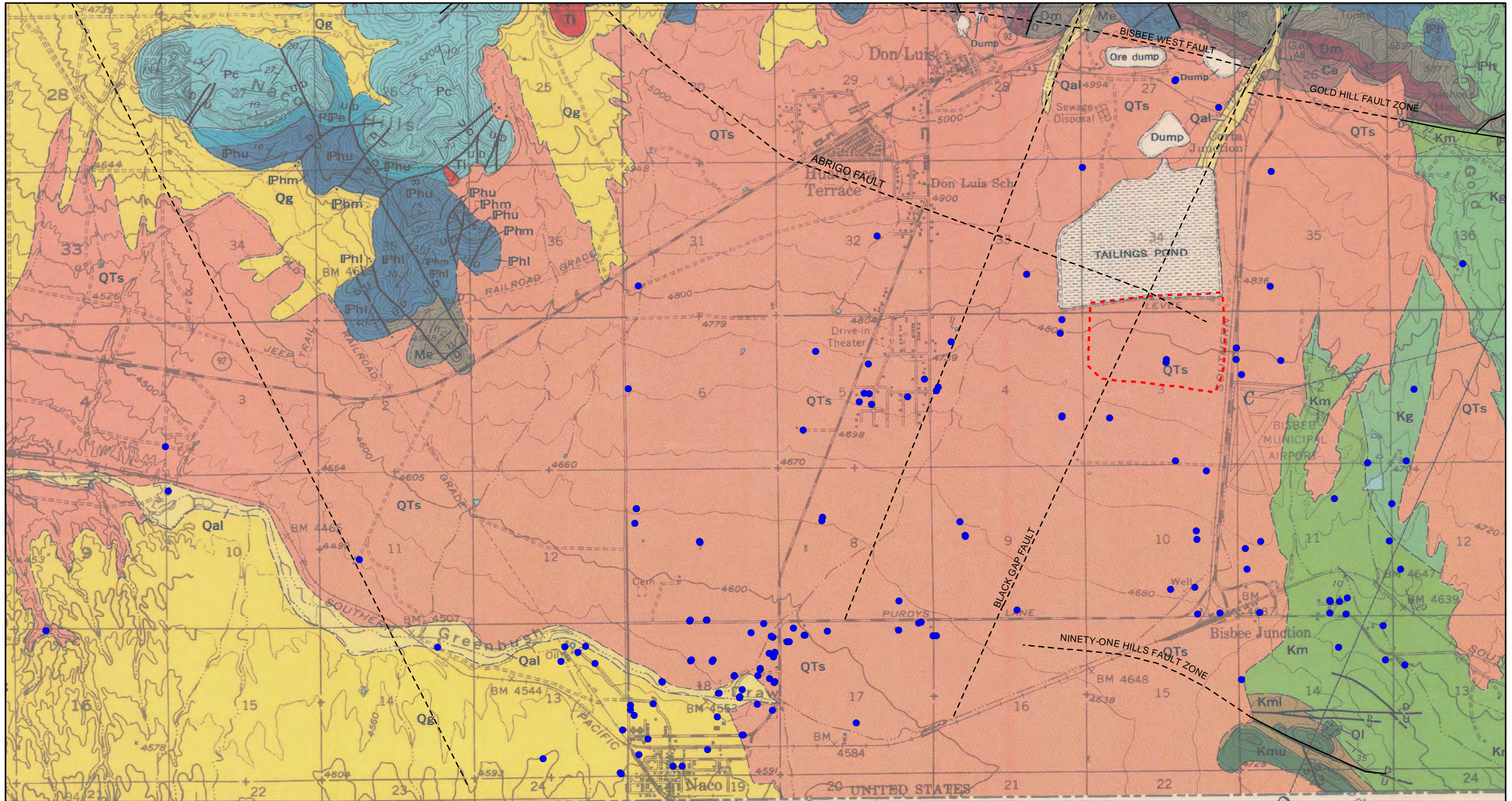
-  CTSA Facility
-  Estimated 250 mg/L Sulfate Concentration Contour for Third Quarter 2022



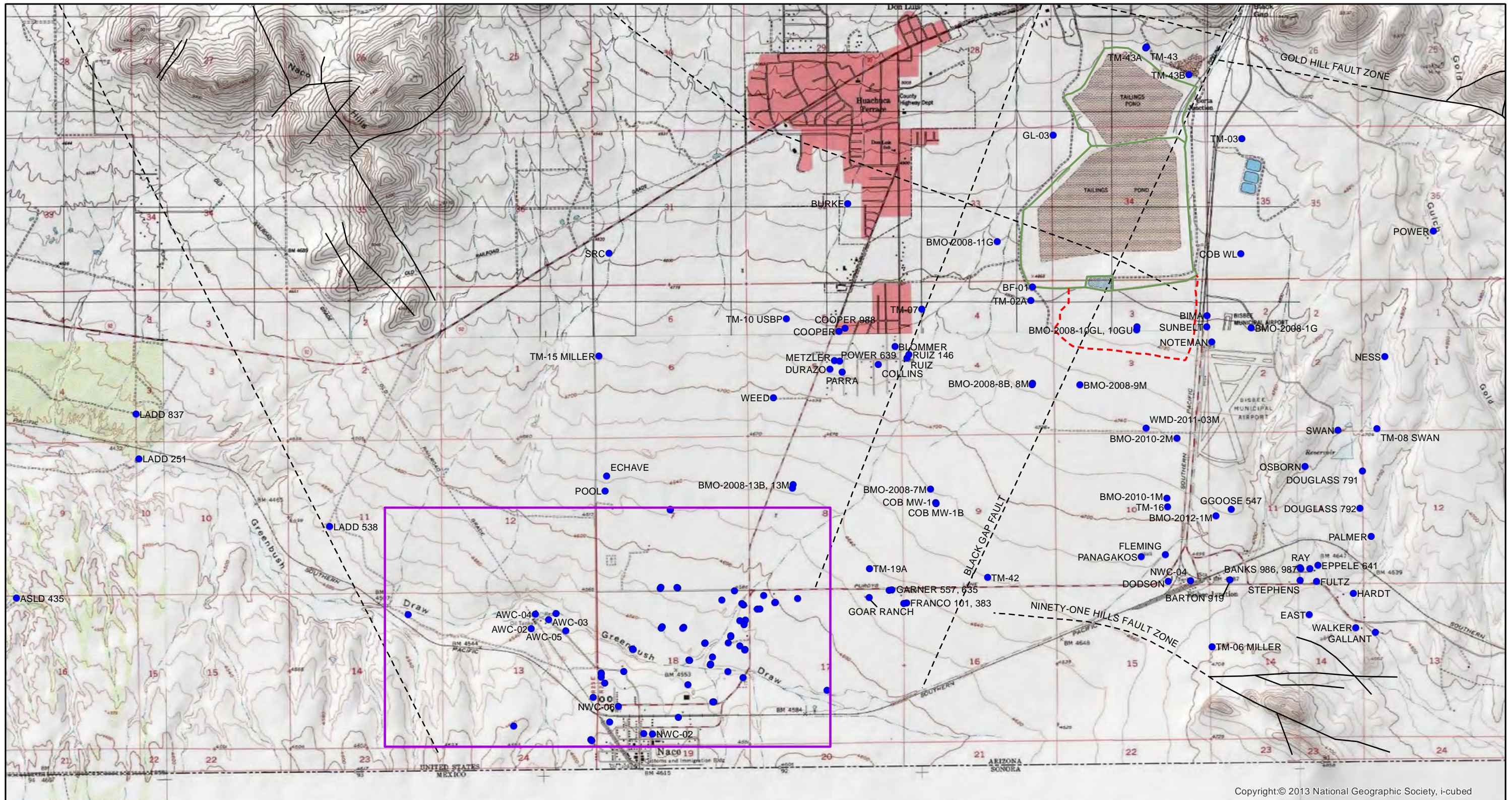
Notes:
 Projection: UTM Zone 12N NAD83

Date	1/25/2023	File ID	055038-580A
			

**FIGURE 1
 PROJECT LOCATION MAP**



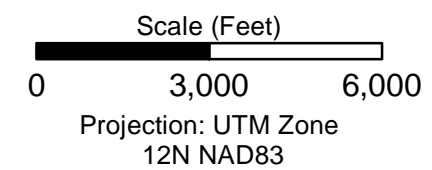
Legend <ul style="list-style-type: none"> ● Monitoring Location — Fault (dashed where inferred) Former Evaporation Ponds 	Basin Fill <ul style="list-style-type: none"> Qal - Quaternary Alluvium Qg - Quaternary Gravel QTs - Quaternary Tertiary sediment Ti - Tertiary Intrusive 	Bisbee Group <ul style="list-style-type: none"> Kc - Cintura Formation (not shown) Kmu - Upper Mural Limestone Kml - Lower Mural Limestone Km - Morita Formation Kg - Glance Conglomerate 	Geologic Unit - Hayes and Landis (1964) <ul style="list-style-type: none"> Pc - Colina Limestone PPe - Earp Formation Phu, Phm, Phi - Horquilla Limestone Me - Escabrosa Limestone Dm - Martin Limestone Ca - Abrigo Limestone 	Paleozoic Sedimentary Formations <ul style="list-style-type: none"> Kc - Cintura Formation (not shown) Kmu - Upper Mural Limestone Kml - Lower Mural Limestone Km - Morita Formation Kg - Glance Conglomerate 	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: 12/21/2021 File ID: 055038-567 CLEAR CREEK ASSOCIATES
	See Figure 3 for Monitoring Location Names					FIGURE 2 GEOLOGIC MAP WITH MONITORING LOCATIONS



Copyright:© 2013 National Geographic Society, i-cubed

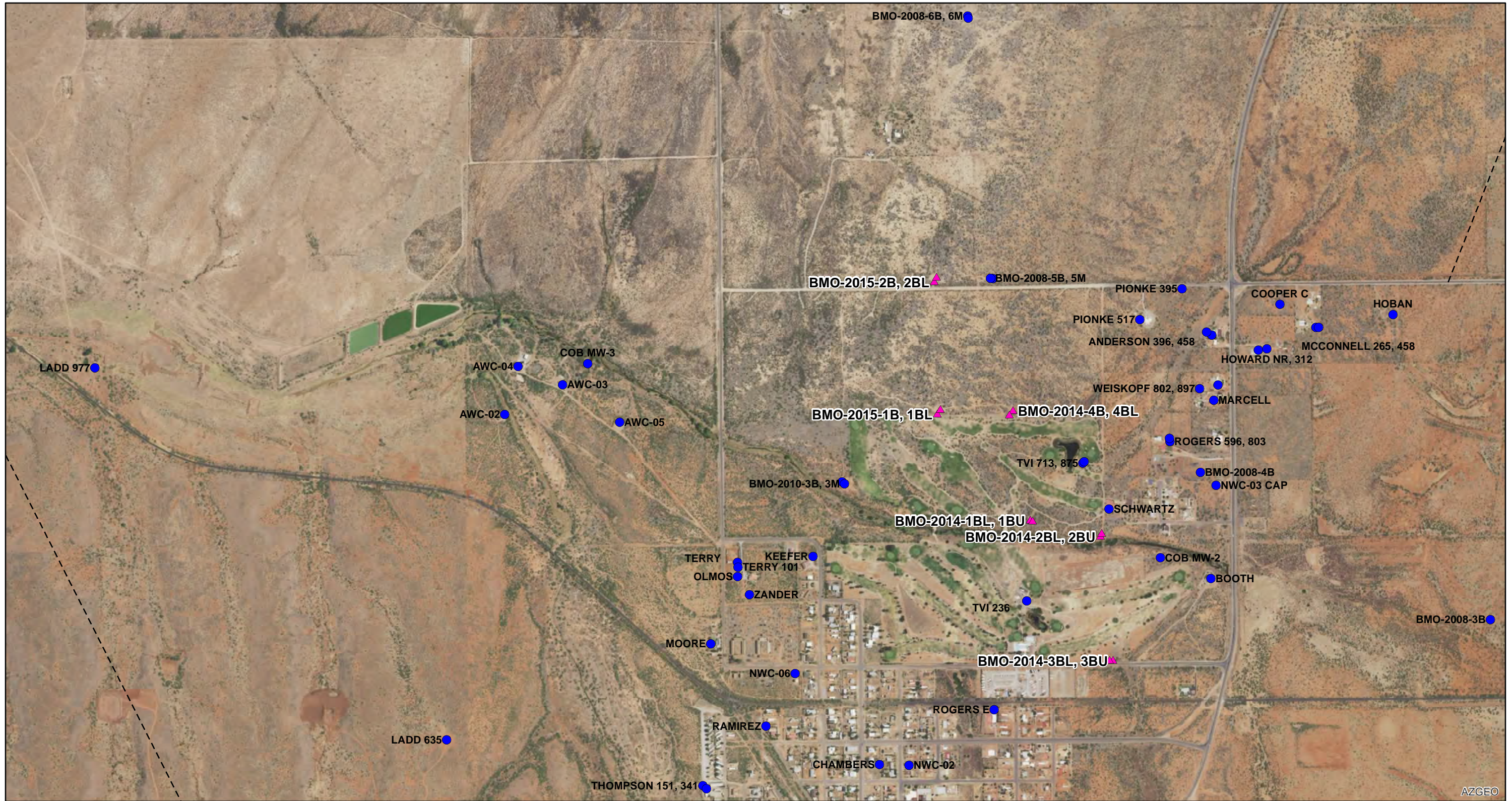
Legend

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



Date	1/31/2023	File ID	055038-568

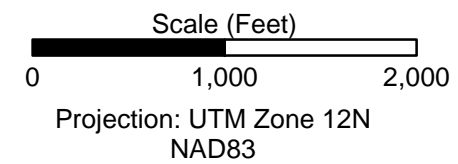
FIGURE 3
GROUNDWATER
MONITORING LOCATIONS



AZGEO

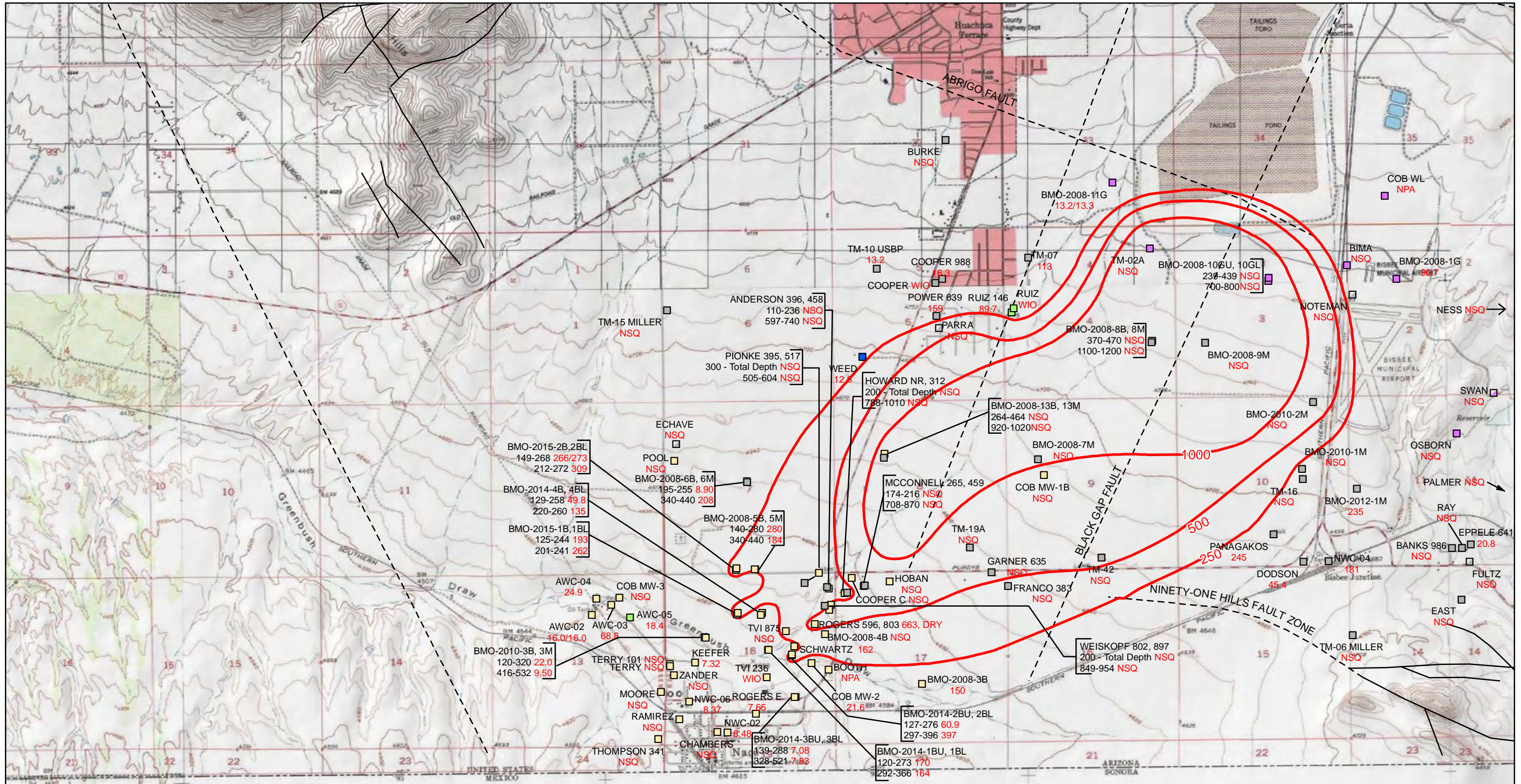
Legend

- ▲ Expanded Goundwater Monitoring Program Well
- Existing Well



Date 12/21/2021	File ID 055038-569

FIGURE 4
NACO AREA
WELL SITES



Copyright:© 2013 National Geographic Society, i-cubed

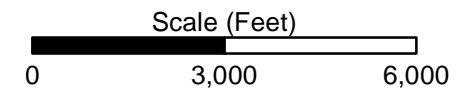
Legend

- NWC-02 Well ID
- 8.48 SO4 Concentration (mg/L)
- Duplicate results separated by "/"
- SO4 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

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

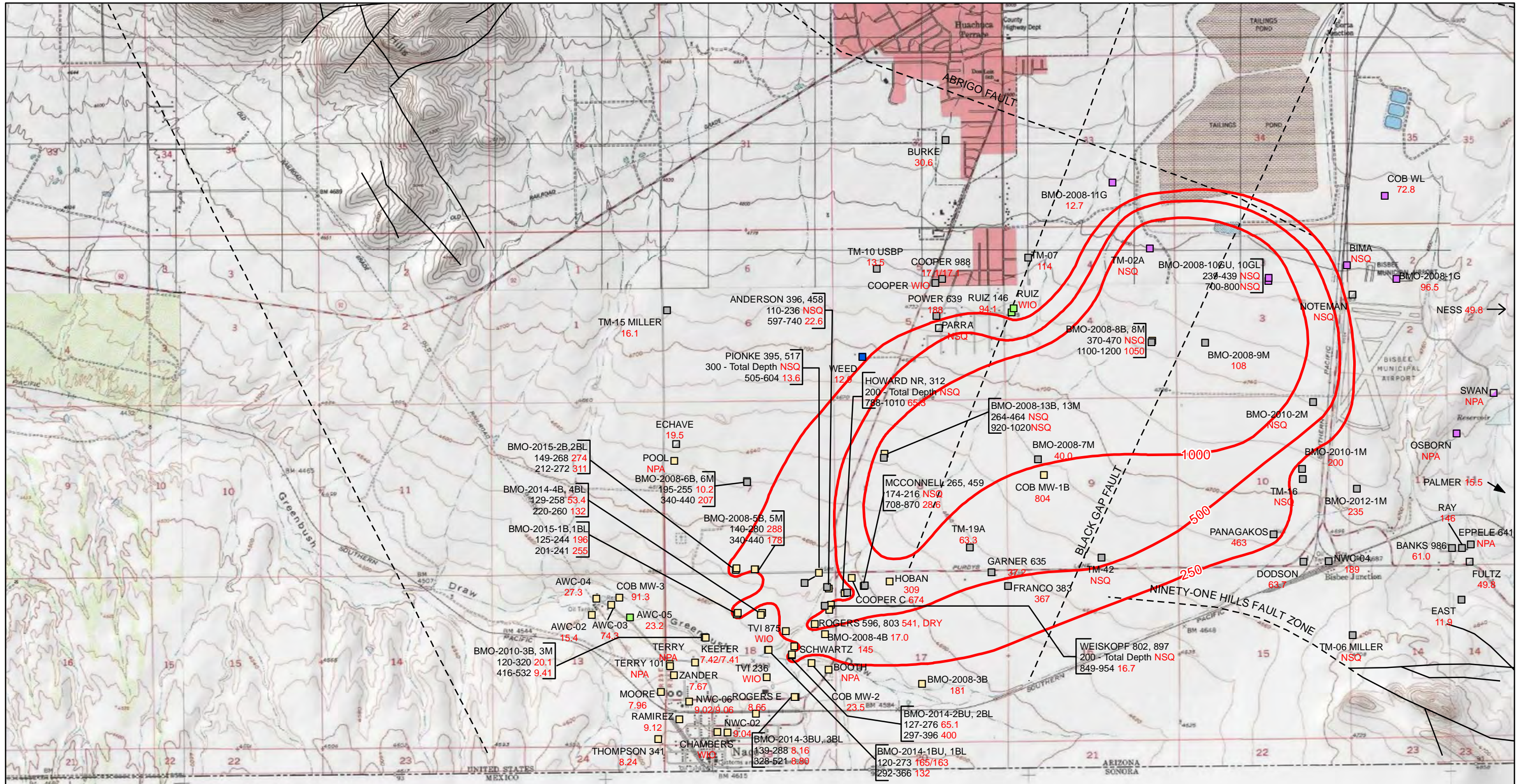


Date 1/31/2023

File ID 055038-575



FIGURE 5
 SULFATE CONCENTRATIONS IN
 SITE-WIDE GROUNDWATER SAMPLES
 FOR FIRST QUARTER 2022



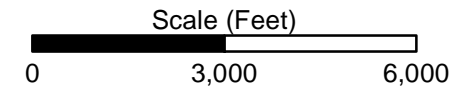
Copyright:© 2013 National Geographic Society, i-cubed

Legend

- NWC-02 Well ID
- 9.04 SO4 Concentration (mg/L)
- Duplicate results separated by "/"
- SO4 Concentration Contour
- - - Fault (dashed where inferred)
- Co-located Wells
 - Well ID
 - Screen (ft bls) Sulfate Concentration (mg/L)

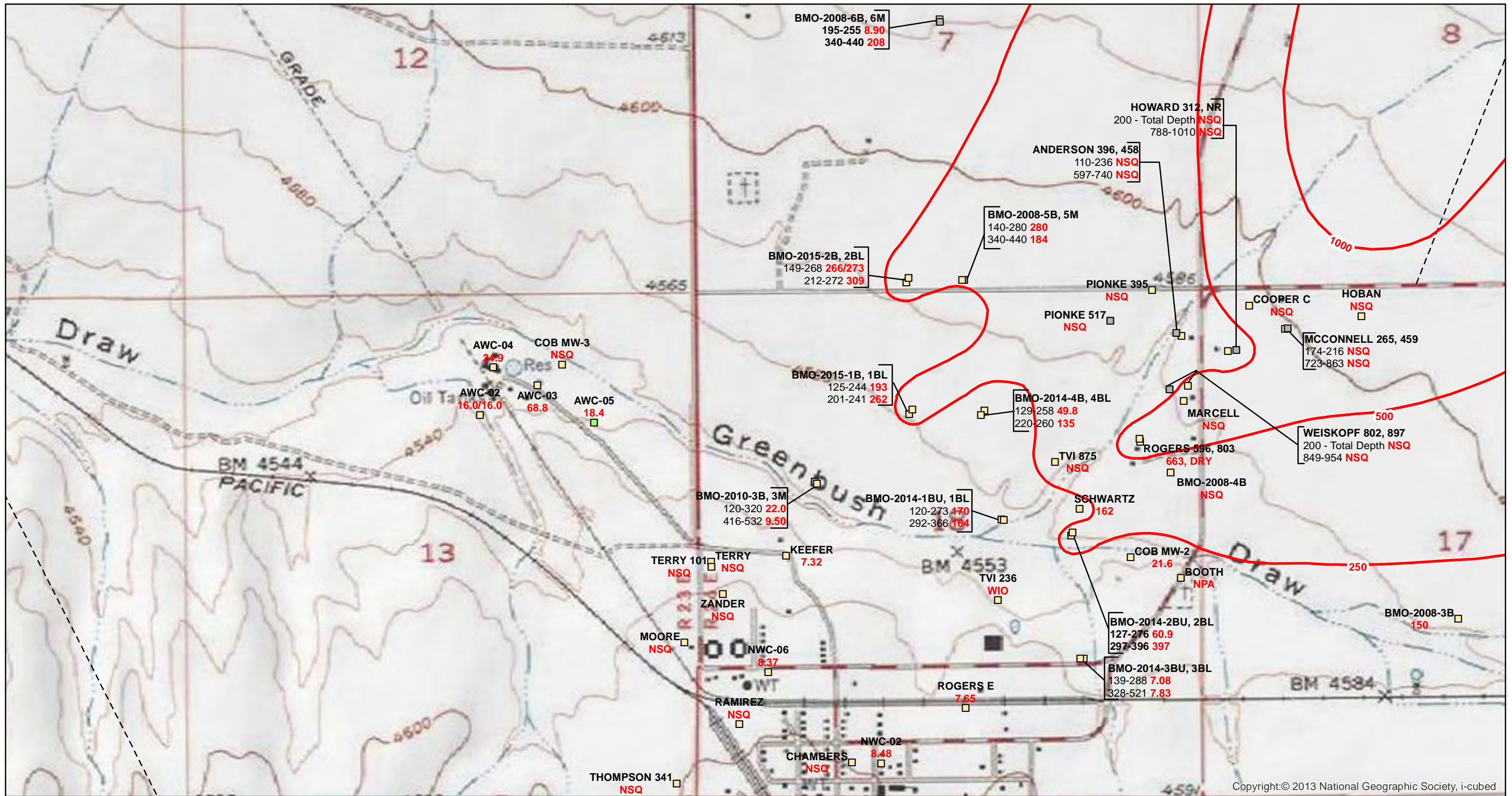
- Screened Formation**
- Basin Fill
 - Basin Fill and Undifferentiated Bisbee Group
 - Undifferentiated Bisbee Group
 - Undifferentiated Bisbee Group - Estimated
 - Undifferentiated Bisbee Group and Glance Conglomerate
 - Glance Conglomerate
 - Glance Conglomerate - Estimated
- Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

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



Date 1/31/2023	File ID 055038-579

FIGURE 6
 SULFATE CONCENTRATIONS IN
 SITE-WIDE GROUNDWATER SAMPLES
 FOR THIRD QUARTER 2022



Copyright:© 2013 National Geographic Society, i-cubed

Legend

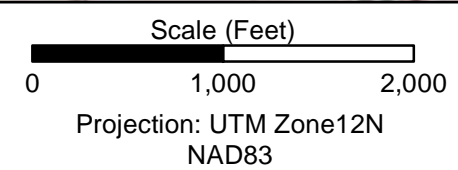
- NWC-02 Well ID
- 8.48 Sulfate Concentration (mg/L)
- Duplicate results separated by "/"
- Sulfate Concentration Contour
- - - Fault (Inferred)
- Co-located Wells
- Well ID
- Screen (ft bls) Sulfate Concentration (mg/L)

Screened Formation

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

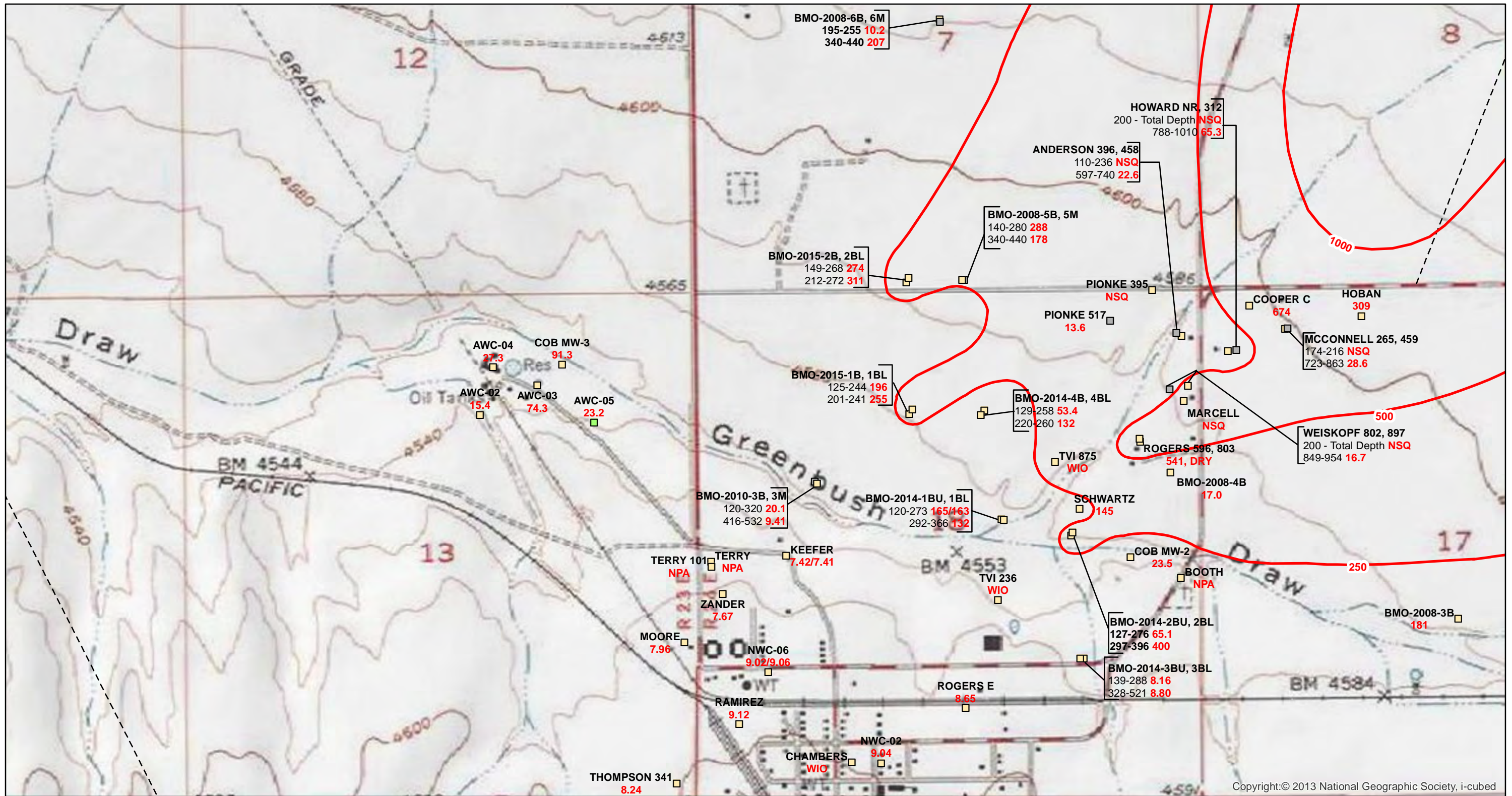
Undifferentiated Bisbee Group: Cintura, Mural Limestone, and Morita Formations

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.



Date 1/31/2023	File ID 055038-576

FIGURE 7
 SULFATE CONCENTRATIONS AT THE
 WEST EDGE OF THE PLUME FOR
 FIRST QUARTER 2022



Copyright:© 2013 National Geographic Society, i-cubed

Legend

- NWC-02 Well ID
- 9.04 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 Gance Conglomerate
- Gance Conglomerate
- Gance Conglomerate - Estimated

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

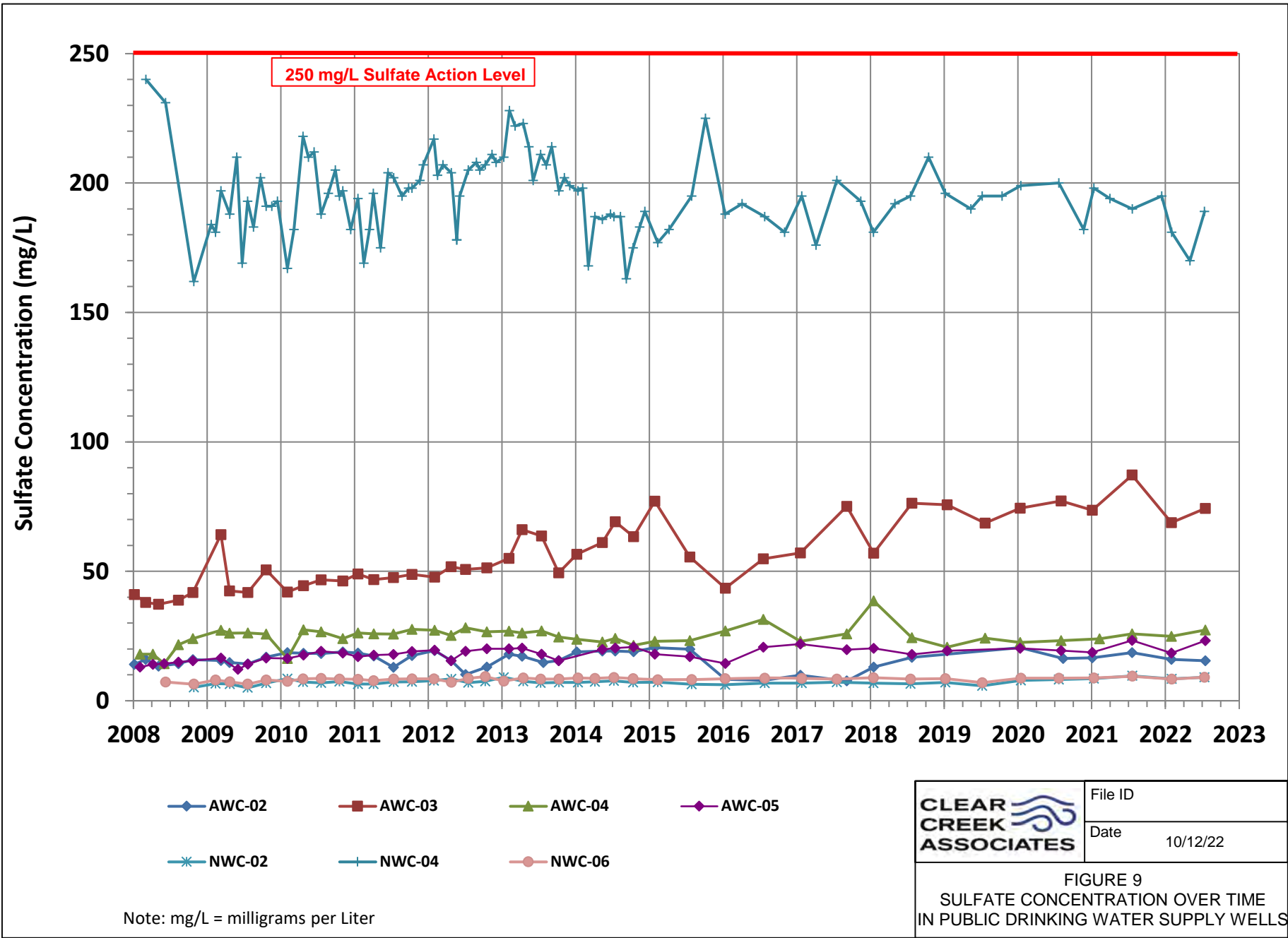
NPA = No Property Access
 NSQ = Not Scheduled for Quarter
 WIO = Well Inoperable
 mg/L = milligrams per liter
 ft bls = feet below land surface
 Sulfate contours are based on represented and historical data.

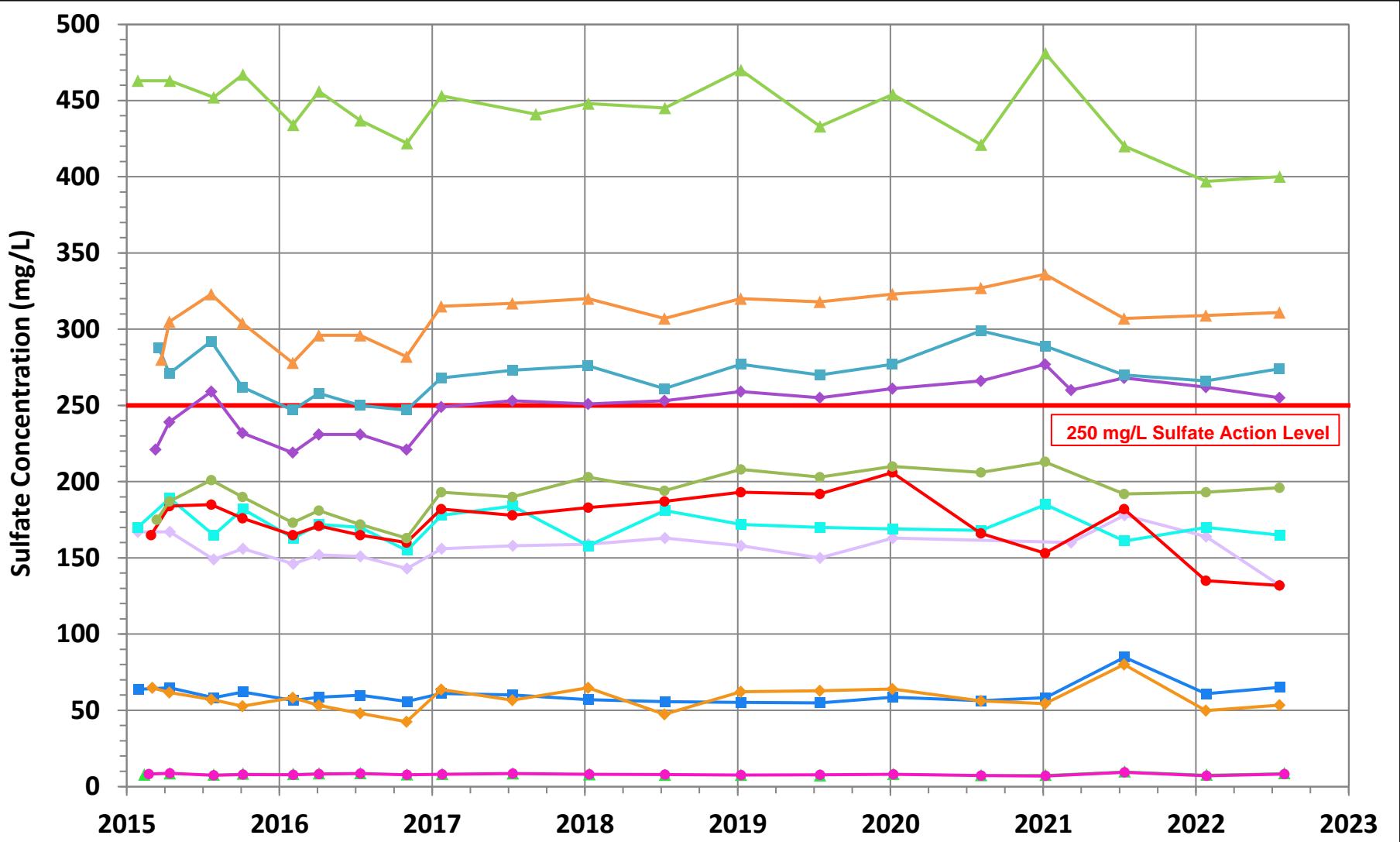
Scale (Feet)

Projection: UTM Zone12N
 NAD83

Date 1/31/2023	File ID 055038-580

FIGURE 8
 SULFATE CONCENTRATIONS AT THE WEST EDGE OF THE PLUME FOR THIRD QUARTER 2022



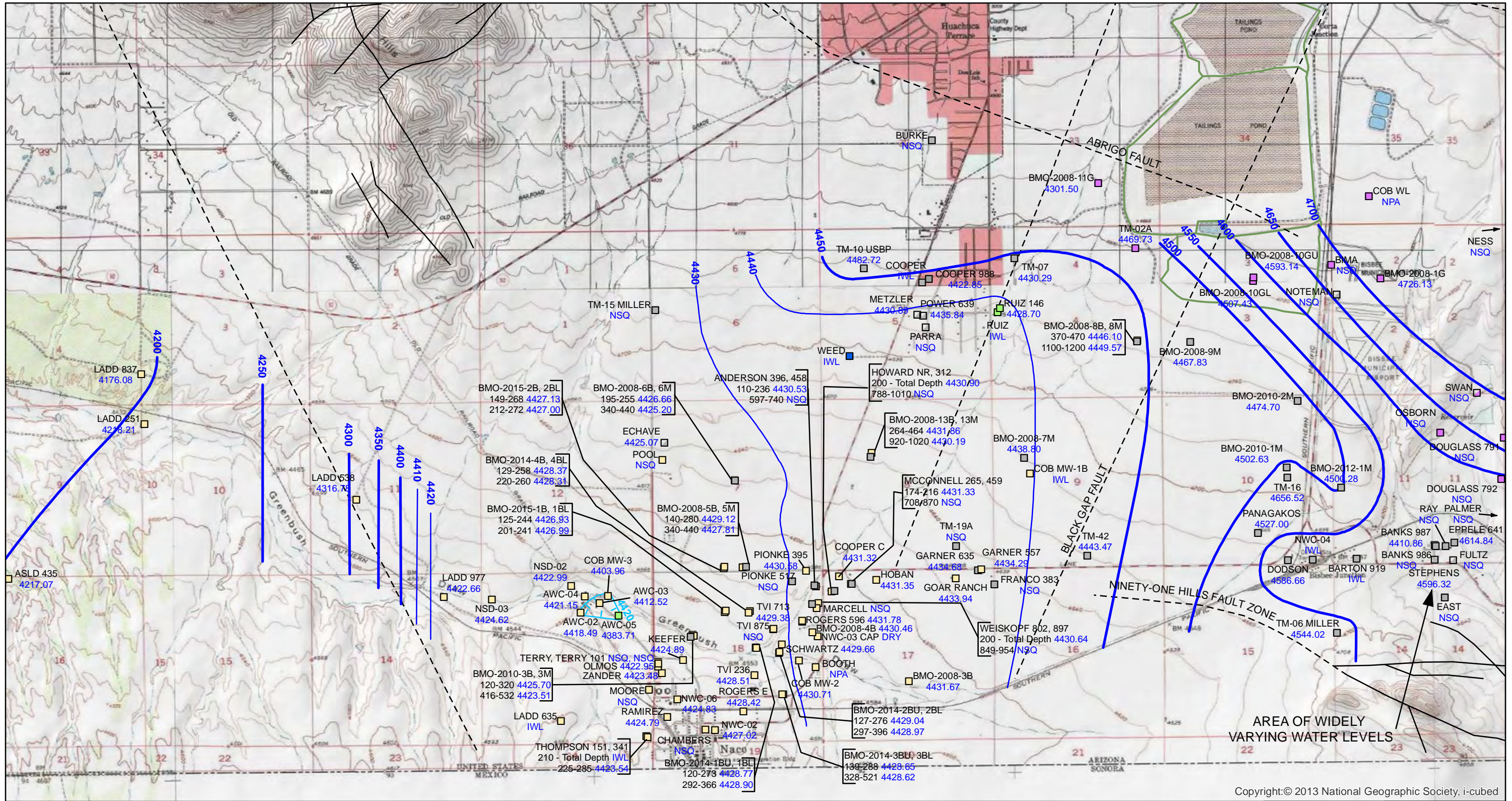


250 mg/L Sulfate Action Level

- ◆ 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
 ▲ BMO-2015-2BL

Note: mg/L = milligrams per Liter

	File ID
	Date 10/12/22
FIGURE 10 SULFATE CONCENTRATIONS OVER TIME IN EXPANDED GROUNDWATER MONITORING PROGRAM WELLS	



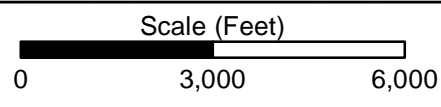
Copyright:© 2013 National Geographic Society, i-cubed

Legend

- AWC-05 Well ID
4383.71 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

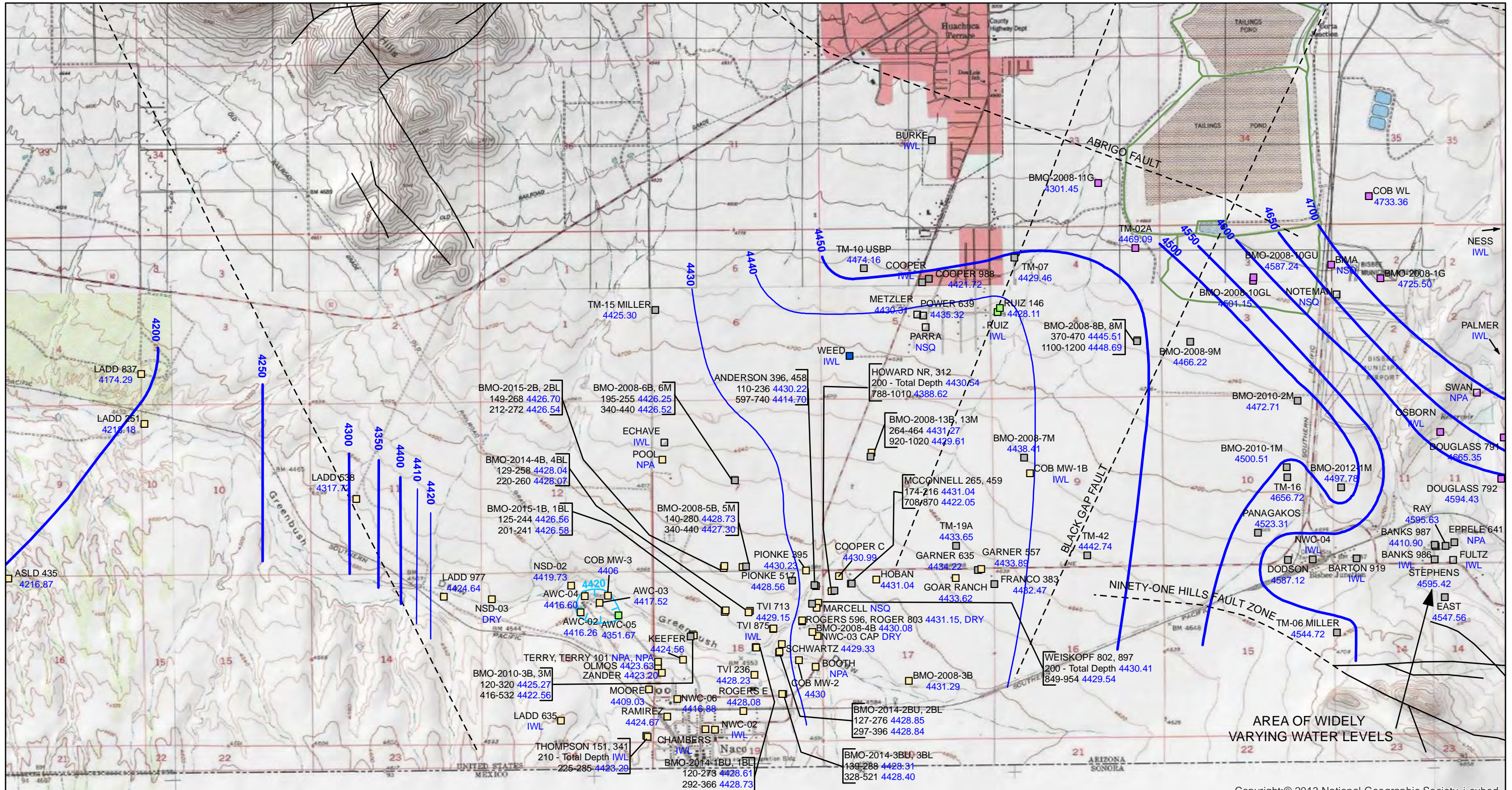
IWL = Inaccessible for Water Level
 NPA = No Property Access
 NSQ = Not Scheduled for Quarter
 ft amsl = feet above mean sea level
 ft bls = feet below land surface



Projection: UTM Zone 12N NAD83

Date	1/31/2023	File ID	055038-573

FIGURE 11
SITE-WIDE
GROUNDWATER ELEVATIONS
FOR FIRST QUARTER 2022



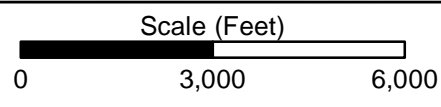
Copyright:© 2013 National Geographic Society, i-cubed

Legend

- AWC-05 Well ID
4351.67 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

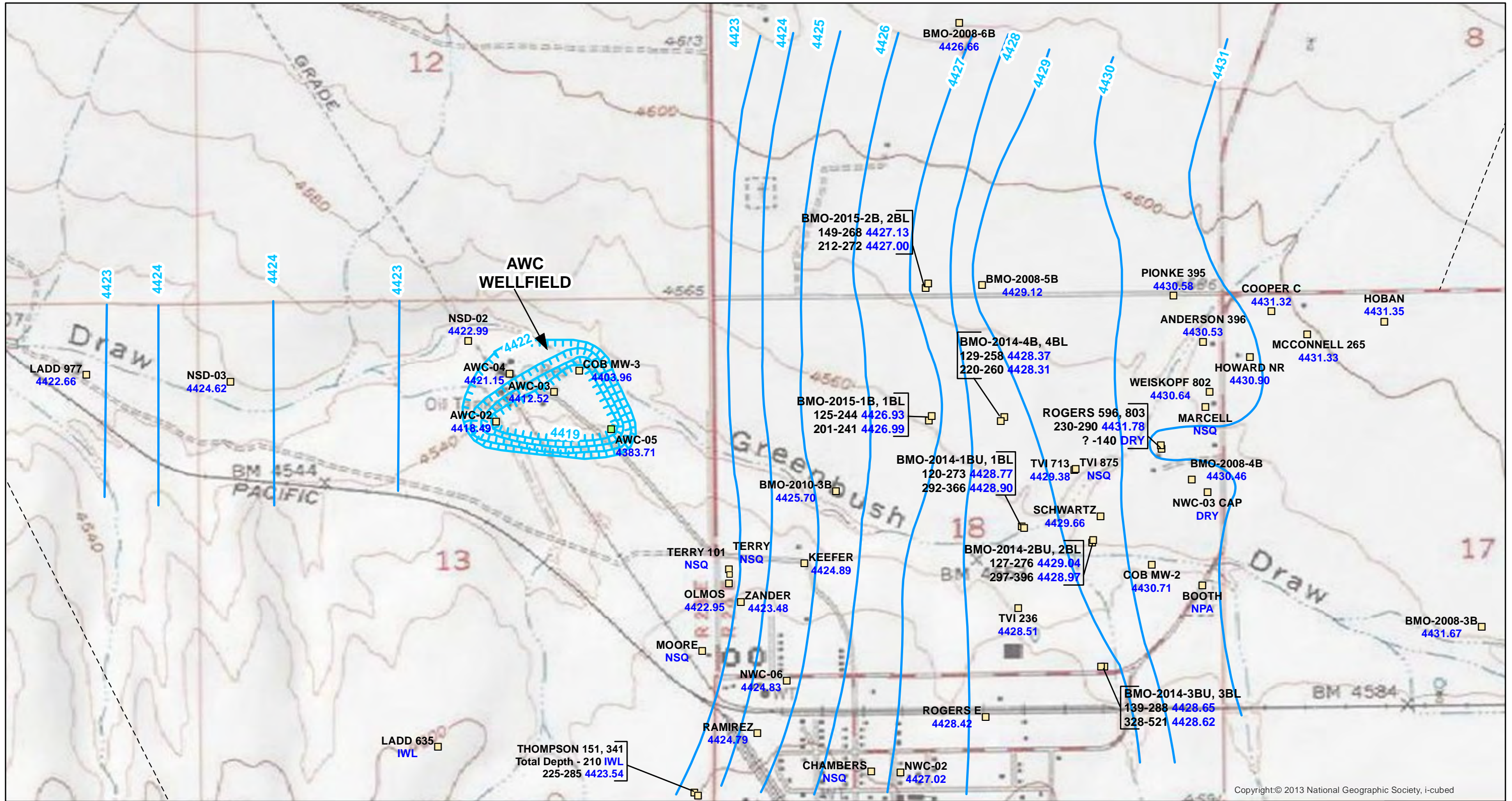
IWL = Inaccessible for Water Level
 NPA = No Property Access
 NSQ = Not Scheduled for Quarter
 ft amsl = feet above mean sea level
 ft bls = feet below land surface



Date	1/31/2023	File ID	055038-577

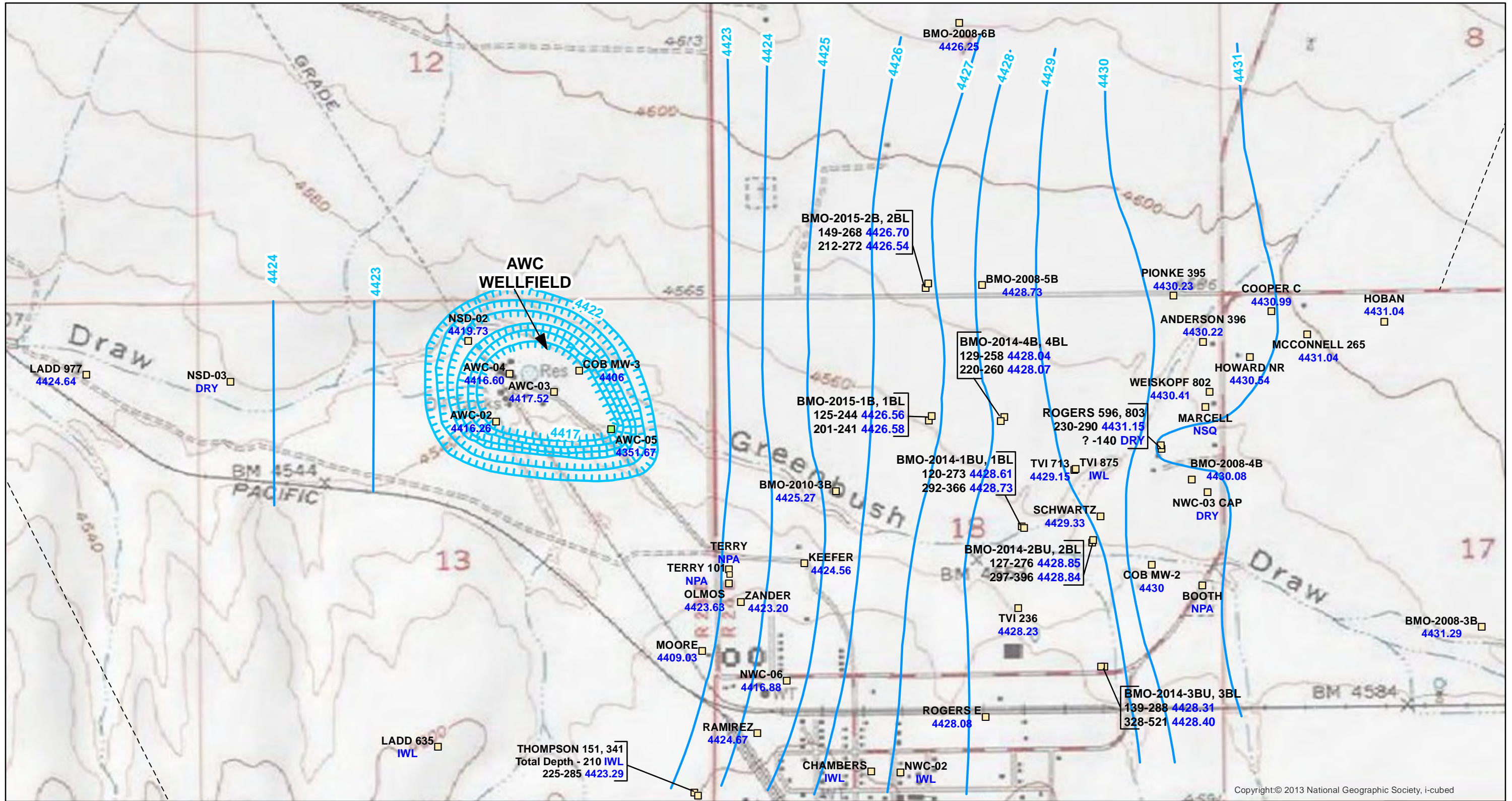
Projection: UTM Zone 12N NAD83

FIGURE 12
SITE-WIDE
GROUNDWATER ELEVATIONS
FOR THIRD QUARTER 2022



Copyright:© 2013 National Geographic Society, i-cubed

<p>Legend</p> <p> ■ AWC-02 Well ID 4418.49 Groundwater Elevation (ft amsl) — Groundwater Elevation Contour (ft amsl) - - - Groundwater Elevation Depression Contour (ft amsl) - - - Faults (dashed where inferred) Co-located Wells □ Well ID □ Screen (ft bls) 4418.49 Water Elevation (ft amsl) </p>		<p> ■ Screened Formation ■ Basin Fill ■ Basin Fill and Undifferentiated Bisbee Group ■ Undifferentiated Bisbee Group ■ Undifferentiated Bisbee Group - Estimated ■ Undifferentiated Bisbee Group and Gance Conglomerate ■ Gance Conglomerate ■ Gance Conglomerate-Estimated </p>		<p> IWL = Inaccessible 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 </p>		<p>Scale (Feet)</p> <p>0 1,000 2,000</p>		<p>Date: 3/6/2023</p> <p>File ID: 055038-574</p>	
				<p>Projection: UTM Zone 12N NAD83</p>		<p>FIGURE 13 BASIN FILL GROUNDWATER ELEVATIONS AT THE WEST EDGE OF THE PLUME FOR FIRST QUARTER 2022</p>			



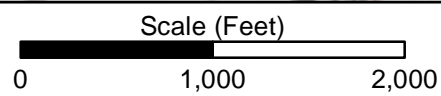
Copyright:© 2013 National Geographic Society, i-cubed

Legend

- AWC-02 Well ID
- 4416.26 Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
- Groundwater Elevation Depression Contour (ft amsl)
- - - Faults (dashed where 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 Gance Conglomerate
- Gance Conglomerate
- Gance Conglomerate-Estimated

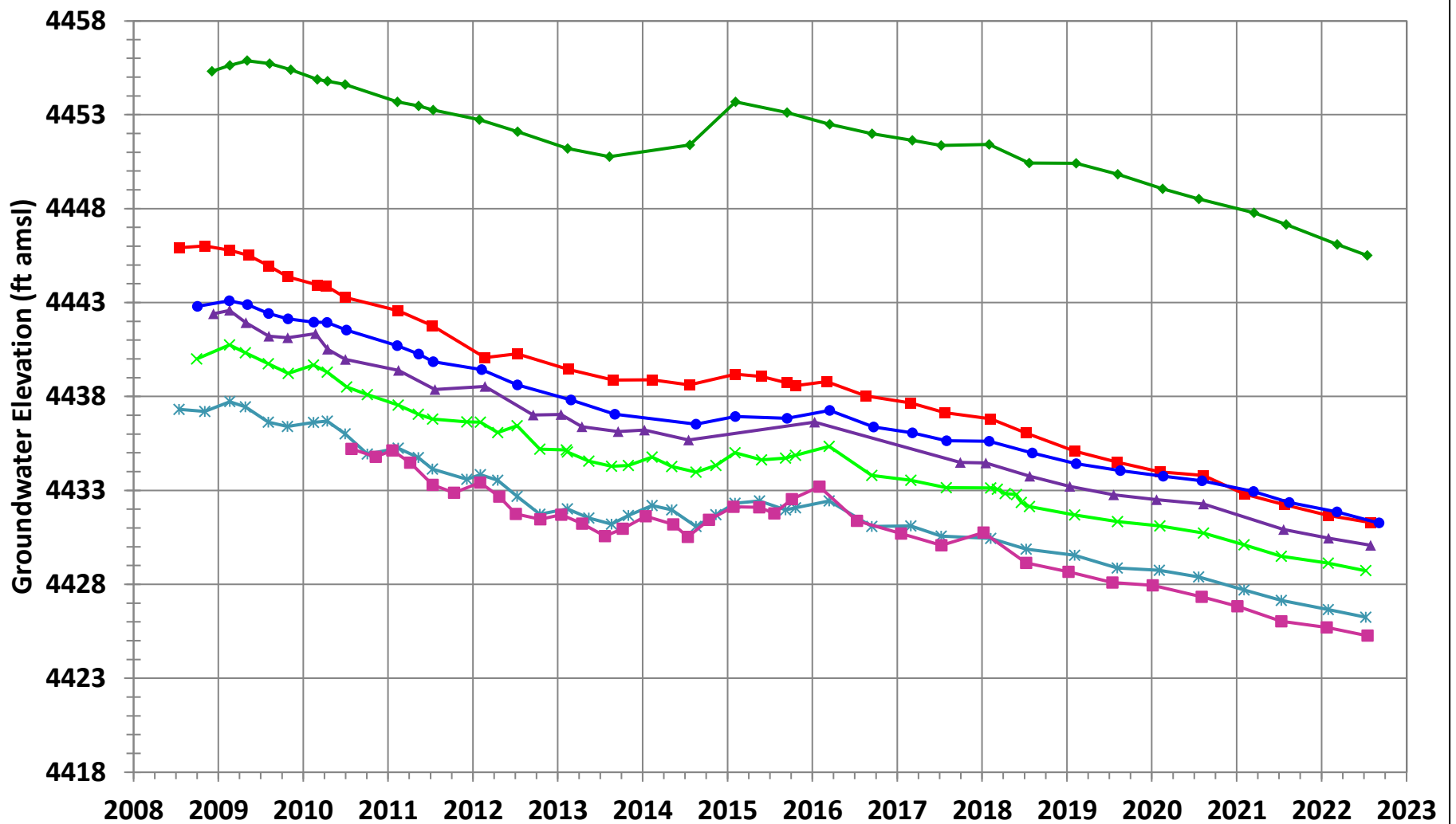
IWL = Inaccessible for Water Level
 NPA = No Property Access
 NSQ = Not scheduled for Quarter
 ft amsl = feet above mean sea level
 ft bls = feet below land surface



Projection: UTM Zone 12N NAD83


Date	1/31/2023	File ID	055038-578

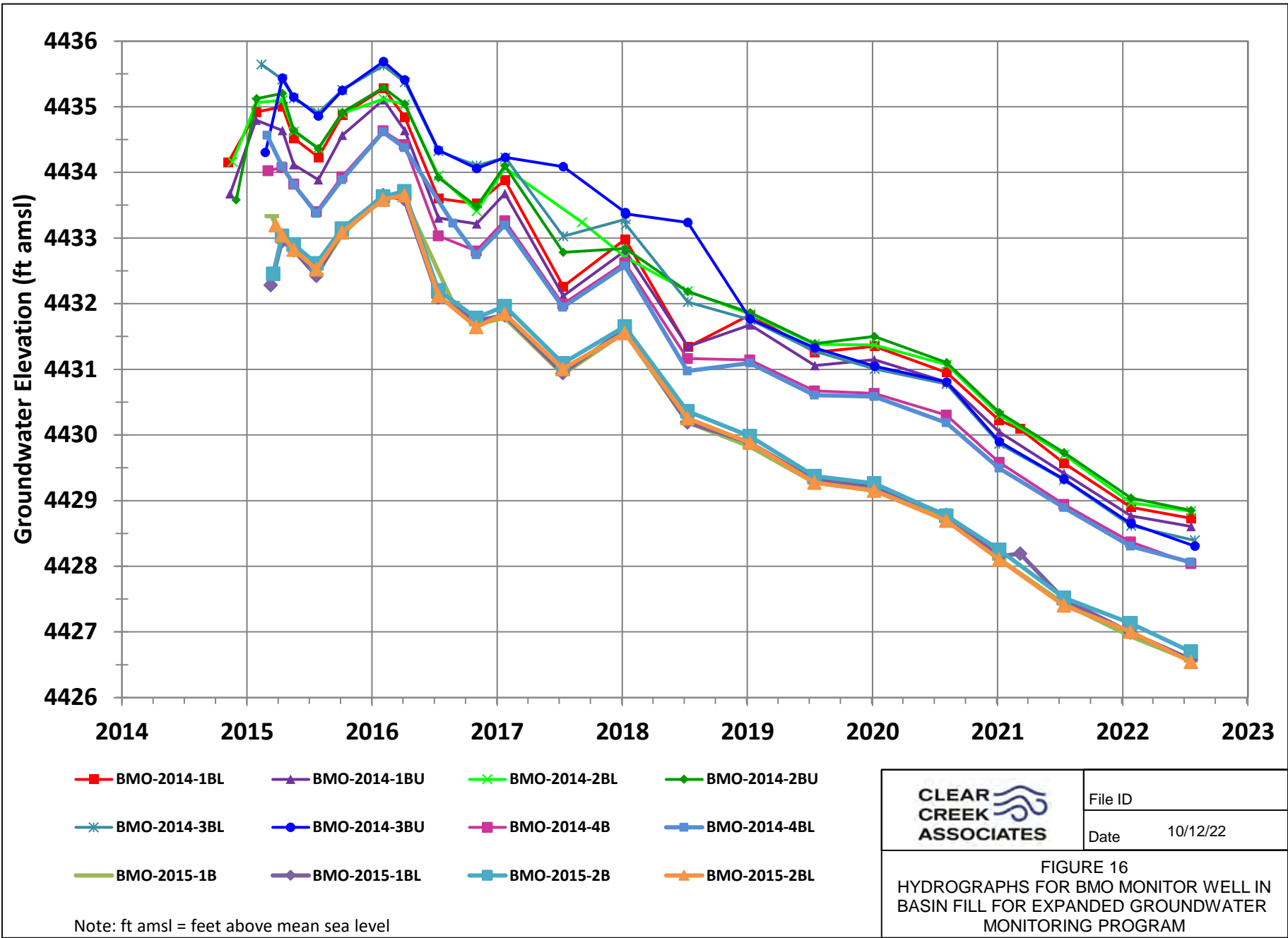
FIGURE 14
 BASIN FILL
 GROUNDWATER ELEVATIONS
 AT THE WEST EDGE OF THE PLUME
 FOR THIRD QUARTER 2022

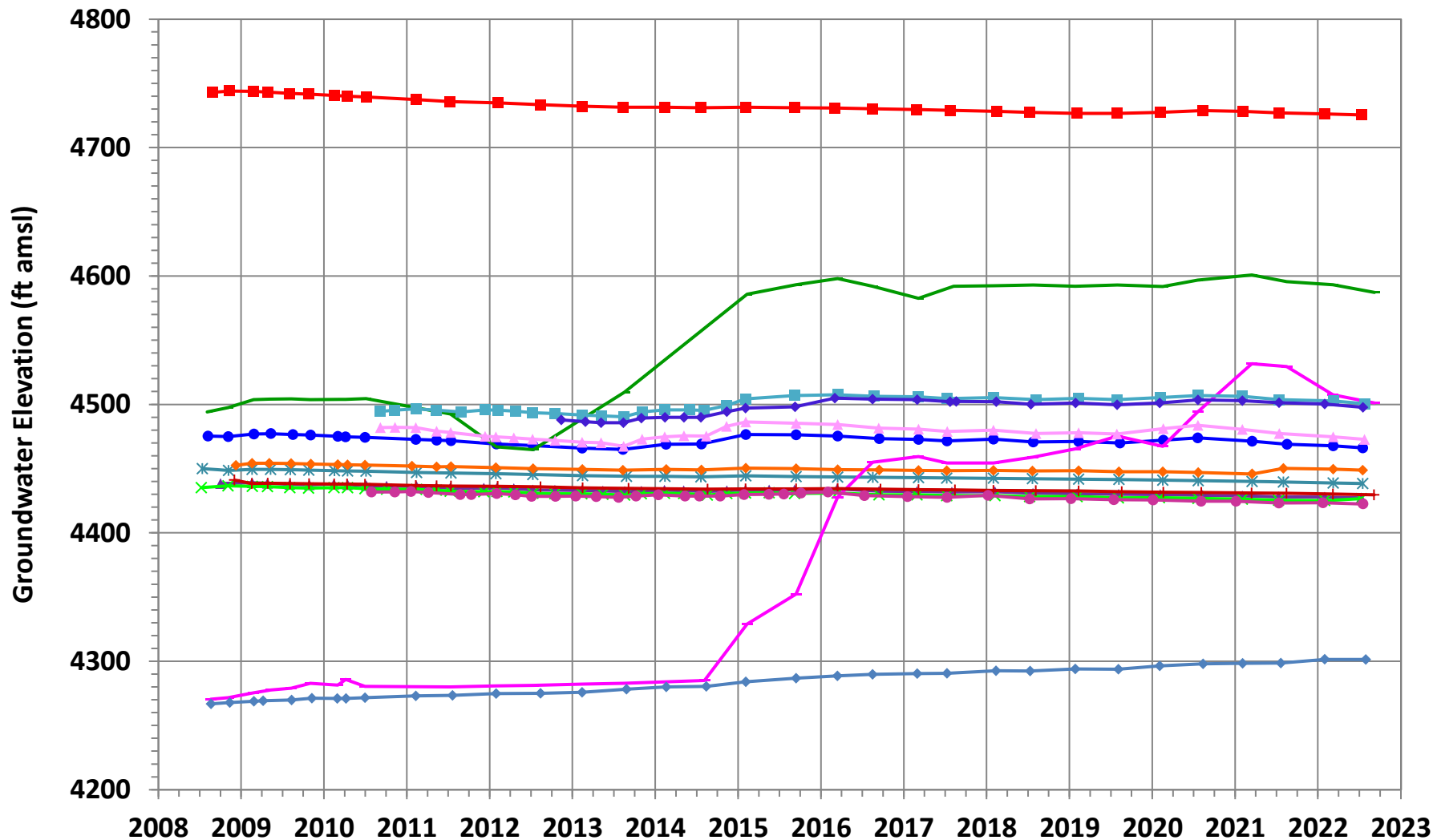


Note: ft amsl = feet above mean sea level

- BMO-2008-3B
 ▲ BMO-2008-4B
 ✕ BMO-2008-5B
 ✱ BMO-2008-6B
- ◆ BMO-2008-8B
 ● BMO-2008-13B
 ■ BMO-2010-3B

	File ID
	Date 10/12/22
FIGURE 15 HYDROGRAPHS FOR SELECTED BMO MONITOR WELLS IN BASIN FILL	





Note: ft amsl = feet above mean sea level



File ID	
Date	10/12/22

FIGURE 17
HYDROGRAPHS FOR BMO MONITOR
WELLS IN BEDROCK

APPENDICES

APPENDIX A
GROUNDWATER SAMPLING FORMS

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/27/22
 Well ID: ANDERSON 396 Weather: clear, 60s
 ADWR No: 613396 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>285</u>	Casing Capacity	
Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>157.98</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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	L	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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: AWC-02 Weather: Clear, 40s
 ADWR No: 616586 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>333</u>	Casing Capacity	
Casing Diameter (in): <u>20</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>129.15</u>	2	0.16
Casing Volume (gal): <u>3,325 x3 = 9,975</u>	4	0.65
Total Volume Purged (gal):	5	1.02
	6	1.47
	8	2.61
	10	4.08
	16	10.44
	20	<u>16.31</u>
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
<u>12:00</u>	<u>Pump On</u>						
<u>12:30</u>	<u>30</u>	<u>7.8</u>	<u>2,340</u>	<u>7.26</u>	<u>19.8</u>	<u>563.9</u>	
<u>13:00</u>	<u>60</u>	<u>7.8</u>	<u>4,680</u>	<u>7.24</u>	<u>19.9</u>	<u>555.4</u>	
<u>13:30</u>	<u>90</u>	<u>7.8</u>	<u>7,020</u>	<u>7.24</u>	<u>19.9</u>	<u>557.1</u>	
<u>14:10</u>	<u>130</u>	<u>7.8</u>	<u>10,140</u>	<u>7.20</u>	<u>19.9</u>	<u>552.9</u>	
							<u>Pump Off</u>

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 / <u>near</u> wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>AWC-02</u>	<u>1412</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>SCC</u>	<u>MP</u>	<u>Y</u>
<u>D4P20220231</u>	<u>(1200)</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>SCC</u>	<u>MP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/>	Water level measurement collected.
<input type="checkbox"/>	No water level measurement collected. No access to wellhead/No port in wellhead
<input type="checkbox"/>	No water level measurement collected. Obstruction in well.
<input type="checkbox"/>	No water level measurement collected. Well is pumping.
<input type="checkbox"/>	Other:

WELL PURGING INFORMATION	
<input checked="" type="checkbox"/>	Purged 3 well volumes and field parameters stabilized.
<input type="checkbox"/>	Purged 3 well volumes based on previous water level and field parameters stabilized.
<input type="checkbox"/>	Purged well until field parameters stabilized.
<input type="checkbox"/>	Other:

Additional Comments: Hand Filtered sample



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: AWC-03 Weather: clear, 40s
 ADWR No: 616585 Sampler: JA

WELL DATA		
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity
		Nominal Size (inches) Gallons per Linear Foot
<u>270</u>	<u>16</u>	2 0.16
		4 0.65
		5 1.02
Static Water Level (ft bmp):	<u>127.00 (using AWC's sounder)</u>	6 1.47
		8 2.61
Casing Volume (gal):	<u>1,493 x3 = 4,479</u>	10 4.08
		(16) (10.44)
Total Volume Purged (gal):		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
<u>11:00</u>	<u>Pump On</u>						
<u>11:05</u>	<u>5</u>	<u>800</u>	<u>4,000</u>	<u>7.38</u>	<u>19.7</u>	<u>523.0</u>	
<u>11:10</u>	<u>10</u>	<u>800</u>	<u>8,000</u>	<u>7.34</u>	<u>19.9</u>	<u>519.2</u>	
<u>11:15</u>	<u>15</u>	<u>800</u>	<u>12,000</u>	<u>7.35</u>	<u>19.7</u>	<u>517.8</u>	
							<u>Pump Off</u>

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 / <u>near</u> wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>AWC-03</u>	<u>11:19</u>	<u>poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>no</u>	<u>Y</u>

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: 1 and 2 filtered sample



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: AWC-04 Weather: clear, 70s
 ADWR No: 616584 Sampler: TA

WELL DATA		
Well Depth (ft bls): <u>337</u>	Casing Capacity	
Casing Diameter (in): <u>16</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>119.33</u>	2	0.16
Casing Volume (gal): <u>2,273 x3 = 6,819</u>	4	0.65
Total Volume Purged (gal):	5	1.02
	6	1.47
	8	2.61
	10	4.08
	<u>16</u>	<u>10.44</u>
	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
<u>11:30</u>	<u>Pump On</u>						
<u>11:35</u>	<u>5</u>	<u>700</u>	<u>3,500</u>	<u>6.99</u>	<u>19.0</u>	<u>755.2</u>	
<u>11:40</u>	<u>10</u>	<u>700</u>	<u>7,000</u>	<u>6.99</u>	<u>19.0</u>	<u>755.1</u>	
<u>11:45</u>	<u>15</u>	<u>700</u>	<u>10,500</u>	<u>6.98</u>	<u>18.9</u>	<u>756.6</u>	
							<u>Pump Off</u>

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 <u>near</u> wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>AWC-04</u>	<u>11:47</u>	<u>poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>MP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:	

WELL PURGING INFORMATION	
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:	

Additional Comments: Hand filtered sample



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: AWC-05 Weather: clear, 40s
 ADWR No: 590620 Sampler: JH

WELL DATA		
Well Depth (ft bls):	<u>1,183</u>	Casing Capacity
Casing Diameter (in):	<u>16</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>158.80</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>10,693 x3 = 32,079</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		(16)
		20
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
<u>0940</u>	<u>Pump On</u>						
<u>0955</u>	<u>15</u>	<u>600</u>	<u>9,000</u>	<u>7.43</u>	<u>19.9</u>	<u>459.0</u>	
<u>1010</u>	<u>30</u>	<u>600</u>	<u>18,000</u>	<u>7.44</u>	<u>20.3</u>	<u>452.3</u>	
<u>1025</u>	<u>45</u>	<u>600</u>	<u>27,000</u>	<u>7.41</u>	<u>20.5</u>	<u>448.8</u>	
<u>1040</u>	<u>60</u>	<u>600</u>	<u>36,000</u>	<u>7.45</u>	<u>20.7</u>	<u>445.9</u>	
							<u>Pump Off</u>

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)
<u>AWC-05</u>	<u>10:42</u>	<u>poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>VP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Hand Filtered Sample



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/28/22
 Well ID: Banks 987 Weather: Clr, Windy 50's
 ADWR No: 647987 Sampler: GL

WELL DATA		
Well Depth (ft bls):	<u>339</u>	Casing Capacity
Casing Diameter (in):	<u>6</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>237.32'</u>	2 0.16
Casing Volume (gal):	x3 =	4 0.65
Total Volume Purged (gal):		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: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/28/22
 Well ID: Barton 919 Weather: clr. Windy 50s
 ADWR No: 644919 Sampler: GK

WELL DATA			
Well Depth (ft bls):	<u>130</u>	Casing Capacity	
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>WLT</u>	2	0.16
Casing Volume (gal):	<u> </u> x3 =	4	0.65
Total Volume Purged (gal):	<u>6</u>	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
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:
new owner Kevin Wright
Phone # 480-734-0407

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 1-31-22
 Well ID: BMO-2008-1G Weather: Sunny
 ADVWR No: _____ Sampler: Christopher L. Skinner

WELL DATA

Well Depth (ft bis): <u>310</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5"</u>	2	0.18
Static Water Level (ft bmp): <u>78.97</u>	4	0.65
Casing Volume (gal): <u>235.6 x3 = 707</u>	5	1.02
Total Volume Purged (gal): <u>747</u>	6	1.47
	8	2.81
	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
<u>0630</u>	<u>Pump On</u>						
<u>0700</u>	<u>30</u>	<u>8.3</u>	<u>249</u>	<u>6.99</u>	<u>21.1</u>	<u>839</u>	
<u>0730</u>	<u>60</u>	<u>8.3</u>	<u>498</u>	<u>7.52</u>	<u>19.4</u>	<u>872</u>	
<u>0800</u>	<u>90</u>	<u>8.3</u>	<u>747</u>	<u>7.03</u>	<u>19.0</u>	<u>865</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-1G</u>	<u>0800</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>PC</u>	<u>Y</u>

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: 231.0

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 1-31-27
 Well ID: BMO-2008-3B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Yocum

WELL DATA

Well Depth (ft bls): <u>260</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5'</u>	2	0.16
Static Water Level (ft bmp): <u>152.30</u>	4	0.65
Casing Volume (gal): <u>110</u> x3 = <u>330</u>	5	1.02
Total Volume Purged (gal): <u>540</u>	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
<u>0850</u>	Pump On						
<u>0900</u>	<u>10</u>	<u>27</u>	<u>135</u>	<u>7.21</u>	<u>20.5</u>	<u>6.70</u>	
<u>0905</u>	<u>15</u>	<u>27</u>	<u>405</u>	<u>7.25</u>	<u>20.2</u>	<u>6.68</u>	
<u>0910</u>	<u>20</u>	<u>27</u>	<u>540</u>	<u>7.26</u>	<u>20.3</u>	<u>6.72</u>	
							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)
<u>Bmo-2008-3B</u>	<u>0910</u>	<u>P1</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Fe</u>	<u>Y</u>

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: 107.7

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: BMO-2008-4B Weather: clr 60s
 ADWR No: _____ Sampler: Gil

WELL DATA			Casing Capacity	
Well Depth (ft bls):	<u>610</u>		Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in):	<u>5</u>		2	0.16
Static Water Level (ft bmp):	<u>142.71</u>		4	0.65
Casing Volume (gal):	<u>x3 =</u>		5	1.02
Total Volume Purged (gal):			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
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 1-31-22
 Well ID: BMO-2008-5B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sherman

WELL DATA

Well Depth (ft bbs): <u>285</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.18
Static Water Level (ft bmp): <u>155.98</u>	4	0.65
Casing Volume (gal): <u>131.6 x3 = 395</u>	6	1.02
Total Volume Purged (gal): <u>675</u>	8	1.47
	8	2.81
	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
<u>1300</u>	Pump On						
<u>1305</u>	<u>5</u>	<u>27</u>	<u>135</u>	<u>6.92</u>	<u>22.6</u>	<u>857</u>	
<u>1315</u>	<u>15</u>	<u>27</u>	<u>405</u>	<u>6.95</u>	<u>22.4</u>	<u>860</u>	
<u>1325</u>	<u>25</u>	<u>27</u>	<u>675</u>	<u>6.96</u>	<u>22.2</u>	<u>858</u>	
							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)
<u>BMO-2008-5B</u>	<u>1325</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>DC</u>	<u>X</u>

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: 129.1

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 1-31-22
 Well ID: BMO-2008-5M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shivers

WELL DATA

Well Depth (ft bis): <u>450</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>157.21</u>	4	0.65
Casing Volume (gal): <u>298.6 x3 = 895.9</u>	5	1.02
Total Volume Purged (gal): <u>990</u>	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
<u>1150</u>	Pump On						
<u>1215</u>	<u>25</u>	<u>18</u>	<u>450</u>	<u>7.17</u>	<u>22.6</u>	<u>696</u>	
<u>1235</u>	<u>45</u>	<u>18</u>	<u>810</u>	<u>7.15</u>	<u>22.7</u>	<u>697</u>	
<u>1245</u>	<u>55</u>	<u>18</u>	<u>990</u>	<u>7.13</u>	<u>22.8</u>	<u>699</u>	
							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)
<u>BMO-2008-5M</u>	<u>1255</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Tray</u>	<u>Y</u>

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:

1 292.8

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 1-31-22
 Well ID: BMO-2008-6B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shum

WELL DATA

Well Depth (ft bls): <u>265</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>200.78</u>	4	0.65
Casing Volume (gal): <u>655 x3 = 197</u>	6	1.02
Total Volume Purged (gal): <u>225</u>	8	1.47
	8	2.81
	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
<u>1045</u>	Pump On						
<u>1100</u>	<u>15</u>	<u>51</u>	<u>75</u>	<u>7.08</u>	<u>22.2</u>	<u>289</u>	
<u>1115</u>	<u>30</u>	<u>51</u>	<u>150</u>	<u>7.10</u>	<u>21.9</u>	<u>293</u>	
<u>1130</u>	<u>45</u>	<u>51</u>	<u>225</u>	<u>7.11</u>	<u>21.8</u>	<u>292</u>	
							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)
<u>BMO-2008-6B</u>	<u>1130</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>Iu</u>	<u>Y</u>

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: 1.4.22

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 1-31-22
 Well ID: BMO-2008-6M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA

Well Depth (ft bbs): <u>450</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5"</u>	2	0.16
Static Water Level (ft bmp): <u>201.70</u>	4	0.66
	5	1.02
Casing Volume (gal): <u>253.2 x3 = 759.7</u>	6	1.47
	8	2.61
Total Volume Purged (gal): <u>840</u>	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
<u>0955</u>	<u>Pump On</u>						
<u>1005</u>	<u>10</u>	<u>21</u>	<u>210</u>	<u>7.08</u>	<u>22.3</u>	<u>749</u>	
<u>1015</u>	<u>20</u>	<u>21</u>	<u>420</u>	<u>7.05</u>	<u>22.4</u>	<u>747</u>	
<u>1025</u>	<u>30</u>	<u>21</u>	<u>630</u>	<u>7.06</u>	<u>22.4</u>	<u>749</u>	
<u>1035</u>	<u>40</u>	<u>21</u>	<u>840</u>	<u>7.05</u>	<u>22.5</u>	<u>748</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-6M</u>	<u>1035</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ta</u>	<u>✓</u>

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: 2483

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-10-27
 Well ID: BMO-2008-7M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA		
Well Depth (ft bls): <u>670</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>249.53</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal): _____	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 parameters stabilized.

Purged well until field parameters stabilized.

Other: _____

Additional Comments: Slack only



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-10-22
 Well ID: BMD-2008-8B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Starman

WELL DATA

Well Depth (ft bls): <u>480</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>307.15</u> Casing Volume (gal): <u>x3 =</u> 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 parameters 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: 3-10-22
 Well ID: BMO-2008-8M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA

Well Depth (ft bls): <u>1210</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>302.88</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: Suck only



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-10-22
 Well ID: Bmo-2008-9m Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Steerung

WELL DATA

Well Depth (ft bls): <u>775</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>294.78</u> Casing Volume (gal): <u>x3 =</u> 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 parameters 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: 3-9-22
 Well ID: BMD-2008-106L Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sturman

WELL DATA

Well Depth (ft bls): <u>810</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>284.78</u> Casing Volume (gal): <u>x3 =</u> Total Volume Purged (gal): _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.65</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> <p style="text-align: center;">Casing Volume = gallons/foot * water column (feet)</p>	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 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																

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 parameters 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: 3-9-22
 Well ID: BMO-2008-1064 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bls): <u>449</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>200.31</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: sub only



Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 2-1-22
 Well ID: Bmo-2008-116 Weather: Partly Cloudy
 ADWR No: _____ Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bis): <u>760</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>543.17</u>	4	0.65
Casing Volume (gal): <u>22.3 x3 = 66.9</u>	5	1.02
Total Volume Purged (gal): <u>720</u>	6	1.47
	8	2.81
	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
<u>1020</u>	Pump On						
<u>1030</u>	<u>10</u>	<u>8</u>	<u>80</u>	<u>7.71</u>	<u>24.7</u>	<u>345</u>	
<u>1050</u>	<u>30</u>	<u>8</u>	<u>240</u>	<u>7.82</u>	<u>24.8</u>	<u>377</u>	
<u>1120</u>	<u>60</u>	<u>8</u>	<u>480</u>	<u>7.83</u>	<u>24.8</u>	<u>350</u>	
<u>1150</u>	<u>90</u>	<u>8</u>	<u>720</u>	<u>7.81</u>	<u>24.8</u>	<u>348</u>	
							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)
<u>Bmo-2008-116</u>	<u>1150</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Tu</u>	<u>X</u>

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: 217

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-9-22
 Well ID: BMP-2008-13B Weather: Sunny
 ADWR No: _____ Sampler: Christopher I Skerman

WELL DATA

Well Depth (ft bis): <u>475</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>217.35</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWH only



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-9-22
 Well ID: BMO-2008-13M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Sturm

WELL DATA

Well Depth (ft bls): <u>1030</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>216.96</u> Casing Volume (gal): <u>x3 =</u> 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 parameters 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: 3-10-22
 Well ID: BMO-2010-1M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Strawn

WELL DATA

Well Depth (ft bls): <u>550</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>215.92</u> Casing Volume (gal): <u>x3 =</u> 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 parameters 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: 3-10-22
 Well ID: Bmp-2010-2M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA

Well Depth (ft bls): <u>380</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>271.46</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWL only



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1-24-22
 Well ID: BMO-2010-3B Weather: clear 30s
 ADWR No: 219970 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>330</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>124.89</u>	2	0.16
Casing Volume (gal): <u>209</u> x3 = <u>628</u>	4	0.65
Total Volume Purged (gal): <u>680</u>	5	1.03
	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
<u>0856</u>	<u>Pump On</u>						
<u>0916</u>	<u>20</u>	<u>8</u>	<u>160</u>	<u>7.42</u>	<u>19.6</u>	<u>423.5</u>	
<u>0936</u>	<u>40</u>	<u>370</u>	<u>320</u>	<u>7.49</u>	<u>20.0</u>	<u>419.6</u>	
<u>0956</u>	<u>66</u>	<u>470</u>	<u>480</u>	<u>7.51</u>	<u>20.0</u>	<u>424.5</u>	
<u>1016</u>	<u>80</u>	<u>690</u>	<u>640</u>	<u>7.48</u>	<u>20.0</u>	<u>420.8</u>	
<u>1021</u>							<u>Pump Off</u>

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)
<u>BMO-2010-3B</u>	<u>10:18</u>	<u>poly</u>	<u>250mL</u>	<u>1</u>	<u>30.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1-24-22
 Well ID: BMO-2010-3M Weather: clear, 70s
 ADWR No: 219969 Sampler: JA

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
<u>532</u>	<u>5</u>	2	0.16
		4	0.65
		<u>(5)</u>	<u>1.02</u>
		6	1.47
		8	2.61
		10	4.08
		16	10.44
		20	16.31
Static Water Level (ft bmp): <u>127.02</u> Casing Volume (gal): <u>413</u> x3 = <u>1,239</u> Total Volume Purged (gal): <u>1,323</u>		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
<u>10:30</u>	<u>Pump On</u>						
<u>11:15</u>	<u>45</u>	<u>7</u>	<u>315</u>	<u>7.56</u>	<u>21.4</u>	<u>380.1</u>	
<u>12:00</u>	<u>90</u>	<u>7</u>	<u>630</u>	<u>7.57</u>	<u>21.7</u>	<u>378.3</u>	
<u>12:45</u>	<u>135</u>	<u>7</u>	<u>945</u>	<u>7.56</u>	<u>21.8</u>	<u>381.2</u>	
<u>13:30</u>	<u>180</u>	<u>7</u>	<u>1,260</u>	<u>7.56</u>	<u>21.8</u>	<u>379.5</u>	
<u>13:39</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		Spigot <u>(a)</u> / near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2010-3M</u>	<u>13:33</u>	<u>poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 2-1-22
 Well ID: BMO-2012-1M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Stinson

WELL DATA

Well Depth (ft bis): <u>405</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>219.48</u>	4	0.65
Casing Volume (gal): <u>189.3</u> x3 = <u>568</u>	5	1.02
	6	1.47
	8	2.81
	10	4.08
Total Volume Purged (gal): <u>600</u>	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
<u>0700</u>	Pump On						
<u>0710</u>	<u>10</u>	<u>6</u>	<u>60</u>	<u>6.95</u>	<u>22.3</u>	<u>980</u>	
<u>0730</u>	<u>30</u>	<u>6</u>	<u>180</u>	<u>7.08</u>	<u>22.5</u>	<u>980</u>	
<u>0800</u>	<u>60</u>	<u>6</u>	<u>360</u>	<u>7.09</u>	<u>22.6</u>	<u>978</u>	
<u>0835</u>	<u>95</u>	<u>6</u>	<u>570</u>	<u>7.11</u>	<u>22.5</u>	<u>980</u>	
<u>0840</u>	<u>100</u>	<u>6</u>	<u>600</u>	<u>7.10</u>	<u>22.6</u>	<u>981</u>	
							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)
<u>BMO-2012-1M</u>	<u>0840</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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: 185L

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: BMG-2014-1BL Weather: mostly clear, 60s
 ADWR No: 917394 Sampler: JA

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
366	5	2	0.16
		4	0.65
		5	1.02
Static Water Level (ft bmp):	129.55	6	1.47
		8	2.61
Casing Volume (gal):	241 x3 = 724	10	4.08
		16	10.44
Total Volume Purged (gal):	1,005	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
13:07	Pump On						
13:27	20	15	300	7.24	21.1	724.5	
13:47	40	15	600	7.25	21.0	728.4	
14:07	60	15	900	7.26	21.0	726.1	
14:14							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 Y near wellhead			Other:	
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMG-2014-1BL	14:09	poly	300 mL	1	3000	VF	Y

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: BMO-2014-1B4 Weather: Mostly clear, 60s
 ADWR No: 917393 Sampler: DA

WELL DATA		
Well Depth (ft bls):	<u>273</u>	Casing Capacity
Casing Diameter (in):	<u>5</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>129.77</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>146</u> x3 = <u>438</u>	2
Total Volume Purged (gal):	<u>555</u>	4
		5
		6
		8
		10
		16
		20
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
<u>12:20</u>	<u>Pump On</u>						
<u>12:30</u>	<u>10</u>	<u>15</u>	<u>150</u>	<u>7.24</u>	<u>20.2</u>	<u>785.9</u>	
<u>12:40</u>	<u>20</u>	<u>15</u>	<u>300</u>	<u>7.25</u>	<u>20.2</u>	<u>767.7</u>	
<u>12:50</u>	<u>30</u>	<u>15</u>	<u>450</u>	<u>7.25</u>	<u>20.1</u>	<u>741.6</u>	
<u>12:57</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point: <u>Spigot (at) / near wellhead</u>				Other:			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2014-1B4</u>	<u>12:53</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: BMO-2014-2BL Weather: Clear 50
 ADWR No: 917452 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>396</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>132.83</u>	2	0.16
Casing Volume (gal): <u>268</u> x3 = <u>805</u>	4	0.65
Total Volume Purged (gal): <u>924</u>	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
<u>1010</u>	<u>Pump On</u>						
<u>1030</u>	<u>20</u>	<u>14</u>	<u>280</u>	<u>7.04</u>	<u>20.1</u>	<u>1169</u>	
<u>1050</u>	<u>40</u>	<u>14</u>	<u>560</u>	<u>7.06</u>	<u>20.2</u>	<u>1163</u>	
<u>1110</u>	<u>60</u>	<u>14</u>	<u>840</u>	<u>7.04</u>	<u>20.2</u>	<u>1161</u>	
<u>1116</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot@ / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2014-2BL</u>	<u>11:12</u>	<u>poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>VP</u>	<u>y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: BMO-2014-2BU Weather: clear, 50
 ADWR No: 917453 Sampler: JA

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
<u>276</u>	<u>5</u>	2	0.16
		4	0.65
		<u>(5)</u>	<u>(1.02)</u>
		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
<u>1121</u>	<u>Pump On</u>						
<u>1131</u>	<u>10</u>	<u>15</u>	<u>150</u>	<u>7.32</u>	<u>19.6</u>	<u>532.8</u>	
<u>1141</u>	<u>20</u>	<u>15</u>	<u>300</u>	<u>7.32</u>	<u>19.6</u>	<u>536.0</u>	
<u>1151</u>	<u>30</u>	<u>15</u>	<u>450</u>	<u>7.30</u>	<u>19.6</u>	<u>538.3</u>	
<u>1157</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point: <u>Spigot at / near wellhead</u>				Other:			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2014-2BU</u>	<u>1153</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>3000</u>	<u>MP</u>	<u>y</u>

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: 1/27/21
 Well ID: BMO-2014-3BL Weather: Clear, 40s
 ADWR No: 917527 Sampler: SA

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
<u>521</u>	<u>5</u>	2	0.16
		4	0.65
		<u>5</u>	<u>1.02</u>
		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
<u>0845</u>	<u>Pump On</u>						
<u>0915</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.18</u>	<u>20.9</u>	<u>411.7</u>	
<u>0945</u>	<u>60</u>	<u>14</u>	<u>840</u>	<u>7.15</u>	<u>21.0</u>	<u>412.0</u>	
<u>1015</u>	<u>90</u>	<u>14</u>	<u>1,260</u>	<u>7.12</u>	<u>21.0</u>	<u>404.8</u>	
<u>1023</u>							<u>Pump Off</u>

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)
<u>BMO-2014-3BL</u>	<u>10:17</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/27/22
 Well ID: BMO-2014-3B4 Weather: clear 50s
 ADWR No: 917494 Sampler: SA

WELL DATA			
Well Depth (ft bls):		Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
288		2	0.16
Casing Diameter (in):	5	4	0.65
Static Water Level (ft bmp):	146.24	5	1.02
Casing Volume (gal):	145 x3 = 435	6	1.47
Total Volume Purged (gal):	616	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
10:33	Pump On						
10:48	15	14	210	7.15	19.7	471.1	
11:03	30	14	420	7.15	19.8	467.6	
11:13	40	14	560	7.12	19.8	466.9	
11:17							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 <input checked="" type="checkbox"/> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2014-3B4	11:15	Poly	250ml	1	2000	VP	y

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/25/22
 Well ID: BMO-2014-4B Weather: Clear, 50s
 ADWR No: 917620 Sampler: JA

WELL DATA		
Well Depth (ft bls):	<u>258</u>	Casing Capacity
Casing Diameter (in):	<u>5</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>139.30</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>121</u> x3 = <u>363</u>	2
Total Volume Purged (gal):	<u>504</u>	4
		5
		6
		8
		10
		16
		20
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
<u>12:38</u>	Pump On						
<u>12:48</u>	<u>10</u>	<u>14</u>	<u>140</u>	<u>7.45</u>	<u>20.2</u>	<u>476.2</u>	
<u>12:58</u>	<u>20</u>	<u>14</u>	<u>280</u>	<u>7.42</u>	<u>20.1</u>	<u>476.6</u>	
<u>13:08</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.42</u>	<u>20.0</u>	<u>479.1</u>	
<u>13:14</u>							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 <u>(5)</u> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2014-4B</u>	<u>13:09</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/25/22
 Well ID: BMG-2014-48L Weather: clear, 50s
 ADWR No: 917619 Sampler: JH

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
<u>261</u>	<u>5</u>	2	0.16
		4	0.65
		<u>5</u>	<u>1.02</u>
		6	1.47
Static Water Level (ft bmp): <u>138.74</u>		8	2.61
Casing Volume (gal): <u>125</u> x3 = <u>375</u>		10	4.08
		16	10.44
Total Volume Purged (gal): <u>504</u>		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
<u>11:40</u>	<u>Pump On</u>						
<u>11:50</u>	<u>10</u>	<u>14</u>	<u>140</u>	<u>7.36</u>	<u>20.2</u>	<u>571.0</u>	
<u>12:00</u>	<u>20</u>	<u>14</u>	<u>280</u>	<u>7.42</u>	<u>20.3</u>	<u>607.5</u>	
<u>12:10</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.39</u>	<u>20.3</u>	<u>615.3</u>	
<u>12:16</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		Spigot <input checked="" type="checkbox"/> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMG-2014-48L</u>	<u>12:12</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>30.0</u>	<u>VP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/25/22
 Well ID: BMO-2015-1B Weather: clear, 50s
 ADWR No: 917622 Sampler: SA

WELL DATA		
Well Depth (ft bls):	<u>244</u>	Casing Capacity
Casing Diameter (in):	<u>5</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>135.13</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>111</u> x3 = <u>333</u>	2
Total Volume Purged (gal):	<u>532</u>	4
		5
		6
		8
		10
		16
		20
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
<u>0948</u>	Pump On						
<u>0958</u>	<u>10</u>	<u>14</u>	<u>140</u>	<u>7.29</u>	<u>19.6</u>	<u>730.0</u>	
<u>1008</u>	<u>20</u>	<u>14</u>	<u>280</u>	<u>7.32</u>	<u>19.7</u>	<u>724.9</u>	
<u>1018</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.35</u>	<u>19.5</u>	<u>721.3</u>	
<u>1026</u>							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 <input checked="" type="checkbox"/> / near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2015-1B</u>	<u>10:20</u>	<u>PO17</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>MP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/25/22
 Well ID: BMO-2015-1BL Weather: clear, 50s
 ADWR No: 917621 Sampler: JA

WELL DATA		
Well Depth (ft bls):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
241	2	0.16
Casing Diameter (in): 5	4	0.65
Static Water Level (ft bmp): 136.41	5	1.02
Casing Volume (gal): 107 x3 = 321	6	1.47
Total Volume Purged (gal): 435	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
10:31	Pump On						
10:41	10	15	150	7.27	19.9	832.8	
10:46	15	15	225	7.27	20.0	827.9	
10:53	22	15	330	7.26	20.0	824.8	
11:00							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 <input checked="" type="checkbox"/> / near wellhead				Other: _____			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
BMO-2015-1BL	10:55	Poly	250 mL	1	300 J	NP	y

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other: _____

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/25/22
 Well ID: BMO-2015-2B Weather: clear, 30s
 ADWR No: 917827 Sampler: SA

WELL DATA		
Well Depth (ft bls):	<u>268</u>	Casing Capacity
Casing Diameter (in):	<u>5</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>154.95</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>115</u> x3 = <u>346</u>	2 0.16
Total Volume Purged (gal):	<u>564</u>	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
<u>0741</u>	<u>Pump On</u>						
<u>0751</u>	<u>10</u>	<u>14</u>	<u>140</u>	<u>7.17</u>	<u>19.9</u>	<u>927.9</u>	
<u>0801</u>	<u>20</u>	<u>14</u>	<u>280</u>	<u>7.18</u>	<u>19.9</u>	<u>910.4</u>	
<u>0811</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.18</u>	<u>19.9</u>	<u>898.3</u>	
<u>0817</u>							<u>Pump Off</u>

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)
<u>BMO-2015-2B</u>	<u>08:13</u>	<u>poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>VP</u>	<u>Y</u>
<u>D4P20220125</u>	<u>12:00</u>	<u>poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>VP</u>	<u>Y</u>

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: 1/25/22
 Well ID: BMO-2015-2BL Weather: clear, 30s
 ADWR No: 917828 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>272</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>153.64</u>	2	0.16
Casing Volume (gal): <u>121</u> x3 = <u>363</u>	4	0.65
Total Volume Purged (gal): <u>742</u>	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
<u>0825</u>	Pump On						
<u>0840</u>	<u>15</u>	<u>14</u>	<u>210</u>	<u>7.13</u>	<u>20.1</u>	<u>969.3</u>	
<u>0855</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.12</u>	<u>20.1</u>	<u>955.1</u>	
<u>0910</u>	<u>45</u>	<u>14</u>	<u>630</u>	<u>7.11</u>	<u>20.1</u>	<u>944.2</u>	
<u>0918</u>							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: <u>Spigot at / near wellhead</u>				Other:			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2015-2BL</u>	<u>0912</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300°</u>	<u>NP</u>	<u>Y</u>

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: 2/8/22
 Well ID: COB MW-2 Weather: Plr, 40s
 ADWR No: 903984 Sampler: Gike

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
<u>162</u>	<u>4</u>	2	0.16
		<u>4</u>	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
<u>0943</u>	Pump On						
<u>0945</u>	<u>2</u>	<u>6</u>	<u>12</u>	<u>7.32</u>	<u>18.3</u>	<u>719.2</u>	
<u>0948</u>	<u>5</u>	<u>306</u>	<u>30</u>	<u>7.34</u>	<u>19.2</u>	<u>600.1</u>	
<u>0953</u>	<u>10</u>	<u>6</u>	<u>60</u>	<u>7.34</u>	<u>19.1</u>	<u>610.6</u>	
<u>0956</u>	<u>13</u>	<u>6</u>	<u>78</u>				<u>Sampled</u>
<u>0958</u>							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)
<u>COB-MW2</u>	<u>0956</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Filtered through water bong. No threaded faucet.

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-9-22
 Well ID: Cooper L Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA

Well Depth (ft bls): <u>220</u> Casing Diameter (in): <u>6</u> Static Water Level (ft bmp): <u>167.82</u> Casing Volume (gal): <u>x3 =</u> 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 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: 1/28/22
 Well ID: COOPER 988 Weather: clear, 40s, windy
 ADWR No: 032988 Sampler: JA

WELL DATA		
Well Depth (ft bls):	<u>600</u>	Casing Capacity
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>326.00</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>402 x3 = 1,206</u>	2 0.16
Total Volume Purged (gal):	<u>1,221</u>	4 0.65
		5 1.02
		6 <u>1.47</u>
		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
<u>10:30</u>	<u>Pump On</u>						
<u>11:00</u>	<u>30</u>	<u>11</u>	<u>330</u>	<u>7.93</u>	<u>14.3</u>	<u>399.1</u>	
<u>11:30</u>	<u>60</u>	<u>11</u>	<u>660</u>	<u>7.87</u>	<u>14.5</u>	<u>396.0</u>	
<u>12:00</u>	<u>90</u>	<u>11</u>	<u>990</u>	<u>7.82</u>	<u>15.0</u>	<u>392.2</u>	
<u>12:20</u>	<u>110</u>	<u>11</u>	<u>1,210</u>	<u>7.79</u>	<u>14.9</u>	<u>397.5</u>	
<u>12:21</u>							<u>Pump Off</u>

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: <u>Spigot on South house</u>		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>COOPER 988</u>	<u>12:21</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:
WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: Clearwater 1/28/22
 Well ID: Dodson Weather: Chr, Windy 50s
 ADWR No: 55-644927 Sampler: GR

WELL DATA		
Well Depth (ft bls): <u>200'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>91.68</u>	2	0.16
Casing Volume (gal): <u>20147 x3 = 60441</u>	4	0.65
Total Volume Purged (gal): <u>592</u>	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
<u>1141</u>	<u>Pump On</u>						
<u>1144</u>	<u>3</u>	<u>16</u>	<u>48</u>	<u>7.15</u>	<u>11.8</u>	<u>2523</u>	
<u>1154</u>	<u>13</u>	<u>16</u>	<u>208</u>	<u>7.20</u>	<u>17.7</u>	<u>2243</u>	
<u>1204</u>	<u>23</u>	<u>16</u>	<u>368</u>	<u>7.34</u>	<u>18.6</u>	<u>2146</u>	
<u>1210</u>	<u>29</u>	<u>16</u>	<u>464</u>	<u>7.33</u>	<u>19.6</u>	<u>2118</u>	
<u>1215</u>	<u>34</u>	<u>16</u>	<u>560</u>	<u>7.33</u>	<u>18.7</u>	<u>2131</u>	
<u>1217</u>			<u>592</u>				<u>Pump Off</u>

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)
<u>Dodson</u>	<u>1216</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:	

WELL PURGING INFORMATION	
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:	

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: ECHAVE Weather: mostly clear, 60s
 ADWR No: 219449 Sampler: JN

WELL DATA			
Well Depth (ft bls):	<u>345</u>	Casing Capacity	
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>222.93</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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						
	<u>W</u>	<u>L</u>	<u>C</u>				
							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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/8/22
 Well ID: Eppele 641 Weather: Clr 50s
 ADWR No: 805641 Sampler: GL

WELL DATA		
Well Depth (ft bls): <u>265</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>8</u>	2	0.16
Static Water Level (ft bmp): <u>28.02</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>818.619 x3 = 1856</u>	6	1.47
	<u>8</u>	2.61
Total Volume Purged (gal):	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
<u>1042</u>	<u>Pump On</u>						
<u>1047</u>	<u>5</u>	<u>7</u>	<u>35</u>	<u>7.46</u>	<u>16.7</u>	<u>575.9</u>	
<u>1056</u>	<u>14</u>	<u>7.5</u>	<u>97</u>	<u>7.42</u>	<u>19.8</u>	<u>579.7</u>	
<u>1122</u>	<u>40</u>	<u>7</u>	<u>279</u>	<u>7.40</u>	<u>19.5</u>	<u>578.3</u>	
<u>1141</u>	<u>59</u>	<u>7</u>		<u>7.402</u>	<u>19.8</u>	<u>579.1</u>	
<u>1149</u>				<u>7.45</u>	<u>20.1</u>	<u>582.0</u>	
<u>1151</u>							
							<u>Pump Off</u>

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)
<u>EPPELE</u>	<u>1151</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 150' x 12" per owner. Old 8" well in front of house. Depth unclear
Owner concerned about pump going dry and discharge volume.
Hard flow going to septic. Owner satisfied w/ his septic test.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: GARNER 357 557 Weather: Overcast 50s
 ADWR No: 558557 Sampler: GLK

WELL DATA		
Well Depth (ft bls): <u>300</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>204.16</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: GARNER 635 Weather: Overcast 50s
 ADWR No: 587635 Sampler: GR

WELL DATA		
Well Depth (ft bls): <u>680</u>	Casing Capacity	
Casing Diameter (in): <u>12"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>30206.06</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/27/22
 Well ID: GOAR RANCH Weather: Clear, 60s
 ADWR No: 610695 Sampler: JA

WELL DATA			
Well Depth (ft bls):	Casing Diameter (in):	Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
250	7	2	0.16
Static Water Level (ft bmp):	197.19	4	0.65
		5	1.02
Casing Volume (gal):	x3 =	6	1.47
		8	2.61
Total Volume Purged (gal):		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	L	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)
WLO							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-9-22
 Well ID: Hoban Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Storm

WELL DATA

Well Depth (ft bls): <u>300</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>176.25</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWL only

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/27/22
 Well ID: HOWARD NR Weather: clear, 60s
 ADWR No: NR Sampler: JA

WELL DATA			
Well Depth (ft bls):	<u>220</u>	Casing Capacity	
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>163.01</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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						
	<u>✓</u>	<u>L</u>	<u>8</u>				
							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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/25/22
 Well ID: KEEFER Weather: clear, 60s
 ADWR No: 209744 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>245</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>6</u>	2	0.16
Static Water Level (ft bmp): <u>147.14</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>144</u> x3 = <u>432</u>	8	2.61
	10	4.08
Total Volume Purged (gal):	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
<u>13:57</u>	<u>Pump On</u>						
<u>14:12</u>	<u>15</u>	<u>10</u>	<u>150</u>	<u>7.34</u>	<u>17.6</u>	<u>487.1</u>	
<u>14:27</u>	<u>30</u>	<u>10</u>	<u>300</u>	<u>7.35</u>	<u>18.3</u>	<u>495.2</u>	
<u>14:42</u>	<u>45</u>	<u>10</u>	<u>450</u>	<u>7.34</u>	<u>18.5</u>	<u>500.5</u>	
<u>14:47</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		Spigot <u>(a)</u> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>KEEFER</u>	<u>14:47</u>	<u>poly</u>	<u>250 ml</u>	<u>1</u>	<u>3000</u>	<u>MP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-14-22
 Well ID: LAPP-251 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Skinner

WELL DATA		Casing Capacity	
Well Depth (ft bls):		Nominal Size (Inches)	Gallons per Linear Foot
Casing Diameter (In):		2	0.16
Static Water Level (ft bmp):	<u>225.62</u>	4	0.65
Casing Volume (gal):	x3 =	6	1.02
		8	1.47
		10	2.81
Total Volume Purged (gal):		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 |
|--|
| <input type="checkbox"/> Water level measurement collected.
<input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead
<input type="checkbox"/> No water level measurement collected. Obstruction in well.
<input type="checkbox"/> No water level measurement collected. Well is pumping.
<input type="checkbox"/> Other: |

- | WELL PURGING INFORMATION |
|--|
| <input type="checkbox"/> Purged 3 well volumes and field parameters stabilized.
<input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized.
<input type="checkbox"/> Purged well until field parameters stabilized.
<input type="checkbox"/> Other: |

Additional Comments: _____

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-14-22
 Well ID: LAOD-435 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sumner

WELL DATA

Well Depth (ft bis):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in):	2	0.18
	4	0.65
	5	1.02
Static Water Level (ft bmp): <u>254.27</u>	6	1.47
	8	2.61
Casing Volume (gal): <u>x3 =</u>	10	4.08
Casing Volume = gallons/foot * water column (feet)		
Total Volume Purged (gal):		

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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-14-22
 Well ID: LADD-538 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA

Well Depth (ft bls):	Casing Capacity	
	Nominal Size (Inches)	Gallons per Linear Foot
Casing Diameter (in):	2	0.16
Static Water Level (ft bmp): <u>210.27</u>	4	0.65
Casing Volume (gal): <u>x3 =</u>	5	1.02
	6	1.47
	8	2.61
	10	4.08
Total Volume Purged (gal): <u>Casing Volume = gallons/foot * water column (feet)</u>		

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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-14-22
 Well ID: LADD-635 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sloman

WELL DATA		
Well Depth (ft b/s): _____	Casing Capacity	
Casing Diameter (in): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>No Access</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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 parameters stabilized.
 - Purged well until field parameters stabilized.
 - Other: _____

Additional Comments:

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-14-22
 Well ID: LA00-837 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sluiter

WELL DATA		
Well Depth (ft bbs):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in):	2	0.16
Static Water Level (ft bmp): <u>294.03</u>	4	0.66
Casing Volume (gal): _____ x3 =	5	1.02
	6	1.47
	8	2.61
	10	4.08
Total Volume Purged (gal): _____ 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 parameters stabilized.
 - Purged well until field parameters stabilized.
 - Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: _____ Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-14-22
 Well ID: LAD0-977 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Slurman

WELL DATA		
Well Depth (ft b1e): _____	Casing Capacity	
Casing Diameter (In): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>90.74</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
	5	1.02
	6	1.47
	8	2.61
	10	4.08
Total Volume Purged (gal): _____	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 |
|--|
| <input type="checkbox"/> Water level measurement collected.
<input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead
<input type="checkbox"/> No water level measurement collected. Obstruction in well.
<input type="checkbox"/> No water level measurement collected. Well is pumping.
<input type="checkbox"/> Other: _____ |

- | WELL PURGING INFORMATION |
|--|
| <input type="checkbox"/> Purged 3 well volumes and field parameters stabilized.
<input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized.
<input type="checkbox"/> Purged well until field parameters stabilized.
<input type="checkbox"/> Other: _____ |

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/27/22
 Well ID: MCCOMWELL 265 Weather: clear, 60s
 ADWR No: 539265 Sampler: JA

WELL DATA			
Well Depth (ft bls):	<u>216</u>	Casing Capacity	
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>169.37</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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						
	<u>W</u>	<u>L</u>	<u>O</u>				
							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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: N5D-02 Weather: clear, 36°
 ADWR No: 527587 Sampler: JA

WELL DATA			
Well Depth (ft bls):	<u>120</u>	Casing Capacity	
Casing Diameter (in):	<u>12</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>108.39</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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	L	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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: N5D-03 Weather: clear, 30,
 ADWR No: 527586 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>100</u>	Casing Capacity	
Casing Diameter (in): <u>12</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>93.66</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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	L	G				
							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)
<u>WLO</u>							

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:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: NWC-02 Weather: clear 40s
 ADWR No: 562944 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>312</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>173 42</u>	2	0.16
Casing Volume (gal): <u>204 x3 = 612</u>	4	0.65
Total Volume Purged (gal):	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
<u>08:45</u>	<u>Pump On</u>						
<u>08:50</u>	<u>5</u>	<u>90</u>	<u>450</u>	<u>7.54</u>	<u>19.1</u>	<u>422.2</u>	
<u>08:55</u>	<u>10</u>	<u>90</u>	<u>900</u>	<u>7.36</u>	<u>20.2</u>	<u>441.1</u>	
<u>09:00</u>	<u>15</u>	<u>90</u>	<u>1350</u>	<u>7.32</u>	<u>20.4</u>	<u>434.4</u>	
<u>09:01</u>	<u>16</u>	<u>90</u>	<u>1440</u>	<u>7.31</u>	<u>20.3</u>	<u>432.1</u>	
							<u>Pump Off</u>

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)
<u>NWC-02</u>	<u>0901</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>3000</u>	<u>NP</u>	<u>Y</u>

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 sample



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: NWC-03 CAP Weather: cloudy 56s
 ADWR No: 627684 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>179</u>	Casing Capacity	
Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>Dry</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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	L	U				
							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)
<u>WLU</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input checked="" type="checkbox"/> Other: <u>well is dry</u>

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLU</u>

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: NWC-04 Weather: clear, 40s
 ADWR No: 551349 Sampler: JA

WELL DATA		
Well Depth (ft bls):	<u>462</u>	Casing Capacity
Casing Diameter (in):	<u>10</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>IWL</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<u>0755</u>	<u>Pump On</u>						
<u>0800</u>	<u>5</u>	<u>15</u>	<u>75</u>	<u>7.23</u>	<u>23.7</u>	<u>141.5</u>	
<u>0805</u>	<u>10</u>	<u>15</u>	<u>150</u>	<u>7.23</u>	<u>23.7</u>	<u>136.2</u>	
<u>0810</u>	<u>15</u>	<u>15</u>	<u>225</u>	<u>7.22</u>	<u>23.7</u>	<u>139.5</u>	
							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		Spigot <input checked="" type="checkbox"/> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>NWC-04</u>	<u>08:12</u>	<u>poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>MP</u>	<u>y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input checked="" type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input checked="" type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Hand filtered sample. Secondary tube diameter too small for CCA sensor

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: NWC-06 Weather: clear, 40s
 ADWR No: 575700 Sampler: TH

WELL DATA		
Well Depth (ft bls): <u>340</u>	Casing Capacity	
Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>167.67</u>	2	0.16
Casing Volume (gal): <u>450</u> x3 = <u>1,350</u>	4	0.65
Total Volume Purged (gal):	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
<u>0722</u>	<u>Pump On</u>						
<u>0727</u>	<u>5</u>	<u>150</u>	<u>750</u>	<u>7.43</u>	<u>20.9</u>	<u>397.2</u>	
<u>0732</u>	<u>10</u>	<u>150</u>	<u>1,500</u>	<u>7.27</u>	<u>20.6</u>	<u>396.3</u>	
<u>0737</u>	<u>15</u>	<u>150</u>	<u>2,250</u>	<u>7.35</u>	<u>20.8</u>	<u>400.4</u>	
							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point: <u>Spigot @ / near wellhead</u>				Other:			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>NWC-06</u>	<u>0739</u>	<u>poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:	

WELL PURGING INFORMATION	
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:	

Additional Comments: Hand filtered sample



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: 02M05 Weather: Mostly clear, 60s
 ADWR No: 224745 Sampler: JA

WELL DATA			
Well Depth (ft bls):	<u>306</u>	Casing Capacity	
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>153.97</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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						
	<u>✓</u>	<u>L</u>	<u>0</u>				
							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)
<u>W0</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>W0</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: PANAGAKOS Weather: clr 70s
 ADWR No: 3576913 Sampler: BK

WELL DATA			
Well Depth (ft bls): <u>200</u>	Casing Capacity		
	Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>164.40</u>	2	0.16	
Casing Volume (gal): <u>93</u> x3 = <u>279</u>	4	0.65	
Total Volume Purged (gal): <u>351</u>	5	1.02	
	6	1.47	
	<u>8</u>	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
<u>1134</u>	<u>Pump On</u>						<u>Open spigot</u>
<u>1145</u>	<u>11</u>	<u>9</u>	<u>99</u>	<u>7.12</u>	<u>19.5</u>	<u>1139</u>	
<u>1156</u>	<u>22</u>	<u>9</u>	<u>198</u>	<u>7.24</u>	<u>22.5</u>	<u>1159</u>	
<u>1206</u>	<u>32</u>	<u>9</u>	<u>288</u>	<u>7.23</u>	<u>19.6</u>	<u>1169</u>	
<u>1211</u>	<u>37</u>	<u>9</u>	<u>333</u>	<u>7.23</u>	<u>19.5</u>	<u>1173</u>	
<u>1213</u>	<u>39</u>	<u>9</u>	<u>351</u>				
<u>1213</u>							<u>Pump Off</u>

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)
<u>PANAGAKOS</u>	<u>1213</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Sampled from spigot on back of house

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: PIOMKE 395 Weather: mostly clear, 60s
 ADWR No: 613395 Sampler: JH

WELL DATA			
Well Depth (ft bls):	<u>330</u>	Casing Capacity	
Casing Diameter (in):	<u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>161.55</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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
	✓	L	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)
<u>WCO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WCO</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: POWER 639 Weather: Clr 70s
 ADWR No: 222639 Sampler: GIL

WELL DATA		
Well Depth (ft bls): <u>480</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>298.54</u>	2	0.16
Casing Volume (gal): <u>266</u> x3 = <u>798</u>	4	0.65
Total Volume Purged (gal): <u>840</u>	5	1.02
	8	1.47
	10	2.61
	16	4.08
	20	10.44
		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
<u>1312</u>	<u>Pump On</u>						<u>Pump already on spigot opened</u>
<u>1320</u>	<u>8</u>	<u>14</u>	<u>112</u>	<u>8.05</u>	<u>21.7</u>	<u>415.0</u>	
<u>1330</u>	<u>18</u>	<u>13</u>	<u>242</u>	<u>7.86</u>	<u>21.3</u>	<u>530.7</u>	
<u>1340</u>	<u>28</u>	<u>13</u>	<u>372</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<u>1350</u>	<u>38</u>	<u>13</u>	<u>502</u>	<u>7.64</u>	<u>20.7</u>	<u>680.3</u>	
<u>1400</u>	<u>48</u>	<u>13</u>	<u>632</u>	<u>7.72</u>	<u>21.3</u>	<u>723.9</u>	
<u>1410</u>	<u>58</u>	<u>13</u>	<u>762</u>	<u>7.64</u>	<u>19.8</u>	<u>773.5</u>	
<u>1416</u>	<u>64</u>	<u>13</u>	<u>840</u>				
<u>1416</u>			<u>840</u>				<u>Pump Off</u>

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)
	<u>1416</u>						

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:
No leak from pressure tank. Flowrate higher than last sampling



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/27/22
 Well ID: RAMIREZ Weather: clear, 60s
 ADWR No: 216925 Sampler: JA

WELL DATA		
Well Depth (ft bls):	<u>300</u>	Casing Capacity
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>171.82</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: ROGERS 596 Weather: Clr 60s
 ADWR No: 573596(?) Sampler: GK

WELL DATA		
Well Depth (ft bls): <u>300</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>145.57</u>	2	0.16
Casing Volume (gal): <u>228</u> $x3 = 684$	4	0.65
Total Volume Purged (gal): <u>798</u>	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
<u>1444</u>	<u>Pump On</u>						
<u>1454</u>	<u>10</u>	<u>5</u>	<u>50</u>	<u>6.89</u>	<u>15.7</u>	<u>1556</u>	
<u>1520</u>	<u>36</u>	<u>5</u>	<u>180</u>	<u>-</u>	<u>-</u>	<u>-</u>	
<u>1550</u>	<u>66</u>	<u>6</u>	<u>360</u>	<u>6.89</u>	<u>17.9</u>	<u>1573</u>	
<u>1610</u>	<u>86</u>	<u>6</u>	<u>480</u>	<u>6.88</u>	<u>18.4</u>	<u>1575</u>	
<u>1640</u>	<u>116</u>	<u>6</u>	<u>780</u>	<u>6.93</u>	<u>17.9</u>	<u>1537</u>	
<u>1643</u>			<u>798</u>				<u>Pump Off</u>

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)
<u>ROGERS 596</u>	<u>1643</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: RODGERS E Weather: Overcast 50s
 ADWR No: 216018 Sampler: Gill

WELL DATA			
Well Depth (ft bls): <u>285</u> Casing Diameter (in): <u>6</u> Static Water Level (ft bmp): <u>162.24</u> Casing Volume (gal): <u>181</u> x3 = <u>543</u> 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
<u>1101</u>	<u>Pump On</u>						
<u>1115</u>	<u>14</u>	<u>13</u>	<u>182</u>	<u>7.46</u>	<u>19.5</u>	<u>473.2</u>	
<u>1130</u>	<u>29</u>	<u>13</u>	<u>377</u>	<u>7.47</u>	<u>20.8</u>	<u>459.5</u>	
<u>1145</u>	<u>44</u>	<u>13</u>	<u>572</u>	<u>7.46</u>	<u>20.4</u>	<u>455.1</u>	
<u>1154</u>							<u>Pump Off</u>

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)
<u>RODGERS E</u>	<u>1154</u>	<u>Ply</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized <input type="checkbox"/> Other: _____

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: Overcast 50s, 2/10/22
 Well ID: RUIZ 146 Weather:
 ADWR No: 232146 Sampler: Git

WELL DATA		
Well Depth (ft bls): <u>500</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
	2	0.16
Static Water Level (ft bmp): <u>302.53</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>291</u> x3 = <u>874</u>	6	1.47
	8	2.61
Total Volume Purged (gal): <u>72** (~140)</u>	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
<u>1338</u>	<u>Pump On</u>						
<u>1341</u>	<u>3</u>	<u>4</u>	<u>12</u>	<u>7.36</u>	<u>19.2</u>	<u>588.5</u>	
<u>1344</u>	<u>6</u>	<u>5</u>	<u>27</u>	<u>7.42</u>	<u>20.1</u>	<u>589.4</u>	
<u>1346</u>	<u>8</u>	<u>5</u>	<u>37</u>	<u>7.34</u>	<u>20.5</u>	<u>593.6</u>	
<u>1348</u>	<u>10</u>	<u>5</u>	<u>47</u>	<u>7.32</u>	<u>20.8</u>	<u>610638.3</u>	
<u>1350</u>	<u>12</u>	<u>5</u>	<u>57</u>	<u>7.32</u>	<u>20.4</u>	<u>618.3*</u>	
<u>1353</u>			<u>72</u>				<u>Pump Off</u>

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)
<u>RUIZ 146</u>	<u>1353</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.6</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/>	Water level measurement collected.
<input type="checkbox"/>	No water level measurement collected. No access to wellhead/No port in wellhead
<input type="checkbox"/>	No water level measurement collected. Obstruction in well
<input type="checkbox"/>	No water level measurement collected. Well is pumping.
<input type="checkbox"/>	Other:

WELL PURGING INFORMATION	
<input type="checkbox"/>	Purged 3 well volumes and field parameters stabilized.
<input type="checkbox"/>	Purged 3 well volumes based on previous water level and field parameters stabilized.
<input checked="" type="checkbox"/>	Purged well until field parameters stabilized.
<input type="checkbox"/>	Other:

Additional Comments:
* Cond kept rising, but had to sample to prevent overflow of storage tank
** 1/2 flow goes to storage tank (~10 gpm total)

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: SCHWARTZ Weather: Overcast 40s
 ADWR No: 210865 Sampler: GR

WELL DATA		
Well Depth (ft bls): <u>305</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>134.83</u>	2	0.16
Casing Volume (gal): <u>170250 x3 = 511750</u>	4	0.65
Total Volume Purged (gal): <u>864</u>	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
<u>0908</u>	<u>Pump On</u>						
<u>0918</u>	<u>10</u>	<u>12</u>	<u>120</u>	<u>7.35</u>	<u>18.2</u>	<u>704.5</u>	
<u>0928</u>	<u>20</u>	<u>12</u>	<u>240</u>	<u>7.39</u>	<u>18.1</u>	<u>712.9</u>	
<u>0938</u>	<u>30</u>	<u>12</u>	<u>360</u>	<u>7.37</u>	<u>19.0</u>	<u>721.7</u>	
<u>0955</u>	<u>47</u>	<u>12</u>	<u>564</u>	<u>7.37</u>	<u>18.6</u>	<u>731.6</u>	
<u>1010</u>	<u>62</u>	<u>12</u>	<u>744</u>	<u>7.38</u>	<u>17.3</u>	<u>732.7</u>	
<u>1020</u>	<u>72</u>		<u>864</u>				<u>Pump Off</u>

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)
<u>SCHWARTZ</u>	<u>1020</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 1/28/22
 Well ID: Stephens Weather: clr. Windy 50's
 ADWR No: 808560 Sampler: Bill

WELL DATA		
Well Depth (ft bls):	<u>N/A</u>	Casing Capacity
Casing Diameter (in):		Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>54.90</u>	2 0.16
Casing Volume (gal):	x3 =	4 0.65
Total Volume Purged (gal):		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 |
|--|
| <input type="checkbox"/> Water level measurement collected.
<input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead
<input type="checkbox"/> No water level measurement collected. Obstruction in well.
<input type="checkbox"/> No water level measurement collected. Well is pumping.
<input type="checkbox"/> Other: |

- | WELL PURGING INFORMATION |
|--|
| <input type="checkbox"/> Purged 3 well volumes and field parameters stabilized.
<input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized.
<input type="checkbox"/> Purged well until field parameters stabilized.
<input type="checkbox"/> Other: |

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/31/22
 Well ID: THOMPSON 151 Weather: Clr 70s
 ADWR No: 612151 Sampler: Gal

WELL DATA			
Well Depth (ft bls):	<u>210</u>	Casing Capacity	
Casing Diameter (in):	<u>7</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>IWL</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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: Obstruction at 161' bmp MP TOC

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-10-22
 Well ID: TM-2A Weather: Sunny
 ADWR No: _____ Sampler: Christopher J. Storm

WELL DATA

Well Depth (ft bls): <u>925</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>338.70</u> Casing Volume (gal): <u>x3 =</u> 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 parameters 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: 3-10-22
 Well ID: TM-6 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls): <u>200</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>163.86</u> Casing Volume (gal): <u>x3 =</u> 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 parameters 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: 2-1-22
 Well ID: TM-7 Weather: Partly Cloudy
 ADWR No: _____ Sampler: Christopher & Shuman

WELL DATA

Well Depth (ft bbs): <u>350</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>4</u>	2	0.16
Static Water Level (ft bmp): <u>338.91</u>	4	0.65
Casing Volume (gal): <u>7.2 x3 = 21.6</u>	5	1.02
	6	1.47
	8	2.61
	10	4.08
Casing Volume = gallons/foot * water column (feet)		
Total Volume Purged (gal): _____		

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
<u>1300</u>	Pump On						
<u>1302</u>	<u>2</u>	<u>8</u>	<u>16</u>	<u>7.29</u>	<u>21.0</u>	<u>619</u>	
<u>1312</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>			
<u>1314</u>	<u>4</u>	<u>8</u>	<u>32</u>	<u>7.23</u>	<u>20.9</u>	<u>615</u>	
<u>1324</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>			
<u>1326</u>	<u>6</u>	<u>8</u>	<u>48</u>	<u>7.27</u>	<u>20.8</u>	<u>620</u>	
<u>1336</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>			
<u>1338</u>	<u>8</u>	<u>8</u>	<u>64</u>	<u>7.26</u>	<u>20.7</u>	<u>618</u>	
							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)
<u>TM-7</u>	<u>1338</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ju</u>	<u>✓</u>

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: Clear Creek method

Additional Comments: 11.1

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: Clk 70's
 Well ID: THOMPSON 341 Weather: ↓ 1/31/22
 ADWR No: 218341 Sampler: Gile

WELL DATA		
Well Depth (ft bls): <u>285</u>	Casing Capacity	
Casing Diameter (in): <u>7</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>173.19</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____

Sampled from TOC after removing vent assembly

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1-24-22
 Well ID: TM-10 45BP Weather: clear, 50s
 ADWR No: 522696 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>290</u>	Casing Capacity	
Casing Diameter (in): <u>4</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>258.46</u>	2	0.16
Casing Volume (gal): <u>21</u> x3 = <u>63</u>	④	0.65
Total Volume Purged (gal): <u>200</u>	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
<u>1425</u>	Pump On						
<u>1430</u>	<u>5</u>	<u>10</u>	<u>50</u>	<u>7.67</u>	<u>20.2</u>	<u>361.9</u>	<u>clear water at depth</u>
<u>1435</u>	<u>10</u>	<u>10</u>	<u>100</u>	<u>7.72</u>	<u>20.4</u>	<u>363.1</u>	<u>(cloudy, brown, still steady, clear)</u>
<u>1440</u>	<u>15</u>	<u>10</u>	<u>150</u>	<u>7.72</u>	<u>20.7</u>	<u>363.0</u>	<u>clear</u>
<u>1445</u>	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: <u>PVC pipe at wellhead</u>		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>TM-10 45BP</u>	<u>14:42</u>	<u>poly</u>	<u>250ml</u>	<u>1</u>	<u>3000</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-10-22
 Well ID: TM-16 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sherman

WELL DATA

Well Depth (ft bls): <u>115</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>61.19</u> Casing Volume (gal): <u>x3 =</u> Total Volume Purged (gal): _____	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
	2	0.16
	4	0.85
	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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: Suck only



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 3-10-22
 Well ID: TM-47 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Forman

WELL DATA

Well Depth (ft bls): <u>250</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>223.20</u> Casing Volume (gal): <u>x3 =</u> 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 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: 2/1/22
 Well ID: TVI-236 Weather: cloudy, 50°
 ADWR No: 802236 Sampler: JH

WELL DATA			
Well Depth (ft bls): <u>222</u>	Casing Capacity		
Casing Diameter (in): <u>12</u>	Nominal Size (inches)	Gallons per Linear Foot	
Static Water Level (ft bmp): <u>133.47</u>	2	0.16	
Casing Volume (gal): <u>x3 =</u>	4	0.65	
Total Volume Purged (gal):	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 e l l
							I m p o u n c a b l e
							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)
<u>W10</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>W10</u>

Additional Comments: well inoperable - power cut

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/26/22
 Well ID: TVE-713 Weather: clear 70s
 ADWR No: 567713 Sampler: JA

WELL DATA		
Well Depth (ft b/s): <u>200</u>	Casing Capacity	
Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>137.84</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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						
	✓	L	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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 2/1/22
 Well ID: WEED Weather: cloudy, 50°
 ADWR No: 544535 Sampler: JA

WELL DATA			
Well Depth (ft bls):	<u>320</u>	Casing Capacity	
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>IWL</u>	2	0.16
Casing Volume (gal):	<u>x3 =</u>	4	0.65
Total Volume Purged (gal):		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
<u>1008</u>	<u>Pump On</u>						
<u>1010</u>	<u>2</u>	<u>3*</u>		<u>7.57</u>	<u>19.8</u>	<u>379.2</u>	
<u>1011</u>	<u>3</u>	<u>3</u>		<u>7.65</u>	<u>20.1</u>	<u>377.3</u>	
<u>1013</u>	<u>4</u>	<u>3</u>		<u>7.62</u>	<u>20.1</u>	<u>377.2</u>	
							<u>Pump Off</u>

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)
<u>WEED</u>	<u>10:14</u>	<u>poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input type="checkbox"/> Water level measurement collected. <input checked="" type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:	

WELL PURGING INFORMATION	
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input checked="" type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:	

Additional Comments: * Additional flow going to storage tank



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/28/22
 Well ID: WEISS KOPF 802 Weather: clear, 40s, windy
 ADWR No: 641802 Sampler: JA

WELL DATA		
Well Depth (ft bls):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
200	2	0.16
Casing Diameter (in): 6	4	0.65
Static Water Level (ft bmp): 156.25	5	1.02
Casing Volume (gal): x3 =	6	1.47
Total Volume Purged (gal):	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	L	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)
WLO							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 1/28/22
 Well ID: ZANDER Weather: clear, 40s, windy
 ADWR No: 205126 Sampler: JA

WELL DATA		
Well Depth (ft bls): <u>280</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>157.46</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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						
	<u>W</u>	<u>L</u>	<u>O</u>				
							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)
<u>wLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>wLO</u>

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 5-3-22
 Well ID: NWC-04 Weather: pt clouds, 70s
 ADWR No: 551849 Sampler: JA

WELL DATA			
Well Depth (ft bls):		Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
462		2	0.16
Casing Diameter (in):	10	4	0.65
Static Water Level (ft bmp):	IWL	5	1.02
		6	1.47
Casing Volume (gal):	x3 =	8	2.61
		10	4.08
Total Volume Purged (gal):		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
09:00	Pump On						
09:05		20	100	7.36	23.7	850.0	
09:10			200	7.41	24.1	850.0	
09:15			300	7.47	24.1	850.7	
							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 <input checked="" type="checkbox"/> at / near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
NWC-04	09:17	Poly	250 mL	1	300.0	NA	Y

WATER LEVEL MEASUREMENT COLLECTION
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input checked="" type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input checked="" type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Hand filtered sample

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/11/22
 Well ID: ANDERSON 396 Weather: Clear 90s
 ADWR No: 613396 Sampler: GK

WELL DATA		
Well Depth (ft bls): <u>285</u>	Casing Capacity	
Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>158.29</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
							<div style="font-size: 2em; font-family: cursive;">Well</div> <div style="font-size: 3em; font-family: cursive; margin-top: 20px;">Imperable</div>
							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: WIO

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/11/22
 Well ID: ANDERSON 458 Weather: Clear 90s
 ADWR No: 221458 Sampler: GK

WELL DATA		
Well Depth (ft bls): <u>734</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>170.67</u>	2	0.16
Casing Volume (gal): <u>583574</u> x3 = <u>1732</u> <u>16891690</u>	4	0.65
Total Volume Purged (gal): <u>1900</u>	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
<u>1105</u>	<u>Pump On</u>						
<u>1110</u>	<u>5</u>	<u>10</u>	<u>50</u>	<u>7.98</u>	<u>24.5</u>	<u>783.9</u>	
<u>1130</u>	<u>25</u>	<u>10</u>	<u>250</u>	<u>8.09</u>	<u>26.3</u>	<u>397.9</u>	
<u>1200</u>	<u>55</u>	<u>10</u>	<u>550</u>	<u>8.07</u>	<u>27.3</u>	<u>391.9</u>	
<u>1240</u>	<u>95</u>	<u>10</u>	<u>950</u>	<u>8.08</u>	<u>28.4</u>	<u>392.2</u>	
<u>1320</u>	<u>135</u>	<u>10</u>	<u>1350</u>	<u>8.09</u>	<u>29.1</u>	<u>397.4</u>	
<u>1350</u>	<u>165</u>	<u>10</u>	<u>1650</u>	<u>8.07</u>	<u>28.2</u>	<u>396.3</u>	
<u>1415</u>	<u>190</u>	<u>10</u>	<u>1900</u>	<u>8.05</u>	<u>26.3</u>	<u>392.6</u>	
							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at</u> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>ANDERSON 458</u>	<u>1418</u>	<u>POLY</u>	<u>250mL</u>	<u>1</u>	<u>300.8</u>	<u>NP</u>	<u>Y</u>

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: 7/18/22
 Well ID: AWC-02 Weather: clear 90s
 ADWR No: 616586 Sampler: GM

WELL DATA			
Well Depth (ft bls):	<u>333</u>	Casing Capacity	
Casing Diameter (in):	<u>20</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>131.38</u>	2	0.16
Casing Volume (gal):	<u>3,289</u> x3 = <u>9866</u>	4	0.65
Total Volume Purged (gal):		5	1.02
		6	1.47
		8	2.61
		10	4.08
		16	10.44
		<u>20</u>	<u>16.31</u>
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
<u>1130</u>	<u>Pump On</u>						
<u>1200</u>	<u>30</u>	<u>95</u>	<u>2850</u>	<u>7.61</u>	<u>24.6</u>	<u>506.1</u>	
<u>1236</u>	<u>60</u>	<u>95</u>	<u>5,700</u>	<u>7.49</u>	<u>24.5</u>	<u>506.9</u>	
<u>1300</u>	<u>90</u>	<u>95</u>	<u>8,550</u>	<u>7.46</u>	<u>24.5</u>	<u>501.5</u>	
<u>1330</u>	<u>120</u>	<u>95</u>	<u>11,400</u>	<u>7.43</u>	<u>25.2</u>	<u>505.9</u>	
							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)
<u>AWC-02</u>	<u>1332</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: vacuum filtered



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/18/22
 Well ID: AWC-03 Weather: Clear 90s
 ADWR No: 616585 Sampler: GAC

WELL DATA		
Well Depth (ft bls): <u>270</u>	Casing Capacity	
Casing Diameter (in): <u>16</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>122.00*</u>	2	0.16
Casing Volume (gal): <u>1545</u> x3 = <u>4635</u>	4	0.65
Total Volume Purged (gal):	5	1.02
	6	1.47
	8	2.61
	10	4.08
	<u>16</u>	<u>10.44</u>
	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
<u>1020</u>	Pump On						
<u>1025</u>	<u>5</u>	<u>670</u>	<u>3,350</u>	<u>7.57</u>	<u>23.8</u>	<u>533.2</u>	
<u>1030</u>	<u>10</u>	<u>670</u>	<u>6,700</u>	<u>7.49</u>	<u>23.0</u>	<u>530.1</u>	
<u>1035</u>	<u>15</u>	<u>670</u>		<u>7.61</u>	<u>22.5</u>	<u>527.3</u>	
							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)
<u>AWC-03</u>	<u>1037</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Too narrow for our sondes. Use AWC WL from 7/15

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: * Taken by AWC Friday (7/15)
Vacuum filtered

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/18/22
 Well ID: AWC-04 Weather: Clear 90s
 ADWR No: 616584 Sampler: GM

WELL DATA		
Well Depth (ft bls): <u>337</u>	Casing Capacity	
Casing Diameter (in): <u>16</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>123.88</u>	2	0.16
Casing Volume (gal): <u>2,224</u> $x3 = 6,672$	4	0.65
Total Volume Purged (gal): _____	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
<u>1100</u>	Pump On						
<u>1105</u>	<u>5</u>	<u>830</u>	<u>4,150</u>	<u>7.43</u>	<u>23.2</u>	<u>677.0</u>	
<u>1108</u>	<u>8</u>	<u>830</u>		<u>7.21</u>	<u>22.2</u>	<u>681.5</u>	
<u>1110</u>	<u>10</u>	<u>830</u>	<u>8,300</u>	<u>7.16</u>	<u>21.3</u>	<u>683.9</u>	
<u>1112</u>	<u>12</u>	<u>830</u>		<u>7.15</u>	<u>21.5</u>	<u>684.9</u>	
							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)
<u>AWC-04</u>	<u>1115</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Vacuum filtered



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/18/22
 Well ID: AWC-05 Weather: Clear 90s
 ADWR No: 590620 Sampler: GDL

WELL DATA		
Well Depth (ft bls): <u>1183</u>	Casing Capacity	
Casing Diameter (in): <u>16</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>110.84</u>	2	0.16
Casing Volume (gal): <u>10,357</u> x3 = <u>31,070</u>	4	0.65
Total Volume Purged (gal):	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
<u>0850</u>	<u>0900</u>	Pump On					
	<u>15</u>	<u>620</u>	<u>9,300</u>	<u>7.54</u>	<u>22.3</u>	<u>460.0</u>	
	<u>30</u>	<u>620</u>	<u>18,600</u>	<u>7.54</u>	<u>23.6</u>	<u>457.1</u>	
	<u>45</u>	<u>620</u>	<u>27,900</u>	<u>7.57</u>	<u>23.1</u>	<u>451.4</u>	
	<u>60</u>			<u>7.57</u>	<u>23.4</u>	<u>448.9</u>	
							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)
<u>AWC-02</u>	<u>0952</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>3000</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Vacuum filtered.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/11/2022
 Well ID: BANKS-986 Weather: 95°, Light Rain
 ADWR No: 647986 Sampler: 53

WELL DATA		
Well Depth (ft bls): <u>435'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>237.28' (from 987)</u>	2	0.16
Casing Volume (gal): <u>290.65 x3 = 872</u>	4	0.65
Total Volume Purged (gal): <u>900</u>	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
<u>1312</u>	<u>Pump On</u>						
<u>1325</u>	<u>3</u>	<u>6</u>	<u>18</u>	<u>7.68</u>	<u>21.6</u>	<u>996.9</u>	
<u>1338</u>	<u>26</u>	<u>6</u>	<u>156</u>	<u>7.59</u>	<u>22.5</u>	<u>973.2</u>	
<u>1343</u>	<u>31</u>	<u>6</u>	<u>186</u>	<u>7.59</u>	<u>21.7</u>	<u>971.2</u>	
<u>1403</u>	<u>51</u>	<u>6</u>	<u>306</u>	<u>7.59</u>	<u>22.3</u>	<u>929.1</u>	
<u>1502</u>	<u>110</u>	<u>6</u>	<u>660</u>	<u>7.47</u>	<u>21.3</u>	<u>923.9</u>	
<u>1532</u>	<u>140</u>	<u>6</u>	<u>840</u>	<u>7.56</u>	<u>21.5</u>	<u>919.5</u>	
<u>1534</u>	<u>144</u>	<u>6</u>	<u>864</u>	<u>7.50</u>	<u>21.1</u>	<u>924.5</u>	
<u>1536</u>	<u>146</u>	<u>6</u>	<u>876</u>	<u>7.50</u>	<u>21.1</u>	<u>920.5</u>	
<u>1538</u>	<u>148</u>	<u>6</u>	<u>888</u>	<u>7.49</u>	<u>21.0</u>	<u>920.7</u>	<u>Pump Off 1540</u>

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

SAMPLE INFORMATION							
Sample Collection Point: <u>Spigot at / near wellhead</u>		Other:					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BANKS-986</u>	<u>1540</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

- 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 obtained from BANKS-987. This well is obstructed and 140'.

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/16/2022
 Well ID: BANKS - 987 Weather: 95° F, Light Rain
 ADWR No: _____ Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>339</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>237.28'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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						
	<u>WLO</u>						
							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)
<u>WLO</u>							

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:



Groundwater Sampling Form

Project No: CC18.1080.00

Client: Freeport Copper Queen Branch

Task No: 2

Date: 7/6/2022

Well ID: BARTON -919

Weather: 92° & Sunny

ADWR No: 644919

Sampler: SS

WELL DATA

Well Depth (ft bls): <u>130'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): _____	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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: <u>Spigot at / near wellhead</u>		Other: _____					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>wlo</u>							

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: Obstruction past 30'. Recommend removal of well from schedule.

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-14-21
 Well ID: BMO-2008-16 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA

Well Depth (ft bls): <u>310</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>79.60</u> Casing Volume (gal): <u>235</u> x3 = <u>705</u> Total Volume Purged (gal): <u>747</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (Inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.65</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> <p style="text-align: center;">Casing Volume = gallons/foot * water column (feet)</p>	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 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																

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
<u>0530</u>	<u>Pump On</u>						
<u>0600</u>	<u>30</u>	<u>8.3</u>	<u>249</u>	<u>7.19</u>	<u>21.9</u>	<u>886</u>	
<u>0620</u>	<u>50</u>	<u>8.3</u>	<u>415</u>	<u>7.15</u>	<u>21.8</u>	<u>890</u>	
<u>0640</u>	<u>70</u>	<u>8.3</u>	<u>581</u>	<u>7.13</u>	<u>21.9</u>	<u>888</u>	
<u>0700</u>	<u>90</u>	<u>8.3</u>	<u>747</u>	<u>7.11</u>	<u>21.9</u>	<u>887</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-16</u>	<u>0700</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>La</u>	<u>X</u>

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: 230.4

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 8-1-22
 Well ID: BMO-2008-3B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Stevan

WELL DATA			
Well Depth (ft bis):	<u>260</u>	Casing Capacity	
Casing Diameter (in):	<u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp):	<u>152.68</u>	2	0.16
Casing Volume (gal):	<u>109.4 x3 = 328.3</u>	4	0.65
Total Volume Purged (gal):	<u>540</u>	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
<u>0810</u>	Pump On						
<u>0820</u>	<u>10</u>	<u>27</u>	<u>135</u>	<u>7.31</u>	<u>21.9</u>	<u>739</u>	
<u>0825</u>	<u>15</u>	<u>22</u>	<u>405</u>	<u>7.34</u>	<u>21.8</u>	<u>736</u>	
<u>0830</u>	<u>20</u>	<u>27</u>	<u>540</u>	<u>7.30</u>	<u>21.9</u>	<u>735</u>	
							Pump Off

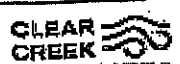
FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm)

SAMPLE INFORMATION							
Sample Collection Point:							
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2008-3B</u>	<u>0830</u>	<u>PL</u>	<u>251</u>	<u>1</u>	<u>300</u>	<u>TCI</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other: _____

Additional Comments: 107.33



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/1/2022
 Well ID: BMO-2008-4B Weather: 86° F Mostly Sunny
 ADWR No: 910096 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>610'</u>	Casing Capacity
Casing Diameter (in):	<u>5"</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>143.09'</u>	2 0.16
Casing Volume (gal):	<u>476.25x3 = 1429</u>	4 0.65
Total Volume Purged (gal):	<u>1450</u>	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
<u>1504</u>	<u>Pump On</u>						
<u>1517</u>	<u>13</u>	<u>10*</u>	<u>130</u>	<u>8.16</u>	<u>23.6</u>	<u>315.6</u>	
<u>1615</u>	<u>71</u>	<u>10*</u>	<u>710</u>	<u>7.82</u>	<u>25.1</u>	<u>378.4</u>	
<u>1651</u>	<u>107</u>	<u>10*</u>	<u>1070</u>	<u>7.76</u>	<u>24.5</u>	<u>378.5</u>	
<u>1704</u>	<u>120</u>	<u>10*</u>	<u>1200</u>	<u>7.61</u>	<u>23.7</u>	<u>380.4</u>	
<u>1716</u>	<u>131</u>	<u>10*</u>	<u>1310</u>	<u>7.59</u>	<u>23.7</u>	<u>379.7</u>	
<u>1726</u>	<u>142</u>	<u>10*</u>	<u>1420</u>	<u>7.61</u>	<u>23.2</u>	<u>381.2</u>	
							<u>Pump Off 1730</u>

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)
<u>BMO-2008-4B</u>	<u>1729</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: * 5 gpm at hose end. Losing 5 gpm at well head

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-11-22
 Well ID: BMO-2008-5B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Slueman

WELL DATA

Well Depth (ft bls): <u>285</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>156.37</u> Casing Volume (gal): <u>131.2 x3 = 394</u> Total Volume Purged (gal): <u>675</u>	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
<u>1100</u>	<u>Pump On</u>						
<u>1105</u>	<u>5</u>	<u>27</u>	<u>135</u>	<u>6.91</u>	<u>22.3</u>	<u>842</u>	
<u>1115</u>	<u>15</u>	<u>27</u>	<u>405</u>	<u>6.94</u>	<u>22.2</u>	<u>840</u>	
<u>1125</u>	<u>25</u>	<u>27</u>	<u>675</u>	<u>6.92</u>	<u>22.2</u>	<u>844</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-5B</u>	<u>1125</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>POE</u>	<u>Y</u>

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: 1127



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-11-22
 Well ID: BMO-2008-5M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Skovron

WELL DATA

Well Depth (ft bis): <u>450</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>157.72</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>298.1</u> x3 = <u>894.3</u>	6	1.47
	8	2.61
Total Volume Purged (gal): <u>990</u>	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
<u>0945</u>	<u>Pump On</u>						
<u>1010</u>	<u>25</u>	<u>18</u>	<u>450</u>	<u>7.28</u>	<u>23.0</u>	<u>6.88</u>	
<u>1030</u>	<u>45</u>	<u>18</u>	<u>810</u>	<u>7.24</u>	<u>22.8</u>	<u>6.91</u>	
<u>1040</u>	<u>55</u>	<u>18</u>	<u>990</u>	<u>7.23</u>	<u>22.8</u>	<u>6.93</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-5M</u>	<u>1040</u>	<u>PL</u>	<u>250</u>	<u>PL</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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: 291.28

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-11-22
 Well ID: BMO-2008-6B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA

Well Depth (ft bis): <u>265</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>201.19</u> Casing Volume (gal): <u>65</u> x3 = <u>195</u> Total Volume Purged (gal): <u>225</u>	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
<u>0830</u>	Pump On						
<u>0845</u>	<u>15</u>	<u>5.1</u>	<u>75</u>	<u>7.09</u>	<u>22.3</u>	<u>288</u>	
<u>0900</u>	<u>30</u>	<u>5.1</u>	<u>150</u>	<u>7.06</u>	<u>22.4</u>	<u>291</u>	
<u>0915</u>	<u>45</u>	<u>5.1</u>	<u>225</u>	<u>7.09</u>	<u>22.2</u>	<u>290</u>	
							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)
<u>BMO-2008-6B</u>	<u>0915</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>✓</u>

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: 63.81

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-11-27
 Well ID: BMO-2008-6M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA

Well Depth (ft bls): <u>450</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>200.38</u> Casing Volume (gal): <u>254.6 x3 = 763.8</u> Total Volume Purged (gal): <u>840</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
	2	0.16
	4	0.85
	5	1.02
	6	1.47
	8	2.81
	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
<u>0705</u>	Pump On						
<u>0715</u>	<u>10</u>	<u>21</u>	<u>210</u>	<u>7.06</u>	<u>22.5</u>	<u>755</u>	
<u>0725</u>	<u>20</u>	<u>21</u>	<u>420</u>	<u>7.10</u>	<u>22.6</u>	<u>752</u>	
<u>0735</u>	<u>30</u>	<u>21</u>	<u>630</u>	<u>7.11</u>	<u>22.5</u>	<u>753</u>	
<u>0745</u>	<u>40</u>	<u>21</u>	<u>840</u>	<u>7.09</u>	<u>22.5</u>	<u>754</u>	
							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)
<u>BMO-2008-6M</u>	<u>0745</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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: 249.62

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-18-22
 Well ID: BMO-2008-7M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Slurmy

WELL DATA		
Well Depth (ft bls): <u>670</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>249.92</u>	2	0.16
Casing Volume (gal): <u>432.7 x3 = 1298</u>	4	0.65
Total Volume Purged (gal): <u>1365</u>	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
<u>0530</u>	<u>Pump On</u>						
<u>0555</u>	<u>25</u>	<u>21</u>	<u>525</u>	<u>7.42</u>	<u>23.4</u>	<u>505</u>	
<u>0615</u>	<u>45</u>	<u>21</u>	<u>945</u>	<u>7.40</u>	<u>23.5</u>	<u>507</u>	
<u>0635</u>	<u>65</u>	<u>21</u>	<u>1365</u>	<u>7.41</u>	<u>23.3</u>	<u>505</u>	
							<u>Pump Off</u>

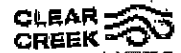
FIELD PARAMETER STABILIZATION: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 µS/cm

SAMPLE INFORMATION							
Sample Collection Point:							
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BMO-2008-7M</u>	<u>0635</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Low</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: 4201



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-18-27
 Well ID: BMD-2008-8B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Stevens

WELL DATA

Well Depth (ft bls): <u>480</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>307.74</u> Casing Volume (gal): <u>x3 =</u> Total Volume Purged (gal): _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.65</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> <p style="text-align: center;">Casing Volume = gallons/foot * water column (feet)</p>	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 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																

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 parameters 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: 7-18-22

Well ID: BMO-2008-8M

Weather: Sunny

ADWR No: _____

Sampler: Christopher L. Sturman

WELL DATA

Well Depth (ft bls): <u>1210</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>303.76</u> Casing Volume (gal): <u>924.4</u> $\times 3 = 2,773$ Total Volume Purged (gal): <u>2816</u>	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
<u>0700</u>	<u>Pump On</u>						
<u>0800</u>	<u>60</u>	<u>17.6</u>	<u>1056</u>	<u>6.69</u>	<u>24.2</u>	<u>1200</u>	
<u>0900</u>	<u>120</u>	<u>17.6</u>	<u>2112</u>	<u>6.71</u>	<u>24.3</u>	<u>1280</u>	
<u>0930</u>	<u>150</u>	<u>17.6</u>	<u>2640</u>	<u>6.70</u>	<u>24.2</u>	<u>1300</u>	
<u>0940</u>	<u>160</u>	<u>17.6</u>	<u>2816</u>	<u>6.69</u>	<u>24.4</u>	<u>1310</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-8M</u>	<u>0940</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ja</u>	<u>X</u>

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: 906.3

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-18-22
 Well ID: BMO-2008-9M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA

Well Depth (ft bls): <u>775</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>296.39</u> Casing Volume (gal): <u>488.1 x3 = 1,464</u> Total Volume Purged (gal): <u>1504</u>	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
<u>1030</u>							<u>Pump On</u>
<u>1050</u>	<u>20</u>	<u>18.8</u>	<u>376</u>	<u>7.70</u>	<u>24.7</u>	<u>614</u>	
<u>1110</u>	<u>40</u>	<u>18.8</u>	<u>752</u>	<u>7.75</u>	<u>24.8</u>	<u>616</u>	
<u>1130</u>	<u>60</u>	<u>18.8</u>	<u>1128</u>	<u>7.77</u>	<u>24.6</u>	<u>617</u>	
<u>1150</u>	<u>80</u>	<u>18.8</u>	<u>1504</u>	<u>7.78</u>	<u>24.6</u>	<u>616</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-9M</u>	<u>1150</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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: 478.6

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-7-22
 Well ID: BMD-2008-106L Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Skurms

WELL DATA

Well Depth (ft bis): <u>810</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>291.04</u> Casing Volume (gal): <u> </u> x3 = Total Volume Purged (gal): <u> </u>	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 parameters 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: 9-7-22
 Well ID: BMP-2008-1064 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Slawson

WELL DATA

Well Depth (ft bls): <u>449</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>206.21</u> 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 parameters 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: 8-1-22
 Well ID: BMO-2008-116 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bis): <u>760</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>543.22</u> Casing Volume (gal): <u>721.1 x3 = 664</u> Total Volume Purged (gal): <u>720</u>	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
<u>0530</u>	<u>Pump On</u>						
<u>0540</u>	<u>10</u>	<u>8</u>	<u>80</u>	<u>7.77</u>	<u>25.4</u>	<u>349</u>	
<u>0600</u>	<u>30</u>	<u>8</u>	<u>240</u>	<u>7.87</u>	<u>25.5</u>	<u>352</u>	
<u>0630</u>	<u>60</u>	<u>8</u>	<u>480</u>	<u>7.85</u>	<u>25.6</u>	<u>350</u>	
<u>0700</u>	<u>90</u>	<u>8</u>	<u>720</u>	<u>7.88</u>	<u>25.6</u>	<u>351</u>	
							<u>Pump Off</u>

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)
<u>BMO-2008-116</u>	<u>0700</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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: 216.8

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-6-22
 Well ID: BMO-2008-13B Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shum

WELL DATA

Well Depth (ft bls): <u>475</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>217.94</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWR only



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-6-22
 Well ID: BMD-2008-13M Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Sturman

WELL DATA

Well Depth (ft bis): <u>1030</u> Casing Diameter (in): <u>5"</u> Static Water Level (ft bmp): <u>217.54</u> Casing Volume (gal): _____ x3 = _____ Total Volume Purged (gal): _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.85</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> Casing Volume = gallons/foot * water column (feet)	Casing Capacity		Nominal Size (inches)	Gallons per Linear Foot	2	0.16	4	0.85	5	1.02	6	1.47	8	2.61	10	4.08
Casing Capacity																	
Nominal Size (inches)	Gallons per Linear Foot																
2	0.16																
4	0.85																
5	1.02																
6	1.47																
8	2.61																
10	4.08																

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 parameters 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: 7-26-22
 Well ID: BMO-2010-1M Weather: Partly Cloudy
 ADWR No: _____ Sampler: Christopher K. Sloman

WELL DATA

Well Depth (ft bls): <u>550</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>218.04</u> Casing Volume (gal): <u>338.6</u> x3 = <u>1,016</u> Total Volume Purged (gal): <u>1065</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.65</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> <p style="text-align: center;">Casing Volume = gallons/foot * water column (feet)</p>	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 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																

FIELD SAMPLING DATA

Time	Elapsed Time (min)	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Comments
<u>0530</u>	<u>Pump On</u>						
<u>0545</u>	<u>15</u>	<u>10</u>	<u>150</u>	<u>7.45</u>	<u>23.9</u>	<u>797</u>	
<u>0630</u>	<u>60</u>	<u>5</u>	<u>325</u>	<u>7.68</u>	<u>24.2</u>	<u>783</u>	
<u>0730</u>	<u>120</u>	<u>3</u>	<u>555</u>	<u>7.65</u>	<u>24.0</u>	<u>786</u>	
<u>0830</u>	<u>180</u>	<u>3</u>	<u>725</u>	<u>7.66</u>	<u>23.9</u>	<u>788</u>	
<u>0930</u>	<u>240</u>	<u>3</u>	<u>915</u>	<u>7.64</u>	<u>24.0</u>	<u>786</u>	
<u>1020</u>	<u>290</u>	<u>3</u>	<u>1065</u>	<u>7.65</u>	<u>23.9</u>	<u>788</u>	
							<u>Pump Off</u>

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)
<u>BMO-2010-1M</u>	<u>1020</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-26-22
 Well ID: BMO-2010-2M Weather: Partly Cloudy
 ADWR No: _____ Sampler: Chris Taylor L. Shum

WELL DATA

Well Depth (ft bis): <u>380</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>273.45</u> Casing Volume (gal): <u>x3 =</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWL only



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/19/22
 Well ID: BMO-2010-3B Weather: clear 80s
 ADWR No: 219970 Sampler: GLL

WELL DATA		
Well Depth (ft bls): <u>330</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>125.32 5</u>	2	0.16
Static Water Level (ft bmp): <u>↓</u>	4	0.65
Casing Volume (gal): <u>209 x3 = 627</u>	6	1.47
Total Volume Purged (gal):	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
<u>0748</u>	<u>Pump On</u>						
<u>0800</u>	<u>12</u>	<u>8</u>	<u>96</u>	<u>7.68</u>	<u>22.8</u>	<u>474.9</u>	
<u>0820</u>		<u>8</u>		<u>7.45</u>	<u>22.8</u>	<u>441.9</u>	
<u>0840</u>				<u>7.42</u>	<u>22.9</u>	<u>429.4</u>	
<u>0900</u>				<u>7.44</u>	<u>22.8</u>	<u>429.0</u>	
<u>0920</u>				<u>7.41</u>	<u>22.2</u>	<u>430.0</u>	
							<u>Pump Off</u>

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)
<u>BMO-2010-3B</u>	<u>0923</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: 127.97

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/19/22
 Well ID: BMO-2010-3M Weather: Clear 80s
 ADWR No: 219969 Sampler: Glt

WELL DATA		
Well Depth (ft bls): <u>532</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>127.97</u>	2	0.16
Casing Volume (gal): <u>412</u> <u>x3 = 1236</u>	4	0.65
Total Volume Purged (gal):	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
<u>0925</u>	<u>Pump On</u>						
<u>0955</u>	<u>30</u>	<u>8</u>	<u>240</u>	<u>7.96</u>	<u>24.0</u>	<u>312.4</u>	
<u>1025</u>	<u>60</u>	<u>8</u>	<u>480</u>	<u>7.57</u>	<u>25.0</u>	<u>381.9</u>	
<u>1055</u>	<u>90</u>	<u>8</u>	<u>720</u>	<u>7.55</u>	<u>24.7</u>	<u>389.7</u>	
<u>1125</u>	<u>120</u>	<u>8</u>	<u>960</u>	<u>7.54</u>	<u>25.5</u>	<u>391.0</u>	
<u>1155</u>	<u>150</u>	<u>8</u>	<u>1200</u>	<u>7.53</u>	<u>25.8</u>		
							<u>Pump Off</u>

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)
<u>BMO-2010-3M</u>	<u>1200</u>						

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: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-19-22
 Well ID: BMO-2012-1M Weather: Sunny
 ADWR No: _____ Sampler: Christopher J. Stormy

WELL DATA

Well Depth (ft bls): <u>405</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>221.98</u> Casing Volume (gal): <u>186.7 x 3 = 560.2</u> Total Volume Purged (gal): <u>600</u>	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
<u>0600</u>	<u>Pump On</u>						
<u>0610</u>	<u>10</u>	<u>6</u>	<u>60</u>	<u>7.12</u>	<u>23.4</u>	<u>985</u>	
<u>0630</u>	<u>30</u>	<u>6</u>	<u>180</u>	<u>7.10</u>	<u>23.5</u>	<u>990</u>	
<u>0700</u>	<u>60</u>	<u>6</u>	<u>360</u>	<u>7.13</u>	<u>23.4</u>	<u>993</u>	
<u>0730</u>	<u>100</u>	<u>6</u>	<u>600</u>	<u>7.14</u>	<u>23.5</u>	<u>992</u>	
							<u>Pump Off</u>

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)
<u>BMO-2012-1M</u>	<u>0730</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Ice</u>	<u>Y</u>

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:

1831

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/21/2022
 Well ID: BMO-2014-1BL Weather: 94° Partly Cloudy
 ADWR No: 917394 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>366'</u>	Casing Capacity
Casing Diameter (in):	<u>5"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>129.72'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>146.15' x3 = 724</u>	2 0.16
Total Volume Purged (gal):	<u>977</u>	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
<u>1047</u>	<u>Pump On</u>						
<u>1059</u>	<u>12</u>	<u>20</u>	<u>240</u>	<u>7.37</u>	<u>22.5</u>	<u>729.1</u>	
<u>1105</u>	<u>17</u>	<u>19</u>	<u>323</u>	<u>7.39</u>	<u>22.6</u>	<u>736.4</u>	
<u>1116</u>	<u>28</u>	<u>18</u>	<u>521</u>	<u>7.35</u>	<u>23.0</u>	<u>732.8</u>	
<u>1124</u>	<u>36</u>	<u>19</u>	<u>673</u>	<u>7.33</u>	<u>22.5</u>	<u>734.9</u>	
<u>1130</u>	<u>42</u>	<u>19</u>	<u>787</u>	<u>7.46</u>	<u>22.7</u>	<u>736.2</u>	
<u>1131</u>	<u>43</u>	<u>19</u>	<u>806</u>	<u>7.32</u>	<u>22.4</u>	<u>740.2</u>	
<u>1132</u>	<u>44</u>	<u>19</u>	<u>825</u>	<u>7.30</u>	<u>22.3</u>	<u>738.3</u>	
<u>1133</u>	<u>45</u>	<u>19</u>	<u>844</u>	<u>7.29</u>	<u>22.2</u>	<u>734.3</u>	
							<u>Pump Off 1140</u>

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)
<u>BMO-2014-1BL</u>	<u>1135</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: 7/21/2022
 Well ID: BMO-2014-1BU Weather: 94° Partly Cloudy
 ADWR No: 917393 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>273</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
	4	0.65
Static Water Level (ft bmp): <u>129.93'</u>	5	1.02
	6	1.47
Casing Volume (gal): <u>145.93 x3 = 438</u>	8	2.61
	10	4.08
Total Volume Purged (gal): <u>594</u>	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
<u>1141</u>	Pump On						
<u>1145</u>	<u>4</u>	<u>18</u>	<u>72</u>	<u>7.33</u>	<u>22.1</u>	<u>798.1</u>	
<u>1159</u>	<u>18</u>	<u>18</u>	<u>324</u>	<u>7.48</u>	<u>22.3</u>	<u>769.1</u>	
<u>1205</u>	<u>24</u>	<u>18</u>	<u>432</u>	<u>7.53</u>	<u>22.1</u>	<u>751.1</u>	
<u>1209</u>	<u>28</u>	<u>18</u>	<u>450</u>	<u>7.47</u>	<u>22.0</u>	<u>746.0</u>	
<u>1211</u>	<u>30</u>	<u>18</u>	<u>468</u>	<u>7.39</u>	<u>21.5</u>	<u>746.0</u>	
<u>1212</u>	<u>31</u>	<u>18</u>	<u>486</u>	<u>7.33</u>	<u>21.4</u>	<u>744.4</u>	
<u>1214</u>	<u>33</u>	<u>18</u>	<u>504</u>	<u>7.39</u>	<u>21.5</u>	<u>742.2</u>	
<u>1216</u>	<u>35</u>	<u>18</u>	<u>522</u>	<u>7.36</u>	<u>21.5</u>	<u>739.9</u>	
<u>1217</u>	<u>36</u>	<u>18</u>	<u>540</u>	<u>7.38</u>	<u>21.5</u>	<u>737.8</u>	Pump Off <u>1220</u>

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)
<u>BMO-2014-1BU</u>	<u>1220</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>
<u>DUP 721</u>	<u>1220</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/21/2022
 Well ID: BMO-2014-2BL Weather: 84° Mostly Cloudy
 ADWR No: 917452 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>396</u>	Casing Capacity
Casing Diameter (in):	<u>5</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>132.96'</u>	2 0.16
Casing Volume (gal):	<u>268.30 x3 = 805</u>	4 0.65
Total Volume Purged (gal):	<u>930</u>	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
<u>0824</u>	<u>Pump On</u>						
<u>0832</u>	<u>8</u>	<u>19</u>	<u>152</u>	<u>7.17</u>	<u>21.2</u>	<u>1182</u>	
<u>0854</u>	<u>30</u>	<u>19</u>	<u>570</u>	<u>7.26</u>	<u>21.4</u>	<u>1187</u>	
<u>0902</u>	<u>38</u>	<u>20</u>	<u>730</u>	<u>7.27</u>	<u>21.5</u>	<u>1179</u>	
<u>0907</u>	<u>43</u>	<u>20</u>	<u>830</u>	<u>7.20</u>	<u>21.6</u>	<u>1178</u>	
<u>0908</u>	<u>44</u>	<u>20</u>	<u>850</u>	<u>7.23</u>	<u>21.3</u>	<u>1180</u>	
<u>0909</u>	<u>45</u>	<u>20</u>	<u>870</u>	<u>7.20</u>	<u>21.3</u>	<u>1181</u>	
							<u>Pump Off 0915</u>

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)
<u>BMO-2014-2BL</u>	<u>0912</u>	<u>poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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 ^{SS} Date: 7/21/2022
 Well ID: BMO-2014-280 2BU Weather: 84° Mostly Cloudy
 ADWR No: 917453 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>276'</u>	Casing Capacity
Casing Diameter (in):	<u>5"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>133.00'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>145.86 x3 = 438</u>	2
Total Volume Purged (gal):	<u>608</u>	4
		5
		6
		8
		10
		16
		20
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
<u>0927</u>	<u>Pump On</u>						
<u>0930</u>	<u>3</u>	<u>19</u>	<u>57</u>	<u>7.52</u>	<u>21.6</u>	<u>537.1</u>	
<u>0940</u>	<u>13</u>	<u>19</u>	<u>247</u>	<u>7.50</u>	<u>21.3</u>	<u>540.8</u>	
<u>0951</u>	<u>24</u>	<u>19</u>	<u>456</u>	<u>7.56</u>	<u>22.2</u>	<u>539.5</u>	
<u>0953</u>	<u>26</u>	<u>19</u>	<u>494</u>	<u>7.53</u>	<u>21.1</u>	<u>543.3</u>	
<u>0955</u>	<u>28</u>	<u>19</u>	<u>513</u>	<u>7.50</u>	<u>20.8</u>	<u>544.4</u>	
<u>0956</u>	<u>29</u>	<u>19</u>	<u>532</u>	<u>7.57</u>	<u>20.9</u>	<u>544.3</u>	
<u>0957</u>	<u>30</u>	<u>19</u>	<u>551</u>	<u>7.56</u>	<u>20.8</u>	<u>545.0</u>	
<u>0958</u>	<u>31</u>	<u>19</u>	<u>570</u>	<u>7.55</u>	<u>20.8</u>	<u>545.2</u>	
							<u>Pump Off 1000</u>

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)
<u>BMO-2014-2BU</u>	<u>1000</u>	<u>Poly</u>	<u>200 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: 8/1/2022
 Well ID: BMO-2014-3BL Weather: 83° F Mostly Sunny
 ADWR No: 917527 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>521'</u>	Casing Capacity
Casing Diameter (in):	<u>5"</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>145.37'</u>	2 0.16
Casing Volume (gal):	<u>383.14 x3 = 1,150</u>	4 0.65
Total Volume Purged (gal):	<u>1,269</u>	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
<u>1003</u>	<u>Pump On</u>						
<u>1005</u>	<u>2</u>	<u>17</u>	<u>34</u>	<u>7.44</u>	<u>21.5</u>	<u>431.0</u>	
<u>1025</u>	<u>22</u>	<u>18</u>	<u>394</u>	<u>7.55</u>	<u>22.6</u>	<u>426.3</u>	
<u>1050</u>	<u>47</u>	<u>17</u>	<u>819</u>	<u>7.62</u>	<u>24.2</u>	<u>416.8</u>	
<u>1056</u>	<u>53</u>	<u>18</u>	<u>927</u>	<u>7.65</u>	<u>23.6</u>	<u>418.3</u>	
<u>1106</u>	<u>63</u>	<u>18</u>	<u>1,107</u>	<u>7.64</u>	<u>24.3</u>	<u>416.4</u>	
							<u>Pump Off 1120</u>

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)
<u>BMO-2014-3BL</u>	<u>1115</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/1/2022
 Well ID: BMO-2014-3BV Weather: 86°F Mostly Sunny
 ADWR No: 917494 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>288'</u>	Casing Capacity
Casing Diameter (in):	<u>5"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>146.58'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>144.25 x3 = 433</u>	2
Total Volume Purged (gal):	<u>464</u>	4
		5
		6
		8
		10
		16
		20
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
<u>1125</u>	<u>Pump On</u>						
<u>1128</u>	<u>3</u>	<u>19</u>	<u>57</u>	<u>7.66</u>	<u>22.5</u>	<u>488.3</u>	
<u>1137</u>	<u>12</u>	<u>15</u>	<u>192</u>	<u>7.57</u>	<u>22.1</u>	<u>482.7</u>	
<u>1149</u>	<u>20</u>	<u>16</u>	<u>320</u>	<u>7.59</u>	<u>22.1</u>	<u>481.6</u>	
<u>1154</u>	<u>29</u>	<u>18</u>	<u>356</u>	<u>7.64</u>	<u>21.7</u>	<u>480.8</u>	
<u>1156</u>	<u>31</u>	<u>18</u>	<u>392</u>	<u>7.65</u>	<u>21.9</u>	<u>482.5</u>	
<u>1158</u>	<u>33</u>	<u>18</u>	<u>428</u>	<u>7.63</u>	<u>21.3</u>	<u>481.7</u>	
							<u>Pump Off 1205</u>

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)
<u>BMO-2014-3BV</u>	<u>1200</u>	<u>PoH</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/20/22
 Well ID: BMO-2014-4B Weather: Clear 90s
 ADWR No: 917620 Sampler: Gk

WELL DATA		
Well Depth (ft bls): <u>258</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>139.63</u>	2	0.16
Casing Volume (gal): <u>118</u> x3 = <u>354</u>	4	0.65
Total Volume Purged (gal):	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
<u>1233</u>	<u>Pump On</u>						
<u>1238</u>	<u>5</u>	<u>18</u>		<u>7.71</u>	<u>24.1</u>	<u>488.2</u>	
<u>1243</u>	<u>10</u>	<u>18</u>	<u>180</u>	<u>7.36</u>	<u>25.4</u>	<u>483.0</u>	
<u>1248</u>	<u>15</u>	<u>18</u>	<u>270</u>	<u>7.58</u>	<u>23.0</u>	<u>477.3</u>	
<u>1253</u>	<u>20</u>	<u>18</u>	<u>360</u>	<u>7.55</u>	<u>23.1</u>	<u>478.5</u>	
<u>1258</u>	<u>25</u>	<u>18</u>	<u>450</u>	<u>7.44</u>	<u>23.5</u>	<u>476.1</u>	
							<u>Pump Off</u>

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)
<u>BMO-2014-4B</u>	<u>1300</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 7/20/22
 Well ID: BMO-201844BL Weather: Cloudy 80s
 ADWR No: 917619 Sampler: GME

WELL DATA		
Well Depth (ft bls): <u>261</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>138.98</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>124</u> x3 = <u>372</u>	6	1.47
	8	2.61
Total Volume Purged (gal):	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
<u>1110</u>	<u>Pump On</u>						
<u>1114</u>							<u>Pump off out of gas</u>
<u>1153</u>	<u>Pump on</u>						
<u>1158</u>	<u>5</u>	<u>16</u>		<u>7.43</u>	<u>22.0</u>	<u>565.8</u>	
<u>1203</u>	<u>10</u>	<u>16</u>		<u>7.40</u>	<u>21.9</u>	<u>588.0</u>	
<u>1208</u>	<u>15</u>	<u>16</u>	<u>240</u>	<u>7.43</u>	<u>22.4</u>	<u>606.4</u>	
<u>1213</u>	<u>20</u>	<u>16</u>	<u>320</u>	<u>7.43</u>	<u>22.8</u>	<u>608.9</u>	
<u>1218</u>	<u>25</u>	<u>16</u>	<u>400</u>	<u>7.40</u>	<u>22.8</u>	<u>606.9</u>	
							<u>Pump Off</u>

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)
<u>BMO-2014-4BL</u>	<u>1220</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/20/22
 Well ID: BMO-2015-1B Weather: clear 85s
 ADWR No: 917622 Sampler: BK

WELL DATA		
Well Depth (ft bls): <u>244</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
	4	0.65
Static Water Level (ft bmp): <u>135.50</u>	5	1.02
	6	1.47
Casing Volume (gal): <u>111</u> x3 = <u>333</u>	8	2.61
	10	4.08
Total Volume Purged (gal):	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
<u>0935</u>	Pump On						
<u>0940</u>	<u>5</u>	<u>15</u>	<u>75</u>	<u>7.48</u>	<u>22.0</u>	<u>714.4</u>	
<u>0945</u>	<u>10</u>	<u>15</u>	<u>150</u>	<u>7.57</u>	<u>21.5</u>	<u>732.0</u>	
<u>0950</u>	<u>15</u>	<u>15</u>	<u>225</u>	<u>7.48</u>	<u>21.9</u>	<u>736.9</u>	
<u>0955</u>	<u>20</u>	<u>15</u>	<u>300</u>	<u>7.55</u>	<u>21.3</u>	<u>734.9</u>	
<u>1000</u>	<u>25</u>	<u>15</u>	<u>375</u>	<u>7.56</u>	<u>21.3</u>	<u>733.7</u>	
							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)
<u>BMO-2015-1B</u>	<u>1002</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 7/20/22
 Well ID: BMO-2015-13L Weather: cloudy 90s
 ADWR No: 917621 Sampler: GK

WELL DATA		
Well Depth (ft bls): <u>241</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>136.82</u>	2	0.16
Casing Volume (gal): <u>107</u> x3 = <u>321</u>	4	0.65
Total Volume Purged (gal):	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
<u>1010</u>	<u>Pump On</u>						
<u>1015</u>	<u>5</u>	<u>18</u>	<u>90</u>	<u>7.44</u>	<u>22.2</u>	<u>846.6</u>	
<u>1020</u>	<u>10</u>	<u>18</u>	<u>180</u>	<u>7.48</u>	<u>21.4</u>	<u>846.9</u>	
<u>1025</u>	<u>15</u>	<u>18</u>	<u>270</u>	<u>7.51</u>	<u>21.4</u>	<u>846.0</u>	
<u>1030</u>	<u>20</u>	<u>18</u>	<u>360</u>	<u>7.48</u>	<u>21.4</u>	<u>845.9</u>	
							<u>Pump Off</u>

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)
<u>BMO-2015-13L</u>	<u>1035</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>3000</u>	<u>NP</u>	<u>Y</u>

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: 7/20/22
 Well ID: BMO-2015-2B Weather: Clear 80s
 ADWR No: 917827 Sampler: GLK

WELL DATA		
Well Depth (ft bls): <u>268</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>155.38</u>	2	0.16
Casing Volume (gal): <u>115</u> x3 = <u>345</u>	4	0.65
Total Volume Purged (gal):	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
<u>0745</u>	Pump On						
<u>0750</u>	<u>5</u>	<u>15</u>	<u>75</u>	<u>7.22</u>	<u>21.1</u>	<u>977.4</u>	
<u>0755</u>	<u>10</u>	<u>15</u>	<u>150</u>	<u>7.27</u>	<u>21.0</u>	<u>951.5</u>	
<u>0800</u>	<u>15</u>	<u>15</u>	<u>225</u>	<u>7.27</u>	<u>20.9</u>	<u>938.4</u>	
<u>0805</u>	<u>20</u>	<u>15</u>	<u>300</u>	<u>7.30</u>	<u>21.0</u>	<u>923.0</u>	
<u>0810</u>	<u>25</u>	<u>15</u>	<u>375</u>	<u>7.33</u>	<u>21.0</u>	<u>916.2</u>	
							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)
<u>BMO-2015-2B</u>	<u>0811</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/20/22
 Well ID: BMO-2015-2BL Weather: clear 80s
 ADWR No: 917828 Sampler: GL

WELL DATA		
Well Depth (ft bls): <u>272</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>154.10</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>121</u> x3 = <u>363</u>	6	1.47
	8	2.61
Total Volume Purged (gal):	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
<u>0825</u>	Pump On						
<u>0830</u>	<u>5</u>	<u>15</u>	<u>75</u>	<u>7.25</u>	<u>21.4</u>	<u>1006</u>	
<u>0840</u>	<u>15</u>	<u>15</u>	<u>225</u>	<u>7.34</u>	<u>21.7</u>	<u>992.5</u>	
<u>0845</u>	<u>20</u>	<u>15</u>	<u>300</u>	<u>7.30</u>	<u>21.6</u>	<u>987.2</u>	
<u>0850</u>	<u>35</u>	<u>15</u>	<u>375</u>	<u>7.30</u>	<u>21.8</u>	<u>980.3</u>	
							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)
<u>BMO-2015-2BL</u>	<u>0853</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments:

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/22
 Well ID: BURKE Weather: Clear 90s
 ADWR No: 212268 Sampler: GL

WELL DATA		
Well Depth (ft bls): <u>781</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>Obstruction at ~50'</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
<u>1315</u>	<u>Pump On</u>						
<u>1317</u>	<u>2</u>	<u>13</u>	<u>26</u>	<u>7.79</u>	<u>23.3</u>	<u>482.1</u>	
<u>1320</u>	<u>7</u>	<u>13</u>	<u>41</u>	<u>7.76</u>	<u>27.0</u>	<u>479.8</u>	
<u>1327</u>	<u>12</u>	<u>13</u>	<u>156</u>	<u>7.82</u>	<u>28.1</u>	<u>479.6</u>	
<u>1332</u>	<u>17</u>	<u>13</u>	<u>221</u>	<u>7.79</u>	<u>27.1</u>	<u>479.2</u>	
<u>1337</u>	<u>22</u>	<u>13</u>	<u>286</u>	<u>7.77</u>	<u>27.1</u>	<u>478.5</u>	
							<u>Pump Off</u>

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: <u>Spigot off P-tank and Storage Tank</u>					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>BURKE</u>	<u>1340</u>	<u>POLY</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input checked="" type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input checked="" type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Tried to sand per owner request, but got hung up around 50'



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/2022
 Well ID: CHAMBER Weather: 91° P Sunny
 ADWR No: 629807 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>245'</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>IWL</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<i>Well inoperable</i>							
							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)
W10							

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: W10

Additional Comments: Recommend removal from schedule



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/3/2022
 Well ID: COB MW-1B Weather: 80° F Mostly Sunny
 ADWR No: 225906 Sampler: JS

WELL DATA		
Well Depth (ft bls):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
500'	2	0.16
Casing Diameter (in): 6"	4	0.65
Static Water Level (ft bmp): 240.27' (historic)	5	1.02
Casing Volume (gal): 381.80 x3 = 1,146	6	1.47
Total Volume Purged (gal): 1,255	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
1048	Pump On						
1042	2	16	32	7.22	22.6	1292	
1107	27	15	407	7.14	23.2	1506	
1133	53	16	823	6.97	23.4	1779	
1142	62	16	967	6.90	23.1	1795	
1153	73	16	1,143	7.02	23.1	1805	
1156	76	16	1,191	6.95	23.5	1808	
1157	77	16	1,207	6.97	22.3	1806	
1158	78	16	1,223	6.96	22.3	1808	
							Pump Off 1203

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-1B	1200	poly	250 mL	1	300.0	None	Y

WATER LEVEL MEASUREMENT COLLECTION
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input checked="" type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input checked="" type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/3/2022
 Well ID: COB-MW-2 Weather: 78°F Mostly Sunny
 ADWR No: 903984 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>162'</u>	Casing Capacity
Casing Diameter (in):	<u>4"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>136'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>16.9</u> x3 = <u>51</u>	2 0.16
Total Volume Purged (gal):	<u>96</u>	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
<u>0936</u>	Pump On						
<u>0939</u>	<u>3</u>	<u>8</u>	<u>24</u>	<u>7.48</u>	<u>20.7</u>	<u>586.4</u>	
<u>0945</u>	<u>9</u>	<u>8</u>	<u>72</u>	<u>7.42</u>	<u>20.6</u>	<u>614.5</u>	
<u>0946</u>	<u>10</u>	<u>8</u>	<u>80</u>	<u>7.42</u>	<u>20.2</u>	<u>618.3</u>	
<u>0947</u>	<u>11</u>	<u>8</u>	<u>88</u>	<u>7.42</u>	<u>20.2</u>	<u>618.0</u>	
							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)
<u>COB-MW-2</u>	<u>0948</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: WL from COB measurement at 0934. Filtered w/ hand pump



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/3/2012
 Well ID: COB MW-3 Weather: 71° F Mostly Sunny
 ADWR No: 906823 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>300'</u>	Casing Capacity
Casing Diameter (in):	<u>4"</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>132'</u>	2 0.16
Casing Volume (gal):	<u>109.2 x3 = 328</u>	4 0.65
Total Volume Purged (gal):	<u>349</u>	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
<u>0843</u>	<u>Pump On</u>						
<u>0847</u>	<u>4</u>	<u>21</u>	<u>84</u>	<u>7.53</u>	<u>21.3</u>	<u>541.3</u>	
<u>0852</u>	<u>9</u>	<u>21</u>	<u>189</u>	<u>7.53</u>	<u>20.5</u>	<u>559.9</u>	
<u>0857</u>	<u>14</u>	<u>20</u>	<u>289</u>	<u>7.50</u>	<u>20.8</u>	<u>558.4</u>	
<u>0</u>							
							Pump Off <u>0905</u>

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)
<u>COB-MW-3</u>	<u>0900</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Filtered w/ hand pump. WL collected by COB just before 0843.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/3/2022
 Well ID: COB-WL Weather: 86°F Partly Cloudy
 ADWR No: 593116 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>150'</u>	Casing Capacity
Casing Diameter (in):	<u>4"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>98.70</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>33.35</u> x3 = <u>101</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<u>1340</u>	<u>Pump On</u>						
<u>1347</u>	<u>7</u>	<u>8</u>	<u>56</u>	<u>7.02</u>	<u>21.7</u>	<u>1068</u>	
1350							
							Pump Off <u>1351</u>

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)
<u>COB-WL</u>	<u>1350</u>	<u>poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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 began to run dry collected sample from last trickle.

Additional Comments: WL: 100.99' from casing. 2.29' stick up. Hand filtered sample

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/11/22
 Well ID: COOPER Weather: Clear, 80s
 ADWR No: 623564 Sampler: GM

WELL DATA

Well Depth (ft bls): <u>325</u> Casing Diameter (in): <u>6</u> Static Water Level (ft bmp): <u>IWL</u> 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 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)
<u>WLO</u>							

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 disconnected/Repaired by COOPER 988

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/8/22
 Well ID: COOPER 988 Weather: Clear 90s
 ADWR No: 232988 Sampler: GK

WELL DATA		Casing Capacity	
Well Depth (ft bls):	Casing Diameter (in):	Nominal Size (inches)	Gallons per Linear Foot
<u>600</u>	<u>6</u>	2	0.16
		4	0.65
		5	1.02
Static Water Level (ft bmp):	<u>327.23</u>	<u>6</u>	<u>1.47</u>
Casing Volume (gal):	<u>401</u> x3 = <u>1203</u>	8	2.61
Total Volume Purged (gal):		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
<u>0925</u>	<u>Pump On</u>						
<u>0925</u>	<u>3</u>	<u>12</u>	<u>36</u>	<u>7.98</u>	<u>27.9</u>	<u>452.3</u>	
<u>0945</u>	<u>20</u>	<u>12</u>	<u>240</u>	<u>8.09</u>	<u>28.6</u>	<u>414.0</u>	
<u>1000</u>	<u>35</u>	<u>12</u>	<u>420</u>	<u>8.06</u>	<u>28.7</u>	<u>409.9</u>	
<u>1015</u>	<u>50</u>	<u>12</u>	<u>600</u>	<u>8.00</u>	<u>28.5</u>	<u>411.4</u>	
<u>1030</u>	<u>65</u>	<u>12</u>	<u>780</u>	<u>8.09</u>	<u>28.1</u>	<u>414.9</u>	
<u>1045</u>	<u>90</u>	<u>12</u>	<u>840</u>	<u>8.09</u>	<u>28.5</u>	<u>411.0</u>	
<u>1100</u>	<u>105</u>	<u>12</u>	<u>1120</u>	<u>8.04</u>	<u>28.3</u>	<u>409.8</u>	
<u>1115</u>	<u>120</u>	<u>12</u>	<u>1300</u>	<u>8.03</u>	<u>28.1</u>	<u>417.2</u>	
							<u>Pump Off</u>

0928

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 <u>Other: Sampled off spigot on N side of S House</u>					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>COOPER 988</u>	<u>1118</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>
<u>DUP20220708</u>	<u>1119</u>	<u>Poly</u>	<u>250ml</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION

Water level measurement collected. (collected from 988 North of Hanger bldg)

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: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-25-22
 Well ID: Cooper L Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Slavin

WELL DATA		
Well Depth (ft bis): <u>220</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>168.15</u>	2	0.16
Casing Volume (gal): <u>76.2 x3 = 229</u>	4	0.85
Total Volume Purged (gal): _____	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
<u>0715</u>	Pump On						
<u>0815</u>	<u>60</u>			<u>6.93</u>	<u>25.1</u>	<u>1508</u>	
<u>0825</u>	<u>70</u>			<u>90</u>	<u>24.9</u>	<u>1510</u>	
<u>0835</u>	<u>80</u>			<u>6.93</u>	<u>24.8</u>	<u>1511</u>	
							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 parameters stabilized.
 - Purged well until field parameters stabilized.
 - Other: _____

Additional Comments: 51.9
Well surging - low flow - field parameters consistent and sampled

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/6/22
 Well ID: Dodson Weather: Cl- 90s
 ADWR No: 644927 Sampler: GK

WELL DATA		
Well Depth (ft bls): <u>9^{SA} 200 200</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>99.20</u>	2	0.16
Casing Volume (gal): <u>882 148 x3 = 445</u>	4	0.65
Total Volume Purged (gal):	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
<u>1518</u>	<u>Pump On</u>						
<u>1522</u>	<u>4</u>	<u>11</u>	<u>44</u>	<u>6.79</u>	<u>22.9</u>	<u>2458</u>	
<u>1530</u>	<u>12</u>	<u>11</u>	<u>132</u>	<u>7.20</u>	<u>22.6</u>	<u>2217</u>	
<u>1540</u>	<u>8:22</u>	<u>8</u>	<u>212</u>	<u>7.16</u>	<u>22.3</u>	<u>2163</u>	
<u>18:55</u>	<u>32</u>	<u>7</u>	<u>282</u>	<u>7.14</u>	<u>23.8</u>	<u>2165</u>	
<u>18:00</u>	<u>42</u>	<u>5</u>	<u>332</u>	<u>7.16</u>	<u>22.8</u>	<u>2131</u>	
<u>18:10</u>	<u>52</u>	<u>5</u>	<u>382</u>	<u>7.20</u>	<u>22.0</u>	<u>2113</u>	
<u>18:20</u>	<u>62</u>	<u>5</u>	<u>432</u>	<u>7.14</u>	<u>22.2</u>	<u>2117</u>	
							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at Phear wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>DODSON</u>	<u>1625</u>	<u>POLY</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 7/8/22
 Well ID: DOUGLAS 791 Weather: Clear 905
 ADWR No: 592791 Sampler: BM

WELL DATA		
Well Depth (ft bls): <u>200</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>37.92</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/8/22
 Well ID: DOUGLAS 792 Weather: Clear 93s
 ADWR No: 592792 Sampler: Gle

WELL DATA		
Well Depth (ft bls): <u>200</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>87.30</u>	2	0.16
Casing Volume (gal): <u> </u> x3 =	4	0.65
Total Volume Purged (gal): <u> </u>	5	1.02
	6	1.47
	8	2.61
	10	4.08
	16	10.44
	20	16.31
<small>Casing Volume = gallons/foot * water column (feet)</small>		

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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/2022
 Well ID: EAST Weather: 79° F, sunny
 ADWR No: 599796 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>225'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
	2	0.16
Static Water Level (ft bmp): <u>78.45'</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>68.43 x3 = 206</u>	6	1.47
	8	2.61
Total Volume Purged (gal): <u>222</u>	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
<u>0853</u>	<u>Pump On</u>						
<u>0858</u>	<u>5</u>	<u>6</u>	<u>30</u>	<u>7.08</u>	<u>19.8</u>	<u>620.3</u>	
<u>0900</u>	<u>7</u>	<u>6</u>	<u>42</u>	<u>7.18</u>	<u>19.6</u>	<u>621.9</u>	
<u>0908</u>	<u>15</u>	<u>6</u>	<u>90</u>	<u>7.53</u>	<u>19.6</u>	<u>620.2</u>	
<u>0920</u>	<u>27</u>	<u>6</u>	<u>162</u>	<u>7.50</u>	<u>19.7</u>	<u>617.8</u>	
<u>0925</u>	<u>32</u>	<u>6</u>	<u>192</u>	<u>7.53</u>	<u>19.6</u>	<u>617.2</u>	
<u>0928</u>	<u>35</u>	<u>6</u>	<u>210</u>	<u>7.54</u>	<u>19.6</u>	<u>619.1</u>	
							<u>Pump Off 0930</u>

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)
<u>EAST</u>	<u>0930</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>N</u>	<u>Y</u>

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: 7/12/2022
 Well ID: ECHAUEZ Weather: 95°F partly cloudy
 ADWR No: 219449 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>345'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>229.59' from last</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
<u>1223</u>	<u>Pump On</u>						
<u>1227</u>				<u>7.80</u>	<u>26.9</u>	<u>392.5</u>	
<u>1231</u>				<u>7.75</u>	<u>27.7</u>	<u>394.7</u>	
<u>1232</u>				<u>7.73</u>	<u>27.8</u>	<u>394.2</u>	
<u>1233</u>				<u>7.73</u>	<u>27.2</u>	<u>392.8</u>	
							<u>Pump Off 1236</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>ECHAUEZ</u>	<u>1236</u>	<u>pH</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: Obstruction at ~25'. Sampled from port near well, port tank in garage.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/21/22
 Well ID: EPPELLF 641 Weather: NA
 ADWR No: 805641 Sampler: GUL

WELL DATA		
Well Depth (ft bls):	<u>265</u>	Casing Capacity
Casing Diameter (in):	<u>8</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>No Property Access</u>	2 0.16
Casing Volume (gal):	<u>x3 =</u>	4 0.65
Total Volume Purged (gal):		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
<u>No Property Access</u>							
							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)
<u>NPB</u>							

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: owner not home during the summer



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/22
 Well ID: FRANCO 383 Weather: Clear 90s
 ADWR No: 221383 Sampler: GL

WELL DATA		
Well Depth (ft bls): <u>711</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>203.32</u>	4	0.65
	<u>5</u>	<u>1.32</u>
Casing Volume (gal): <u>518</u> x3 = <u>1554</u>	6	1.47
	8	2.61
Total Volume Purged (gal):	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
<u>1015</u>	Pump On						
<u>1030</u>	<u>5</u>	<u>20</u>	<u>100</u>	<u>7.58</u>	<u>29.3</u>	<u>1097</u>	
<u>1045</u>	<u>20</u>	<u>17</u>	<u>355</u>	<u>7.58</u>	<u>27.7</u>	<u>1087</u>	
<u>1100</u>	<u>35</u>	<u>17</u>	<u>610</u>	<u>7.58</u>	<u>26.6</u>	<u>1088</u>	
<u>1115</u>	<u>50</u>	<u>17</u>	<u>865</u>	<u>7.56</u>	<u>26.4</u>	<u>1090</u>	
<u>1130</u>	<u>65</u>	<u>17</u>	<u>1,120</u>	<u>7.61</u>	<u>26.8</u>	<u>1086</u>	
<u>1150</u>	<u>85</u>	<u>17</u>	<u>1,460</u>	<u>7.56</u>	<u>27.7</u>	<u>1086</u>	
<u>1205</u>				<u>7.59</u>	<u>28.2</u>	<u>1077</u>	
<u>1210</u>							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: <u>P-Tapes in steel (need 2 hoses)</u>			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>FRANCO 383</u>	<u>1208</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>308.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Owner wanted more info about project and water deliveries. Also would like water level info in the future.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/11/2022
 Well ID: FULTZ Weather: 101° F Partly Cloudy
 ADWR No: 212 447 Sampler: SS

WELL DATA		
Well Depth (ft bls):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in):	2	0.16
Static Water Level (ft bmp):	4	0.65
	5	1.02
	6	1.47
	8	2.61
Casing Volume (gal):	10	4.08
Total Volume Purged (gal):	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
1207	Pump On						
1208				7.40	22.6	1213	
1209				7.41	21.3	814.2	
1200				7.37	21.2	809.1	
1211				7.39	21.2	808.3	
1211				7.39	21.3	808.2	
							Pump Off 1212

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	1212	Poly	250 mL	1	300.0	None	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: Richard request that we only purge until parameters stabilize. Contact # is (520) 732-0922. MTRON calibrated at 1205



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/22
 Well ID: GARNER 557 Weather: Overcast/Cloud 80s
 ADWR No: 558557 Sampler: GL

WELL DATA		
Well Depth (ft bls): <u>300</u>	Casing Capacity	
Casing Diameter (in): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>204.56</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/22
 Well ID: GARNER 635 Weather: Overcast/Clear 80s
 ADWR No: 587635 Sampler: GLK

WELL DATA		
Well Depth (ft bls): <u>680</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>206.52</u>	2	0.16
Casing Volume (gal): <u>483</u> x3 = <u>1449</u>	4	0.65
Total Volume Purged (gal): <u>1475</u>	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
<u>0850</u>	<u>Pump On</u>						
<u>0855</u>	<u>5</u>	<u>15</u>	<u>75</u>	<u>7.60</u>	<u>22.0</u>	<u>658.6</u>	
<u>0915</u>	<u>25</u>	<u>20</u>	<u>475</u>	<u>7.85</u>	<u>24.3</u>	<u>490.3</u>	
<u>0935</u>	<u>45</u>	<u>20</u>	<u>875</u>	<u>7.64</u>	<u>25.0</u>	<u>471.2</u>	
<u>0955</u>	<u>65</u>	<u>20</u>	<u>1275</u>	<u>7.73</u>	<u>25.7</u>	<u>468.7</u>	
<u>1005</u>	<u>75</u>	<u>20</u>	<u>1475</u>	<u>7.62</u>	<u>25.9</u>	<u>468.6</u>	
<u>1010</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point: <u>Spigot at / near wellhead</u>				Other:			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>GARNER 635</u>	<u>1010</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-25-22
 Well ID: Hoban Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shanna

WELL DATA

Well Depth (ft bls): <u>300</u> Casing Diameter (in): <u>5</u> Static Water Level (ft bmp): <u>176.56</u> Casing Volume (gal): <u>126</u> $\times 3 = 378$ Total Volume Purged (gal): <u>528</u>	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
<u>0900</u>	<u>Pump On</u>						
<u>0910</u>	<u>10</u>	<u>12.6</u>	<u>126</u>	<u>7.21</u>	<u>22.0</u>	<u>862</u>	
<u>0920</u>	<u>20</u>	<u>17.6</u>	<u>352</u>	<u>7.20</u>	<u>22.0</u>	<u>870</u>	
<u>0930</u>	<u>30</u>	<u>17.6</u>	<u>528</u>	<u>7.19</u>	<u>22.1</u>	<u>868</u>	
							<u>Pump Off</u>

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)
<u>Hoban</u>	<u>0930</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Tap</u>	<u>X</u>
<u>Dup-072522</u>	<u>0930</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Tap</u>	<u>X</u>

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: 1235

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/13/2022
 Well ID: HOWARD NR Weather: 77°F Sunny
 ADWR No: NR Sampler: 35

WELL DATA		
Well Depth (ft bls):	<u>220'</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>163.37'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>83.25_{x3} = 250</u>	2 0.16
Total Volume Purged (gal):		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)
<u>WLO</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/2022
 Well ID: KEEPER Weather: 83°F Sunny
 ADWR No: 209744 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>245'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>147.47'</u>	2	0.16
Casing Volume (gal): <u>143.37 x3 = 431</u>	4	0.65
Total Volume Purged (gal): <u>458</u>	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
<u>1041</u>	Pump On						
<u>1042</u>	<u>1</u>	<u>7</u>	<u>7</u>	<u>7.74</u>	<u>21.7</u>	<u>504.8</u>	
<u>1104</u>	<u>23</u>	<u>8</u>	<u>183</u>	<u>7.55</u>	<u>20.7</u>	<u>511.2</u>	
<u>1110</u>	<u>32</u>	<u>8</u>	<u>263</u>	<u>7.53</u>	<u>20.4</u>	<u>509.9</u>	
<u>1126</u>	<u>45</u>	<u>7</u>	<u>354</u>	<u>7.50</u>	<u>21.0</u>	<u>508.1</u>	
<u>1135</u>	<u>54</u>	<u>8</u>	<u>426</u>	<u>7.47</u>	<u>20.8</u>	<u>510.2</u>	
							Pump Off <u>1139</u>

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)
<u>KEEPER</u>	<u>1139</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>
<u>DUPJQ</u>	<u>1139</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Phone number (520)554-6814 is good.



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-22-22
 Well ID: LADD-251 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Swann

WELL DATA		
Well Depth (ft bls): _____	Casing Capacity	
Casing Diameter (in): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>225.65</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.85
	5	1.02
	6	1.47
	8	2.61
	10	4.08
Total Volume Purged (gal): _____	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 parameters stabilized.
 Purged well until field parameters stabilized.
 Other: _____

Additional Comments: SWL only

M. J. J. #2



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-22-22
 Well ID: LADD-435 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Skewes

WELL DATA		
Well Depth (ft bls): _____	Casing Capacity	
Casing Diameter (in): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>254.47</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
	5	1.02
	6	1.47
	8	2.61
	10	4.08
Total Volume Purged (gal): _____	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 parameters stabilized.
 Purged well until field parameters stabilized.
 Other: _____

Additional Comments: SWL only

Stevenson wellmill



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-22-22
 Well ID: LADD-538 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Sherman

WELL DATA

Well Depth (ft bls): _____ Casing Diameter (in): _____ Static Water Level (ft bmp): <u>209.33</u> Casing Volume (gal): _____ x3 = _____ Total Volume Purged (gal): _____	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
	2	0.16
	4	0.85
	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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: Swk - only
At Ladd house

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-22-22
 Well ID: LADP-635 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Shuman

WELL DATA		
Well Depth (ft bls):	Casing Capacity	
	Nominal Size (Inches)	Gallons per Linear Foot
Casing Diameter (in):	2	0.16
Static Water Level (ft bmp): <u>NO ACCESS</u>	4	0.65
Casing Volume (gal): <u>x3 =</u>	5	1.02
	6	1.47
	8	2.61
	10	4.08
Casing Volume = gallons/foot * water column (feet)		
Total Volume Purged (gal):		

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

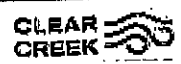
Water level measurement collected.
 No water level measurement collected. No access to wellhead/No port in wellhead
 No water level measurement collected. Obstruction in well.
 No water level measurement collected. Well is pumping.
 Other:

WELL PURGING INFORMATION

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

Additional Comments:

WSS-2015-01



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-22-22
 Well ID: LADD-837 Weather: Sunny
 ADWR No: _____ Sampler: Christopher & Sherry

WELL DATA		
Well Depth (ft bls): _____	Casing Capacity	
Casing Diameter (in): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>295.82</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWL only

State well



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-22-22
 Well ID: LADD-977 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Slawson

WELL DATA		
Well Depth (ft bls): _____	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): _____	2	0.16
Static Water Level (ft bmp): <u>88.76</u>	4	0.65
	5	1.02
Casing Volume (gal): _____ x3 = _____	6	1.47
	8	2.61
Total Volume Purged (gal): _____	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

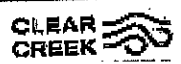
Water level measurement collected.
 No water level measurement collected. No access to wellhead/No port in wellhead
 No water level measurement collected. Obstruction in well.
 No water level measurement collected. Well is pumping.
 Other: _____

WELL PURGING INFORMATION

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

Additional Comments: SWt only

old house well



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/2022
 Well ID: MECONNEL-265 Weather: 83° F, partly cloudy
 ADWR No: 539265 Sampler: JS

WELL DATA		
Well Depth (ft bls): <u>216'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>169.66'</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
							<div style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg); position: absolute; top: 50%; left: 50%;"> well inoperable </div>
							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)
<u>W/O</u>							

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:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/2022
 Well ID: MCCONNEL-459 Weather: 83°F Partly cloudy
 ADWR No: 221459 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>863'</u>	Casing Capacity
Casing Diameter (in):	<u>5"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>179.50</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>697.17 x3 = 2092</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<u>0916</u>	<u>Pump On</u>						
<u>0921</u>	<u>5</u>	<u>7</u>	<u>35</u>	<u>8.23</u>	<u>24.5</u>	<u>451.1</u>	
<u>0942</u>	<u>26</u>	<u>7</u>	<u>182</u>	<u>8.06</u>	<u>25.1</u>	<u>444.4</u>	
<u>1021</u>	<u>105</u>	<u>9</u>	<u>893</u>	<u>8.05</u>	<u>25.2</u>	<u>450.8</u>	<u>hose kink fixed</u>
<u>1059</u>	<u>143</u>	<u>8</u>	<u>1,197</u>	<u>8.04</u>	<u>26.4</u>	<u>449.6</u>	
<u>1111</u>	<u>155</u>	<u>8</u>	<u>1,293</u>	<u>8.03</u>	<u>25.8</u>	<u>449.7</u>	
<u>1121</u>	<u>165</u>	<u>9</u>	<u>1,383</u>	<u>8.03</u>	<u>25.7</u>	<u>450.0</u>	
							<u>Pump Off 1126</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>MCCONNEL-459</u>	<u>1126</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:	

WELL PURGING INFORMATION	
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input checked="" type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:	

Additional Comments: MYRON callibrated at 0912. Number for Bryan McConnell is good 8' drop in static WL from last year? possible draw down from pumping.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/22
 Well ID: METZLER Weather: Clear 90s
 ADWR No: 35-71891 Sampler: GW

WELL DATA		
Well Depth (ft bls): <u>351</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>6</u>	2	0.16
Static Water Level (ft bmp): <u>DRY(?) * 298.22</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>x3 =</u>	6	1.47
	8	2.61
Total Volume Purged (gal):	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: WLG

Additional Comments:
* Sounder line stacked at 325'
Sounder sensitivity was set too low. Came back and got WL

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/2022
 Well ID: MOORE Weather: 89°F Sunny
 ADWR No: 538847 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>220'</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>159.46'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>88.99 x3 = 267</u>	2: 0.16
Total Volume Purged (gal):	<u>319</u>	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
<u>1221</u>	<u>Pump On</u>						
<u>1230</u>	<u>9</u>	<u>10</u>	<u>90</u>	<u>7.41</u>	<u>25.9</u>	<u>454.6</u>	
<u>1239</u>	<u>18</u>	<u>11</u>	<u>189</u>	<u>7.34</u>	<u>22.8</u>	<u>450.1</u>	
<u>1244</u>	<u>23</u>	<u>10</u>	<u>239</u>	<u>7.41</u>	<u>21.7</u>	<u>447.9</u>	
<u>1247</u>	<u>25</u>	<u>10</u>	<u>269</u>	<u>7.40</u>	<u>21.9</u>	<u>448.9</u>	
<u>1249</u>	<u>27</u>	<u>10</u>	<u>289</u>	<u>7.39</u>	<u>21.5</u>	<u>449.4</u>	
							<u>Pump Off 1252</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>MOORE</u>	<u>1252</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: Access to sand well under a panel. No screwdriver necessary

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/14/22
 Well ID: NESS Weather: Clear 80s
 ADWR No: 509127 Sampler: GR

WELL DATA		
Well Depth (ft bls): <u>812</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>NA (Possibly Dry)</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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						
				7.68	27.8	554.2	
	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: <u>Spigot in back of steel by booster pump</u>			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>NESS</u>	<u>1030</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping <input checked="" type="checkbox"/> Other: <u>Dry(?) Possible issue w/ sand</u>	

WELL PURGING INFORMATION	
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>Grabbed sample from tank</u>	

Additional Comments:



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7/28/22
 Well ID: NSD-02 Weather: Cloudy
 ADWR No: _____ Sampler: _____

WELL DATA		
Well Depth (ft bls): <u>/</u>	Casing Capacity	
Casing Diameter (in): <u>/</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>111.65</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal): <u>/</u>	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
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WLO</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7/28/22
 Well ID: NSD -03 Weather: Cloudy
 ADWR No: _____ Sampler: BJD

WELL DATA		
Well Depth (ft bls): _____	Casing Capacity	
Casing Diameter (in): _____	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>NO WL</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input checked="" type="checkbox"/> Other: <u>did not hit water</u>

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other: _____

Additional Comments: Did not hit water. Sounder was up to 107 ft

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/14/22
 Well ID: NWC-02 Weather: clear 80s
 ADWR No: 562944 Sampler: GM

WELL DATA		
Well Depth (ft bls):	<u>312</u>	Casing Capacity
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)
Static Water Level (ft bmp):		Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<u>Auto</u>	<u>Pump On</u>						
<u>0805</u>		<u>92</u>		<u>7.49</u>	<u>26.4</u>	<u>422.1</u>	
<u>0810</u>		<u>92</u>		<u>7.44</u>	<u>26.8</u>	<u>422.9</u>	
<u>0815</u>		<u>92</u>		<u>7.51</u>	<u>26.0</u>	<u>422.2</u>	
							<u>Pump Off</u>

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)
<u>NWC-02</u>	<u>0816</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Tube too narrow

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: Vacuum Filtered



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/14/22
 Well ID: NWC-04 Weather: Clear 80s
 ADWR No: 551849 Sampler: Gull

WELL DATA		
Well Depth (ft bls): <u>462</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>10</u>	2	0.16
	4	0.65
Static Water Level (ft bmp): <u>1WL</u>	5	1.02
	6	1.47
Casing Volume (gal): <u> </u> x3 =	8	2.61
	10	4.08
Total Volume Purged (gal): <u> </u>	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						
<u>0855</u>				<u>7.42</u>	<u>26.0</u>	<u>816.1</u>	
<u>0900</u>				<u>7.41</u>	<u>25.4</u>	<u>821.9</u>	
<u>0905</u>				<u>7.42</u>	<u>25.5</u>	<u>819.9</u>	
							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)
<u>NWC-04</u>	<u>0906</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Vacuum filtered



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/14/22
 Well ID: NWC-06 Weather: Clear 80s
 ADWR No: 575700 Sampler: GA

WELL DATA

Well Depth (ft bis): <u>340</u>	Casing Capacity	
Casing Diameter (in): <u>8</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>175.62 (Pumping)</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
<u>Auto</u>	<u>Pump On</u>						
<u>0720</u>		<u>134</u>		<u>7.25</u>	<u>22.5</u>	<u>405.9</u>	
<u>0725</u>		<u>134</u>		<u>7.47</u>	<u>22.3</u>	<u>392.4</u>	
<u>0730</u>		<u>135</u>		<u>7.46</u>	<u>22.3</u>	<u>392.0</u>	
<u>0735</u>		<u>135</u>		<u>7.45</u>	<u>22.8</u>	<u>391.4</u>	
<u>Auto</u>	<u>Pump Off</u>						

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

SAMPLE INFORMATION

Sample Collection Point: <u>Spigot at / near wellhead</u>		Other:					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>NWC-06</u>	<u>0735</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>
<u>DUP20220714</u>	<u>0736</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Vacuum filtered

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/2022
 Well ID: OLMOS Weather: 95° P, Partly cloudy
 ADWR No: 224745 Sampler: JS

WELL DATA		
Well Depth (ft bls): <u>306'</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>6"</u>	2	0.16
Static Water Level (ft bmp): <u>153.29'</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>224.48 x3 = 674</u>	6	1.47
	8	2.61
Total Volume Purged (gal): <u>841</u>	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
<u>1433</u>	<u>Pump On</u>						
<u>1438</u>	<u>5</u>	<u>12</u>	<u>60</u>	<u>7.49</u>	<u>21.6</u>	<u>423.4</u>	
<u>1443</u>	<u>10</u>	<u>14</u>	<u>130</u>	<u>7.45</u>	<u>20.7</u>	<u>425.9</u>	
<u>1450</u>	<u>17</u>	<u>12</u>	<u>214</u>	<u>7.21</u>	<u>20.6</u>	<u>422.5</u>	
<u>1457</u>	<u>24</u>	<u>12</u>	<u>298</u>	<u>7.32</u>	<u>20.5</u>	<u>429.8</u>	
<u>1516</u>	<u>43</u>	<u>12</u>	<u>526</u>	<u>7.51</u>	<u>20.8</u>	<u>433.8</u>	
<u>1525</u>	<u>52</u>	<u>12</u>	<u>634</u>	<u>7.50</u>	<u>20.6</u>	<u>439.4</u>	
<u>1530</u>	<u>57</u>	<u>12</u>	<u>694</u>	<u>7.43</u>	<u>20.6</u>	<u>440.1</u>	
<u>1533</u>	<u>60</u>	<u>13</u>	<u>733</u>	<u>7.34</u>	<u>20.5</u>	<u>442.6</u>	
<u>1537</u>	<u>64</u>	<u>12</u>	<u>781</u>	<u>7.39</u>	<u>20.5</u>	<u>441.3</u>	<u>Pump Off 1542</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>OLMOS</u>	<u>1542</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: 7/8/22
 Well ID: DALMER Weather: Clear 90s
 ADWR No: 578819 Sampler: GL

WELL DATA		
Well Depth (ft bls): <u>220</u>	Casing Capacity	
Casing Diameter (in): <u>IWL</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>NA</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
<u>UA</u>	<u>Pump On</u>						
<u>1250</u>		<u>NA</u>	<u>NA</u>	<u>7.85</u>	<u>37.6</u>	<u>534.6</u>	
							<u>Pump Off</u>

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 <u>Other</u> <u>Sampled off tank</u>					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>PALMER</u>	<u>1255</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Sampled off storage tank

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/22
 Well ID: PANAGAKOS Weather: Clear, 80s
 ADWR No: 35-76413 Sampler: GK

WELL DATA		
Well Depth (ft bls): <u>200</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>8</u>	2	0.16
Static Water Level (ft bmp): <u>168.09 (Possibly pumping)</u>	4	0.65
	5	1.02
Casing Volume (gal): <u>83. x3 = 250</u>	6	1.47
	8	2.61
Total Volume Purged (gal):	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
<u>0840</u>	Pump On						
<u>0845</u>	<u>5</u>	<u>4*</u>	<u>20</u>	<u>7.08</u>	<u>21.2</u>	<u>1416</u>	
<u>0900</u>	<u>20</u>	<u>4*</u>	<u>80</u>	<u>7.01</u>	<u>21.6</u>	<u>1410</u>	
<u>0913</u>	<u>33</u>	<u>4*</u>	<u>132</u>	<u>7.02</u>	<u>22.4</u>	<u>1408</u>	
<u>0920</u>	<u>40</u>	<u>4*</u>	<u>160*</u>				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: <u>Spigot off back of house</u>		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>PANAGAKOS</u>	<u>0920</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: * Backyard is flooded. Possible break in line reducing flow out spigot (?) Owner says there is slow leak
Based on historic flow rate (~10gpm) we achieved 3 casing volumes

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 9/12/22
 Well ID: PIONEER 395 Weather: Clear 90s
 ADWR No: 613395 Sampler: Gile

WELL DATA		
Well Depth (ft bls): <u>330</u>	Casing Capacity	
Casing Diameter (in): <u>161.90</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>↓</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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
							<div style="font-size: 2em; opacity: 0.5;">Well</div> <div style="font-size: 3em; opacity: 0.5;">Inoperable</div>
							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)
<u>W10</u>							

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected Well is pumping. <input type="checkbox"/> Other: _____

WELL PURGING INFORMATION
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>WIS</u>

Additional Comments: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/22
 Well ID: PIONKE 517 Weather: Clear, 90s
 ADWR No: 221517 Sampler: GIL

WELL DATA		Casing Capacity	
		Nominal Size (inches)	Gallons per Linear Foot
Well Depth (ft bls):	<u>604</u>	2	0.16
Casing Diameter (in):	<u>5</u>	4	0.65
Static Water Level (ft bmp):	<u>158.65</u>	5	1.02
Casing Volume (gal):	<u>454</u> x3 = <u>1362</u>	6	1.47
Total Volume Purged (gal):	<u>1440</u>	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
<u>1250</u>	<u>Pump On</u>						
<u>1300</u>	<u>10</u>	<u>8</u>	<u>80</u>	<u>7.56</u>	<u>24.0</u>	<u>380.5</u>	
<u>1320</u>	<u>30</u>	<u>8</u>	<u>240</u>	<u>7.60</u>	<u>25.3</u>	<u>381.1</u>	
<u>1350</u>	<u>60</u>	<u>8</u>	<u>480</u>				
<u>1420</u>	<u>90</u>	<u>8</u>	<u>720</u>	<u>7.57</u>	<u>25.5</u>	<u>378.6</u>	
<u>1450</u>	<u>120</u>	<u>8</u>	<u>960</u>				
<u>1520</u>	<u>150</u>	<u>8</u>	<u>1200</u>	<u>7.59</u>	<u>25.6</u>	<u>376.3</u>	
<u>1550</u>	<u>180</u>	<u>8</u>	<u>1440</u>	<u>7.49</u>	<u>25.5</u>	<u>379.0</u>	
<u>1555</u>							<u>Pump Off</u>

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 <u>Other: off back of P-tank shed</u>					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>PIONKE 517</u>	<u>1555</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 7/12/2022
 Well ID: POOL Weather: 92° F, partly cloudy
 ADWR No: 509518 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>313'</u> Casing Diameter (in): <u>6"</u> 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						
							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: Access to property unavailable. Property ownership seems to be in transition.

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/22
 Well ID: POWERS 639 Weather: Clear 90s
 ADWR No: 222639 Sampler: GL

WELL DATA		
Well Depth (ft bls):	<u>480</u>	Casing Capacity
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>299.06</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>266</u> x3 = <u>798</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<u>1455</u>	<u>Pump On</u>						
<u>1500</u>	<u>5</u>	<u>13</u>	<u>65</u>	<u>7.92</u>	<u>24.6</u>	<u>475.6</u>	
<u>1515</u>	<u>20</u>	<u>13</u>	<u>260</u>	<u>7.74</u>	<u>24.2</u>	<u>512.7</u>	
<u>1530</u>	<u>35</u>	<u>13</u>	<u>455</u>	<u>7.57</u>	<u>26.1</u>	<u>676.6</u>	
<u>1545</u>	<u>50</u>	<u>13</u>	<u>650</u>	<u>7.54</u>	<u>26.1</u>	<u>703.8</u>	<u>wait 15 to see if µS ↑</u>
<u>1600</u>	<u>65</u>	<u>13</u>	<u>845</u>	<u>7.42</u>	<u>24.6</u>	<u>773.7</u>	
<u>1615</u>	<u>80</u>	<u>13</u>	<u>1040</u>	<u>7.42</u>	<u>23.9</u>	<u>802.9</u>	
<u>1630</u>	<u>95</u>	<u>13</u>	<u>1235</u>	<u>7.384</u>	<u>24.2</u>	<u>822.0</u>	
<u>1645</u>	<u>110</u>	<u>13</u>	<u>1430</u>	<u>7.38</u>	<u>24.0</u>	<u>828.4</u>	
<u>1647</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at 7' near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>POWER 639</u>	<u>1647</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: 7/7/2022
 Well ID: RAMIREZ Weather: 91° Sunny
 ADWR No: 216425 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>300'</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>171.94</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>188.25 x3 = 565</u>	2: 0.16
Total Volume Purged (gal):	<u>176</u>	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
<u>1343</u>	<u>Pump On</u>						
<u>1349</u>	<u>6</u>	<u>11</u>	<u>66</u>	<u>7.51</u>	<u>22.4</u>	<u>405.2</u>	
<u>1350</u>	<u>7</u>	<u>11</u>	<u>77</u>	<u>7.55</u>	<u>22.0</u>	<u>409.2</u>	
<u>1351</u>	<u>8</u>	<u>11</u>	<u>88</u>	<u>7.53</u>	<u>21.8</u>	<u>406.1</u>	
<u>1352</u>	<u>9</u>	<u>11</u>	<u>99</u>	<u>7.55</u>	<u>21.8</u>	<u>405.8</u>	
							<u>Pump Off 1359</u>

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)
<u>RAMIREZ</u>	<u>1359</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: Indoor well. Limited discharge to limit ecosystem inside shed & exposure to structure (w/works) to water. Owner prefers to be kept apprised of WL.



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/6/2022
 Well ID: RAY Weather: 98°F, Sunny 14% humidity
 ADWR No: 803772 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>100'</u>	Casing Capacity
Casing Diameter (in):	<u>8"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>52.28*</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>124.55 x 3 = 374</u>	2: 0.16
Total Volume Purged (gal):	<u>392</u>	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
<u>1447</u>	<u>Pump On</u>						
<u>1453</u>	<u>6</u>	<u>7</u>	<u>42</u>	<u>7.03</u>	<u>22.0</u>	<u>1545</u>	
<u>1458</u>	<u>5</u>	<u>7</u>	<u>77</u>	<u>7.12</u>	<u>21.8</u>	<u>1936</u>	
<u>1506</u>	<u>8</u>	<u>7</u>	<u>133</u>	<u>7.18</u>	<u>21.4</u>	<u>1484</u>	<u>Bronny in color</u>
<u>1521</u>	<u>15</u>	<u>7</u>	<u>238</u>	<u>7.22</u>	<u>26.4</u>	<u>1493</u>	
<u>1530</u>	<u>9</u>	<u>7</u>	<u>301</u>	<u>7.20</u>	<u>22.6</u>	<u>1497</u>	
<u>1542</u>	<u>12</u>	<u>7</u>	<u>385</u>	<u>7.17</u>	<u>21.4</u>	<u>1509</u>	
							<u>Pump Off 1543</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>RAY</u>	<u>1548</u>	<u>Poly</u>	<u>250 mL</u>	<u>1</u>	<u>300.0</u>	<u>N</u>	<u>Y</u>

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: Purged 3 well volumes

Additional Comments: * Measured to top of casing. Slide metal plate over

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/8/2022
 Well ID: ROGERS-596 Weather: 89°F Partly Cloudy
 ADWR No: 573596 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>290'</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>146.20'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>214.91 x3 = 645</u>	2
Total Volume Purged (gal):	<u>663</u>	4
		5
		6
		8
		10
		16
		20
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
<u>1022</u>	<u>Pump On</u>						
<u>1028</u>	<u>6</u>	<u>3</u>	<u>18</u>	<u>6.89</u>	<u>25.7</u>	<u>1543</u>	
<u>1033</u>	<u>9</u>	<u>5</u>	<u>43</u>	<u>6.93</u>	<u>25.1</u>	<u>1538</u>	
<u>1114</u>	<u>52</u>	<u>5</u>	<u>258</u>	<u>7.04</u>	<u>24.3</u>	<u>1533</u>	
<u>1158</u>	<u>96</u>	<u>5</u>	<u>478</u>	<u>7.03</u>	<u>23.7</u>	<u>1419</u>	
<u>1202</u>	<u>100</u>	<u>5</u>	<u>498</u>	<u>7.02</u>	<u>23.3</u>	<u>1428</u>	
<u>1219</u>	<u>117</u>	<u>5</u>	<u>583</u>	<u>6.97</u>	<u>23.9</u>	<u>1407</u>	
<u>1222</u>	<u>120</u>	<u>5</u>	<u>598</u>	<u>6.97</u>	<u>24.0</u>	<u>1401</u>	
<u>1231</u>	<u>129</u>	<u>5</u>	<u>643</u>	<u>6.96</u>	<u>23.7</u>	<u>1386</u>	
							<u>Pump Off 1235</u>

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)
<u>ROGERS-596</u>	<u>1235</u>	<u>Poly</u>	<u>250 ml</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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 adjacent to ROGERS-803



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/8/2022
 Well ID: ROGERS - 803 Weather: 89° F Partly Cloudy
 ADWR No: 641803 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>140'</u>	Casing Capacity	
Casing Diameter (in): <u>6"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>Dry</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
<i>Well inoperable</i>							
							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)
W10							

WATER LEVEL MEASUREMENT COLLECTION	
<input type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input checked="" type="checkbox"/> Other: <u>Well is dry</u>	

WELL PURGING INFORMATION	
<input type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input checked="" type="checkbox"/> Other: <u>W10</u>	

Additional Comments: Well in shed



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/11/22
 Well ID: ROGERS E Weather: Overcast 90s
 ADWR No: 216018 Sampler: GK

WELL DATA			
Well Depth (ft bls): <u>285</u>	Casing Capacity		
	Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>162.58</u>		2	0.16
Casing Volume (gal): <u>180</u> x3 = <u>540</u>		4	0.65
		5	1.02
Total Volume Purged (gal): <u>616</u>		<u>6</u>	<u>1.47</u>
		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
<u>1456</u>	Pump On						
<u>1500</u>	<u>4</u>	<u>14</u>	<u>56</u>	<u>7.34</u>	<u>24.7</u>	<u>480.5</u>	
<u>1510</u>	<u>14</u>	<u>14</u>	<u>196</u>	<u>7.29</u>	<u>23.4</u>	<u>468.0</u>	
<u>1520</u>	<u>24</u>	<u>14</u>	<u>236</u>	<u>7.43</u>	<u>23.0</u>	<u>468.7</u>	
<u>1530</u>	<u>34</u>	<u>14</u>	<u>476</u>	<u>7.47</u>	<u>22.4</u>	<u>467.8</u>	
<u>1540</u>	<u>44</u>	<u>14</u>	<u>616</u>	<u>7.43</u>	<u>22.0</u>	<u>470.3</u>	
							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:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>ROGERS E</u>	<u>1544</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION
<input checked="" type="checkbox"/> Water level measurement collected. <input type="checkbox"/> No water level measurement collected. No access to wellhead/No port in wellhead <input type="checkbox"/> No water level measurement collected. Obstruction in well. <input type="checkbox"/> No water level measurement collected. Well is pumping. <input type="checkbox"/> Other:

WELL PURGING INFORMATION
<input checked="" type="checkbox"/> Purged 3 well volumes and field parameters stabilized. <input type="checkbox"/> Purged 3 well volumes based on previous water level and field parameters stabilized. <input type="checkbox"/> Purged well until field parameters stabilized. <input type="checkbox"/> Other:

Additional Comments: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/22
 Well ID: RUIZ Weather: Clear 90s
 ADWR No: 531770 Sampler: Gk

WELL DATA		
Well Depth (ft bls): <u>312</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>IWL - capped</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal): _____	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
							<div style="font-size: 2em; opacity: 0.5;"> well Inoperable </div>
							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)
<u>WIO</u>							

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: _____



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/12/22
 Well ID: RUIZ 146 Weather: Clear 80s
 ADWR No: 232146 Sampler: Gk

WELL DATA		
Well Depth (ft bls):	<u>500</u>	Casing Capacity
Casing Diameter (in):	<u>6</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>303.12</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>290</u> x3 = <u>870</u>	2 0.16
Total Volume Purged (gal):	<u>* 85</u>	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
<u>1102</u>	<u>Pump On</u>						
<u>1105</u>	<u>3</u>	<u>5*</u>	<u>15</u>	<u>7.25</u>	<u>30.0</u>	<u>633.0</u>	
<u>1110</u>	<u>7</u>	<u>5*</u>	<u>35</u>	<u>7.33</u>	<u>24.9</u>	<u>590.8</u>	
<u>1115</u>	<u>12</u>	<u>5*</u>	<u>60</u>	<u>7.35</u>	<u>22.3</u>	<u>614.9</u>	
<u>1120</u>	<u>17</u>	<u>5*</u>	<u>85</u>	<u>7.27</u>	<u>23.0</u>	<u>620.08</u>	
<u>1122</u>							<u>Pump Off</u>

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 <u>other Spigot on pipe up to tank</u>					
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>RUIZ 146</u>	<u>1122</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>y</u>

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: * 1/2 discharge going to tank



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/13/22
 Well ID: SCHWARTZ Weather: Clear 80s
 ADWR No: 210865 Sampler: GK

WELL DATA			Casing Capacity	
Well Depth (ft bls):	Casing Diameter (in):	Static Water Level (ft bmp):	Nominal Size (inches)	Gallons per Linear Foot
<u>305</u>	<u>6</u>	<u>135.16</u>	2	0.16
			4	0.65
			5	1.02
			<u>6</u>	<u>1.4</u>
			8	2.61
Casing Volume (gal): <u>250</u> x3 = <u>750</u>			10	4.08
Total Volume Purged (gal): <u>780</u>			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
<u>0840</u>	<u>Pump On</u>						
<u>0845</u>	<u>5</u>	<u>13</u>	<u>65</u>	<u>7.28</u>	<u>21.9</u>	<u>687.0</u>	
<u>0855</u>	<u>15</u>	<u>13</u>	<u>195</u>	<u>7.41</u>	<u>22.0</u>	<u>688.0</u>	
<u>0910</u>	<u>30</u>	<u>13</u>	<u>390</u>	<u>7.63</u>	<u>22.1</u>	<u>6704.9</u>	
<u>0925</u>	<u>45</u>	<u>13</u>	<u>585</u>	<u>7.46</u>	<u>22.4</u>	<u>707.4</u>	
<u>0940</u>	<u>60</u>	<u>13</u>	<u>780</u>	<u>7.35</u>	<u>22.8</u>	<u>715.2</u>	
<u>0945</u>							<u>Pump Off</u>

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 <u>1</u> near wellhead			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>SCHWARTZ</u>	<u>0945</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.6</u>	<u>NP</u>	<u>Y</u>

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: 7/21/22
 Well ID: TERRY Weather: WA
 ADWR No: 229470 Sampler: GMC

WELL DATA		
Well Depth (ft bls):	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>NPA</u>	2	0.16
Static Water Level (ft bmp):	4	0.65
Casing Volume (gal): <u>x3 =</u>	5	1.02
	6	1.47
Total Volume Purged (gal):	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
<u>No Property Access</u>							
							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)
<u>NPA</u>							

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: Owner requests we come back in September.

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/2022
 Well ID: THOMPSON - 15' Weather: 94°F & Sunny
 ADWR No: 612151 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>210'</u>	Casing Capacity
Casing Diameter (in):	<u>7"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>2WL</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
							<u>WLO</u>
							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)
<u>WLO</u>							

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: Obstruction around 150'

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/7/2022
 Well ID: THOMPSON ~341 Weather: 94°F & sunny
 ADWR No: 218341 Sampler: JS

WELL DATA		
Well Depth (ft bls):	<u>285'</u>	Casing Capacity
Casing Diameter (in):	<u>7"</u>	Nominal Size (inches)
Static Water Level (ft bmp):	<u>173.44'</u>	Gallons per Linear Foot
Casing Volume (gal):	<u>x3 =</u>	2
Total Volume Purged (gal):		4
		5
		6
		8
		10
		16
		20
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
<u>1530</u>	<u>Pump On</u>						
<u>1531</u>				<u>7.47</u>	<u>22.4</u>	<u>418.2</u>	
<u>1532</u>				<u>7.47</u>	<u>21.6</u>	<u>419.2</u>	
<u>1533</u>				<u>7.41</u>	<u>21.4</u>	<u>419.4</u>	
<u>1534</u>				<u>7.38</u>	<u>21.5</u>	<u>419.3</u>	
							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: <u>Spigot at / near wellhead</u>				Other:			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>THOMPSON-341</u>	<u>1536</u>	<u>poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

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: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-26-22
 Well ID: TM-2A Weather: Partly Cloudy
 ADWR No: _____ Sampler: Christopher K Slawson

WELL DATA

Well Depth (ft bls): <u>925</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>339.34</u> Casing Volume (gal): _____ x3 = _____ Total Volume Purged (gal): _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (Inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.65</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">Casing Volume = gallons/foot * water column (feet)</p>	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 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																

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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SLW only



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-7-27
 Well ID: TM-6 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA

Well Depth (ft bls): <u>200</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>163.16</u> Casing Volume (gal): _____ x3 = _____ Total Volume Purged (gal): _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Casing Capacity</th> </tr> <tr> <th style="text-align: center;">Nominal Size (inches)</th> <th style="text-align: center;">Gallons per Linear Foot</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">2</td><td style="text-align: center;">0.16</td></tr> <tr><td style="text-align: center;">4</td><td style="text-align: center;">0.65</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">1.02</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">1.47</td></tr> <tr><td style="text-align: center;">8</td><td style="text-align: center;">2.61</td></tr> <tr><td style="text-align: center;">10</td><td style="text-align: center;">4.08</td></tr> </tbody> </table> <p style="text-align: center;">Casing Volume = gallons/foot * water column (feet)</p>	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 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																

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 parameters 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: 8-1-22
 Well ID: TM-7 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA		
Well Depth (ft bls): <u>350</u>	Casing Capacity	
Casing Diameter (in): <u>4</u>	Nominal Size (Inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>339.74</u>	2	0.16
Casing Volume (gal): <u>66 x3 = 20</u>	4	0.65
Total Volume Purged (gal): _____	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
0900	Pump On						
0902	2	10	20	7.30	22.2	620	
0912	-	-					
0914	4	10	40	7.29	22.1	622	
0924	-	-					
0926	6	10	60	7.26	22.3	622	
0936	-	-					
0938	8	10	80	7.30	22.1	624	
							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	0938	PL	250	1	300	IG	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: Clear Creek method

Additional Comments: 10.2

Breaks section every 2 min



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/18/22 - 7/19/22
 Well ID: TM-10 USBP Weather: Clear 90s
 ADWR No: 522696 Sampler: GAC

WELL DATA		
Well Depth (ft bls): <u>290</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>4</u>	2 <u>4</u> 5	0.16 <u>0.65</u> 1.02
Static Water Level (ft bmp): <u>267.402 (7/19/22)</u>	6	1.47
Casing Volume (gal): <u>15</u> x3 = <u>45</u>	8	2.61
Total Volume Purged (gal):	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
<u>1315</u>	Pump On						
<u>1319</u>	<u>4</u>	<u>~10*</u>	<u>40</u>				<u>went dry, turned off</u>
<u>1323</u>				<u>7.96</u>	<u>23.5</u>	<u>361.2</u>	
							Pump Off

sample

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)
<u>TM-10 USBP</u>	<u>1323</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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 went dry after ~4 min. Turned pump off to allow recovery and sample

Additional Comments: * started out at ~10 gpm before flow rate reduced to a trickle, well went dry

Hard Filtered Sample



Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-25-22
 Well ID: TM-15 Weather: SUNNY
 ADWR No: _____ Sampler: Christopher L Skirvin

WELL DATA		
Well Depth (ft bls): <u>325</u>	Casing Capacity	
Casing Diameter (in): <u>4</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>303.95</u>	2	0.16
Casing Volume (gal): <u>13.7 x 3 = 41</u>	4	0.65
Total Volume Purged (gal): <u>360</u>	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
<u>0615</u>	<u>Pump On</u>						
<u>0625</u>	<u>10</u>	<u>9</u>	<u>90</u>	<u>7.37</u>	<u>22.9</u>	<u>397</u>	
<u>0635</u>	<u>20</u>	<u>9</u>	<u>180</u>	<u>7.39</u>	<u>23.0</u>	<u>397</u>	
<u>0645</u>	<u>30</u>	<u>9</u>	<u>270</u>	<u>7.47</u>	<u>22.9</u>	<u>396</u>	
<u>0650</u>	<u>35</u>	<u>9</u>	<u>315</u>	<u>7.51</u>	<u>22.7</u>	<u>396</u>	
<u>0655</u>	<u>40</u>	<u>9</u>	<u>360</u>	<u>7.53</u>	<u>22.9</u>	<u>396</u>	
							<u>Pump Off</u>

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)
<u>TM-15</u>	<u>0655</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Yes</u>	<u>Y</u>

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: 211

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-26-22
 Well ID: TM-16 Weather: Partly Cloudy
 ADWR No: _____ Sampler: Christopher L Shuman

WELL DATA

Well Depth (ft bls): <u>115</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>60.99</u> 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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SLK only

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 7-25-27
 Well ID: JM-19A Weather: Sunny
 ADWR No: _____ Sampler: Christopher L. Slamm

WELL DATA

Well Depth (ft bls): <u>700</u> Casing Diameter (in): <u>4</u> Static Water Level (ft bmp): <u>219.22</u> Casing Volume (gal): <u>317</u> x3 = <u>951</u> Total Volume Purged (gal): <u>1000</u>	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
<u>0950</u>	Pump On						
<u>1005</u>	<u>15</u>	<u>25</u>	<u>375</u>	<u>7.44</u>	<u>23.9</u>	<u>520</u>	
<u>1015</u>	<u>25</u>	<u>25</u>	<u>625</u>	<u>7.40</u>	<u>24.3</u>	<u>517</u>	
<u>1030</u>	<u>40</u>	<u>25</u>	<u>1000</u>	<u>7.42</u>	<u>24.2</u>	<u>519</u>	
							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)
<u>JM-19A</u>	<u>1030</u>	<u>PL</u>	<u>250</u>	<u>1</u>	<u>300</u>	<u>Tu</u>	<u>Y</u>

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: 487.8

Groundwater Sampling Form

Project No: 287030 Client: Freeport Copper Queen Branch
 Task No: _____ Date: 9-7-27
 Well ID: TM-42 Weather: Sunny
 ADWR No: _____ Sampler: Christopher L Slawny

WELL DATA

Well Depth (ft bis): <u>250</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>5</u>	2	0.16
Static Water Level (ft bmp): <u>223.93</u>	4	0.65
	5	1.02
Casing Volume (gal): _____ x3 = _____	6	1.47
	8	2.61
Total Volume Purged (gal): _____	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 parameters stabilized.
- Purged well until field parameters stabilized.
- Other: _____

Additional Comments: SWL only

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/3/2022
 Well ID: TVI-236 Weather: 86°F partly cloudy
 ADWR No: 802 236 Sampler: SS

WELL DATA		
Well Depth (ft bls): <u>222'</u>	Casing Capacity	
Casing Diameter (in): <u>12"</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>133.75'</u>	2	0.16
Casing Volume (gal): <u>x3 =</u>	4	0.65
Total Volume Purged (gal):	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
<i>Well inoperable</i>							
							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)
<u>WLO</u>							

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 power to well



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 8/1/2022
 Well ID: TWL-713 Weather: 86°F mostly cloudy
 ADWR No: 567713 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>200'</u>	Casing Capacity
Casing Diameter (in):	<u>8"</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>138.07</u>	2 0.16
Casing Volume (gal):	x3 =	4 0.65
Total Volume Purged (gal):		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
							<u>WLO</u>
							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: WLO

Additional Comments:



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/6/22
 Well ID: WEED Weather: Clr 100
 ADWR No: 544535 Sampler: GLC

WELL DATA		
Well Depth (ft bls): <u>320</u>	Casing Capacity	
	Nominal Size (inches)	Gallons per Linear Foot
Casing Diameter (in): <u>6</u>	2	0.16
	4	0.65
Static Water Level (ft bmp): <u>IWC</u>	5	1.02
	<u>6</u>	1.47
Casing Volume (gal): <u> </u> x3 =	8	2.61
	10	4.08
Total Volume Purged (gal): <u> </u>	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
<u>1711</u>	<u>Pump On</u>						
<u>1713</u>	<u>2</u>	<u>17</u>	<u>34</u>	<u>7.79</u>	<u>22.6</u>	<u>386.5</u>	
<u>1715</u>	<u>4</u>	<u>17</u>	<u>68</u>	<u>7.75</u>	<u>21.6</u>	<u>380.6</u>	
<u>1717</u>	<u>6</u>	<u>17</u>	<u>102</u>	<u>7.73</u>	<u>21.3</u>	<u>379.7</u>	
<u>1720</u>							<u>Pump off</u>
							<u>Pump Off</u>

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: <u>Sampled off pipe to N of shaft</u>			
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>WEED</u>	<u>1718</u>	<u>POLY</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Climb ladder, open black cap, lift up yellow float to turn well on.
Hand Filtered



Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/13/22
 Well ID: WEISKOPF 802 Weather: Clear 90s
 ADWR No: _____ Sampler: GAL

WELL DATA		
Well Depth (ft bls): <u>200</u>	Casing Capacity	
Casing Diameter (in): <u>6</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>156.48</u>	2	0.16
Casing Volume (gal): _____ x3 = _____	4	0.65
Total Volume Purged (gal): _____	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
							<div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5;">/</div> 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)
<u>WLO</u>							

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: _____

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/13/22
 Well ID: WEISKOPF 897 Weather: Clear 80s
 ADWR No: 220897 Sampler: GM

WELL DATA		
Well Depth (ft bls): <u>1030</u>	Casing Capacity	
Casing Diameter (in): <u>5</u>	Nominal Size (inches)	Gallons per Linear Foot
Static Water Level (ft bmp): <u>156.16</u>	2	0.16
Casing Volume (gal): <u>892</u> $x3 = 2676$	4	0.65
Total Volume Purged (gal): <u>1800</u>	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
<u>1115</u>	<u>Pump On</u>						
<u>1120</u>	<u>5</u>	<u>10</u>	<u>50</u>	<u>7.70</u>	<u>25.0</u>	<u>390.8</u>	
<u>1150</u>	<u>35</u>	<u>10</u>	<u>350</u>	<u>7.83</u>	<u>25.4</u>	<u>1031*</u>	
<u>1220</u>	<u>65</u>	<u>10</u>	<u>650</u>	<u>7.73</u>	<u>25.8</u>	<u>386.6</u>	
<u>1250</u>	<u>95</u>	<u>10</u>	<u>950</u>	<u>7.73</u>	<u>25.2</u>	<u>387.0</u>	
<u>1320</u>	<u>125</u>	<u>10</u>	<u>1250</u>	<u>7.75</u>	<u>25.4</u>	<u>384.7</u>	
<u>1350</u>	<u>155</u>	<u>10</u>	<u>1550</u>	<u>7.74</u>	<u>26.6</u>	<u>382.6</u>	
<u>1415</u>	<u>180</u>	<u>10</u>	<u>1800</u>	<u>7.71</u>	<u>25.8</u>	<u>394.3</u>	
<u>14</u>							
<u>1420</u>							<u>Pump Off</u>

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

SAMPLE INFORMATION							
Sample Collection Point:		<u>Spigot at / near wellhead</u>			Other:		
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Filtered (y/n)
<u>WEISKOPF 897</u>	<u>1420</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300d</u>	<u>NP</u>	<u>Y</u>

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:
No slow a purge rate to achieve 3 volumes

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 7/14/2022
 Well ID: ZANDER Weather: 78° F, Sunny
 ADWR No: 205126 Sampler: SS

WELL DATA		
Well Depth (ft bls):	<u>280'</u>	Casing Capacity
Casing Diameter (in):	<u>6"</u>	Nominal Size (inches) Gallons per Linear Foot
Static Water Level (ft bmp):	<u>157.74'</u>	2 0.16
Casing Volume (gal):	<u>122.26 x3 = 367</u>	4 0.65
Total Volume Purged (gal):	<u>532</u>	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
<u>0934</u>	<u>Pump On</u>						
<u>0938</u>	<u>4</u>	<u>14</u>	<u>56</u>	<u>7.51</u>	<u>20.7</u>	<u>419.7</u>	
<u>0942</u>	<u>8</u>	<u>14</u>	<u>112</u>	<u>7.48</u>	<u>20.6</u>	<u>420.9</u>	
<u>0951</u>	<u>17</u>	<u>14</u>	<u>238</u>	<u>7.52</u>	<u>21.1</u>	<u>419.1</u>	
<u>0958</u>	<u>24</u>	<u>14</u>	<u>336</u>	<u>7.54</u>	<u>20.6</u>	<u>420.9</u>	
<u>1002</u>	<u>28</u>	<u>14</u>	<u>392</u>	<u>7.45</u>	<u>20.6</u>	<u>419.9</u>	
<u>1004</u>	<u>30</u>	<u>14</u>	<u>420</u>	<u>7.52</u>	<u>20.5</u>	<u>421.6</u>	
<u>1006</u>	<u>32</u>	<u>14</u>	<u>448</u>	<u>7.49</u>	<u>20.5</u>	<u>421.3</u>	
<u>1007</u>	<u>33</u>	<u>14</u>	<u>462</u>	<u>7.43</u>	<u>20.4</u>	<u>422.3</u>	
<u>1009</u>	<u>35</u>	<u>14</u>	<u>490</u>	<u>7.44</u>	<u>20.4</u>	<u>414.7</u>	<u>Pump Off 1012</u>

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)
<u>ZANDER</u>	<u>1015</u>	<u>Poly</u>	<u>250mL</u>	<u>1</u>	<u>300.0</u>	<u>None</u>	<u>Y</u>

WATER LEVEL MEASUREMENT COLLECTION	
<input checked="" type="checkbox"/>	Water level measurement collected.
<input type="checkbox"/>	No water level measurement collected. No access to wellhead/No port in wellhead
<input type="checkbox"/>	No water level measurement collected. Obstruction in well.
<input type="checkbox"/>	No water level measurement collected. Well is pumping.
<input type="checkbox"/>	Other:

WELL PURGING INFORMATION	
<input checked="" type="checkbox"/>	Purged 3 well volumes and field parameters stabilized.
<input type="checkbox"/>	Purged 3 well volumes based on previous water level and field parameters stabilized.
<input type="checkbox"/>	Purged well until field parameters stabilized.
<input type="checkbox"/>	Other:

Additional Comments: pH stabilized at 7.43 at 1010.

Groundwater Sampling Form

Project No: CC18.1080.00 Client: Freeport Copper Queen Branch
 Task No: 2 Date: 12/30/22
 Well ID: NWC-04 Weather: Clear 50s
 ADWR No: 551849 Sampler: GR

WELL DATA			
Well Depth (ft bls): <u>NA</u>	Casing Capacity		
Casing Diameter (in): <u>10</u>	Nominal Size (inches)	Gallons per Linear Foot	
Static Water Level (ft bmp): <u>531.05 (-0.9 for bls)</u>	2	0.16	
Casing Volume (gal): <u>x3 =</u>	4	0.65	
Total Volume Purged (gal):	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						
<u>0935</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>7.79</u>	<u>13.6</u>	<u>978.6</u>	<u>Clear</u>
	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)
<u>NWC-04</u>	<u>0935</u>	<u>Poly</u>	<u>250</u>	<u>1</u>	<u>300.0</u>	<u>NP</u>	<u>Y</u>

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: Barled grab sample well not equipped at the time

Additional Comments: Filtered w/ vacuum pump.



APPENDIX B
ANALYTICAL REPORTS



February 14, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

RE: CQB

Work Order No.: 22A0671
Order Name: CQB Quarterly
#CC18.10080.00

Dear Chris Sherman,

Turner Laboratories, Inc. received 20 sample(s) on 01/28/2022 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: 22A0671
Date Received: 01/28/2022

Order: CQB Quarterly #CC18.10080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22A0671-01	BMO-2010-3B	Ground Water	01/24/2022 1018
22A0671-02	BMO-2010-3M	Ground Water	01/24/2022 1333
22A0671-03	TM-10-USBP	Ground Water	01/24/2022 1442
22A0671-04	BMO-2015-2B	Ground Water	01/25/2022 0813
22A0671-05	BMO-2015-2BL	Ground Water	01/25/2022 0912
22A0671-06	BMO-2015-1B	Ground Water	01/25/2022 1020
22A0671-07	BMO-2015-1BL	Ground Water	01/25/2022 1055
22A0671-08	BMO-2014-4BL	Ground Water	01/25/2022 1212
22A0671-09	BMO-2014-4B	Ground Water	01/25/2022 1309
22A0671-10	KEEFER	Ground Water	01/25/2022 1447
22A0671-11	DUP20220125	Ground Water	01/25/2022 1200
22A0671-12	BMO-2014-2BL	Ground Water	01/26/2022 1112
22A0671-13	BMO-2014-2BU	Ground Water	01/26/2022 1153
22A0671-14	BMO-2014-1BU	Ground Water	01/26/2022 1253
22A0671-15	BMO-2014-1BL	Ground Water	01/26/2022 1409
22A0671-16	BMO-2014-3BL	Ground Water	01/27/2022 1017
22A0671-17	BMO-2014-3BU	Ground Water	01/27/2022 1115
22A0671-18	COOPER 988	Ground Water	01/28/2022 1221
22A0671-19	FB20220125	Ground Water	01/25/2022 1200
22A0671-20	EQB20220125	Ground Water	01/25/2022 1200

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Date Received: 01/28/2022

Case Narrative

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

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: 22A0671
Lab Sample ID: 22A0671-01

Client Sample ID: BMO-2010-3B
Collection Date/Time: 01/24/2022 1018
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

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	02/04/2022 1537	02/07/2022 1720	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-02

Client Sample ID: BMO-2010-3M
Collection Date/Time: 01/24/2022 1333
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.50	2.81	5.00		mg/L	1	02/04/2022 1537	02/07/2022 1739	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-03

Client Sample ID: TM-10-USBP
Collection Date/Time: 01/24/2022 1442
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	13.2	2.81	5.00		mg/L	1	02/04/2022 1537	02/07/2022 1758	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-04

Client Sample ID: BMO-2015-2B
Collection Date/Time: 01/25/2022 0813
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	266	28.1	50.0		mg/L	10	02/04/2022 1537	02/07/2022 1854	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-05

Client Sample ID: BMO-2015-2BL
Collection Date/Time: 01/25/2022 0912
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	309	28.1	50.0		mg/L	10	02/03/2022 1626	02/07/2022 1912	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-06

Client Sample ID: BMO-2015-1B
Collection Date/Time: 01/25/2022 1020
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

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	02/04/2022 1537	02/07/2022 1931	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-07

Client Sample ID: BMO-2015-1BL
Collection Date/Time: 01/25/2022 1055
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	262	28.1	50.0		mg/L	10	02/04/2022 1537	02/07/2022 1950	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-08

Client Sample ID: BMO-2014-4BL
Collection Date/Time: 01/25/2022 1212
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	135	28.1	50.0		mg/L	10	02/04/2022 1537	02/07/2022 2009	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-09

Client Sample ID: BMO-2014-4B
Collection Date/Time: 01/25/2022 1309
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	49.8	2.81	5.00		mg/L	1	02/04/2022 1537	02/07/2022 1817	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-10

Client Sample ID: KEEFER
Collection Date/Time: 01/25/2022 1447
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	7.32	2.81	5.00		mg/L	1	02/04/2022 1537	02/07/2022 1835	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-11

Client Sample ID: DUP20220125
Collection Date/Time: 01/25/2022 1200
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	273	28.1	50.0		mg/L	10	02/08/2022 1053	02/08/2022 1849	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-12

Client Sample ID: BMO-2014-2BL
Collection Date/Time: 01/26/2022 1112
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	397	28.1	50.0		mg/L	10	02/08/2022 1953	02/09/2022 2241	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-13

Client Sample ID: BMO-2014-2BU
Collection Date/Time: 01/26/2022 1153
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	60.9	2.81	5.00		mg/L	1	02/08/2022 1953	02/09/2022 2301	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-14

Client Sample ID: BMO-2014-1BU
Collection Date/Time: 01/26/2022 1253
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	170	28.1	50.0		mg/L	10	02/08/2022 1953	02/08/2022 2022	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-15

Client Sample ID: BMO-2014-1BL
Collection Date/Time: 01/26/2022 1409
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	164	28.1	50.0		mg/L	10	02/08/2022 1953	02/08/2022 2041	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-16

Client Sample ID: BMO-2014-3BL
Collection Date/Time: 01/27/2022 1017
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	7.83	2.81	5.00		mg/L	1	02/08/2022 1953	02/09/2022 2320	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-17

Client Sample ID: BMO-2014-3BU
Collection Date/Time: 01/27/2022 1115
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	7.08	2.81	5.00		mg/L	1	02/08/2022 1953	02/10/2022 0057	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-18

Client Sample ID: COOPER 988
Collection Date/Time: 01/28/2022 1221
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	16.3	2.81	5.00		mg/L	1	02/08/2022 1953	02/10/2022 0116	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-19

Client Sample ID: FB20220125
Collection Date/Time: 01/25/2022 1200
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

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	02/08/2022 1953	02/10/2022 0136	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Lab Sample ID: 22A0671-20

Client Sample ID: EQB20220125
Collection Date/Time: 01/25/2022 1200
Matrix: Ground Water
Order Name: CQB Quarterly #CC18.10080.00

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	02/09/2022 1821	02/10/2022 1336	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Date Received: 01/28/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2202045 - E300.0 (2.1)										
Blank (2202045-BLK1)				Prepared & Analyzed: 02/03/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202045-BS1)				Prepared & Analyzed: 02/03/2022						
Sulfate	13	5.00	mg/L	12.50		107	90-110			
LCS Dup (2202045-BSD1)				Prepared & Analyzed: 02/03/2022						
Sulfate	13	5.00	mg/L	12.50		106	90-110	1	10	
Matrix Spike (2202045-MS1)				Source: 22A0662-17		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	22		mg/L	12.50	12	76	80-120			M2
Matrix Spike (2202045-MS2)				Source: 22A0662-18		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	32		mg/L	12.50	29	19	80-120			M2
Matrix Spike (2202045-MS3)				Source: 22A0662-19		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	32		mg/L	12.50	24	63	80-120			M2
Matrix Spike (2202045-MS5)				Source: 22A0662-20RE1		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	71000	10000	mg/L	25000	68000	12	80-120			M2
Matrix Spike Dup (2202045-MSD1)				Source: 22A0662-17		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	22		mg/L	12.50	12	76	80-120		10	M2
Matrix Spike Dup (2202045-MSD2)				Source: 22A0662-18		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	33		mg/L	12.50	29	30	80-120		10	M2
Matrix Spike Dup (2202045-MSD3)				Source: 22A0662-19		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	32		mg/L	12.50	24	64	80-120		10	M2
Matrix Spike Dup (2202045-MSD5)				Source: 22A0662-20RE1		Prepared: 02/03/2022 Analyzed: 02/04/2022				
Sulfate	68000	10000	mg/L	25000	68000	1	80-120	4	10	M2
Batch 2202063 - E300.0 (2.1)										
Blank (2202063-BLK1)				Prepared & Analyzed: 02/04/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202063-BS1)				Prepared & Analyzed: 02/04/2022						
Sulfate	13	5.00	mg/L	12.50		103	90-110			
LCS Dup (2202063-BSD1)				Prepared & Analyzed: 02/04/2022						
Sulfate	12	5.00	mg/L	12.50		97	90-110	5	10	
Batch 2202098 - E300.0 (2.1)										
Blank (2202098-BLK1)				Prepared & Analyzed: 02/08/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202098-BS1)				Prepared & Analyzed: 02/08/2022						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2202098-BSD1)				Prepared & Analyzed: 02/08/2022						
Sulfate	13	5.00	mg/L	12.50		106	90-110	0.7	10	

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22A0671
Date Received: 01/28/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2202110 - E300.0 (2.1)										
Blank (2202110-BLK1)				Prepared & Analyzed: 02/09/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202110-BS1)				Prepared & Analyzed: 02/09/2022						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2202110-BSD1)				Prepared & Analyzed: 02/09/2022						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.1	10	



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 # 22A0671 DATE 1/28/22 PAGE 1 OF 2

PROJECT NAME <u>CQB Quarterly</u> # <u>CC18.10080.00</u> CONTACT NAME : <u>Chris Sherman</u> COMPANY NAME : <u>Freeport McMoRan CQB</u> ADDRESS : <u>36 Highway 92</u> CITY <u>Bisbee</u> STATE <u>AZ</u> ZIP CODE <u>85603</u> PHONE <u>520-508-7063</u> FAX <u>520-432-1395</u> SAMPLER'S SIGNATURE <u>[Signature]</u>					CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX												
					NUMBER OF CONTAINERS <u>308.6 - 504</u>												
SAMPLE I.D. DATE TIME LAB I.D. SAMPLE MATRIX*																	
<u>BMO-2010-3B</u>					<u>1</u> <u>X</u>												
<u>BMO-2010-3M</u>					<u>1</u> <u>X</u>												
<u>TM-10 USBP</u>					<u>1</u> <u>X</u>												
<u>BMO-2015-2B</u>					<u>1</u> <u>X</u>												
<u>BMO-2015-2BL</u>					<u>1</u> <u>X</u>												
<u>BMO-2015-1B</u>					<u>1</u> <u>X</u>												
<u>BMO-2015-1BL</u>					<u>1</u> <u>X</u>												
<u>BMO-2014-4BL</u>					<u>1</u> <u>X</u>												
<u>BMO-2014-4B</u>					<u>1</u> <u>X</u>												
<u>KEEFER</u>					<u>1</u> <u>X</u>												
<u>DUP20220125</u>					<u>1</u> <u>X</u>												
1. RELINQUISHED BY: <u>[Signature]</u> Signature <u>Mike Alder</u> Printed Name <u>Clear Creek Associates</u> Firm <u>1-28-22 14:20</u> Date/Time			2. RECEIVED BY: _____ Signature _____ Printed Name _____ Firm _____ Date/Time			TURNAROUND REQUIREMENTS: Standard (approx. 10 days)* Next day <u>2</u> Day <u>5</u> Day* Email Preliminary Results To: _____ * Working Days			REPORT REQUIREMENTS: <input type="checkbox"/> I. Routine Report <input type="checkbox"/> II. Report (includes DUP,MS,MSD, as required, may be charged as samples) <input type="checkbox"/> III. Date Validation Report (Includes All Raw Data) Add 10% to invoice			INVOICE INFORMATION: Account <u>X</u> Y <u> </u> N P.O. # _____ Bill to: <u>CQB</u>			SAMPLE RECEIPT: Total Containers <u>70</u> Temperature <u>5.5</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice		
3. RELINQUISHED BY: _____ Signature _____ Printed Name _____ Firm _____ Date/Time			4. RECEIVED BY: <u>[Signature]</u> Signature <u>Fernando Alday</u> Printed Name TURNER LABORATORIES, INC. Firm <u>1/28/22 1420</u> Date/Time			*LEGEND DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER			SPECIAL INSTRUCTIONS/COMMENTS: <u>1231</u> Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seals <input type="checkbox"/> Preservation Confirmation <input checked="" type="checkbox"/> ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Container Intact <input checked="" type="checkbox"/> Appropriate Head Space <input checked="" type="checkbox"/> Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No COC/Labels Agree <input checked="" type="checkbox"/> Received Within Hold Time <input checked="" type="checkbox"/> All samples filtered with a 0.45µm filter, unless noted. Copy results to Ben Daigneau & Fernando Alday.								



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 # 22A0671 DATE 1/28/22 PAGE 2 OF 2

PROJECT NAME <u>CQB Quarterly</u> # <u>CC18.10080.00</u>		CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX																			
CONTACT NAME : <u>Chris Sherman</u>		NUMBER OF CONTAINERS <u>504 - 300.2</u>																			
COMPANY NAME : <u>Freeport McMoran CQB</u>																					
ADDRESS : <u>36 Highway 92</u>																					
CITY <u>Bisbee</u> STATE <u>AZ</u> ZIP CODE <u>85603</u>																					
PHONE <u>520-508-7063</u> FAX <u>520-432-1395</u>																					
SAMPLER'S SIGNATURE <u>[Signature]</u>																					
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*																	
BMO-2014-2BL	1-26-22	11:12		GW	1	X															
BMO-2014-2BL	1-26-22	11:53		GW	1	X															
BMO-2014-1BL	1-26-22	12:53		GW	1	X															
BMO-2014-1BL	1-26-22	14:09		GW	1	X															
BMO-2014-3BL	1-27-22	10:17		GW	1	X															
BMO-2014-3BL	1-27-22	11:15		GW	1	X															
COOPER 988	1-28-22	12:21		GW	1	X															
FB20220225	1-25-22	12:00		GW		X															
EQB20220225	1-25-22	12:00		GW		X															
				GW		X															
				GW		X															

1. RELINQUISHED BY: Signature <u>[Signature]</u> Printed Name <u>Clear Creek Associates</u> Firm <u>1-28-22/14:20</u> 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 <u>X</u> v ___ N P.O. # _____ Bill to: <u>CQB</u>	SAMPLE RECEIPT: Total Containers <u>20</u> Temperature <u>5.0</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice
3. RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	4. RECEIVED BY: Signature <u>[Signature]</u> Printed Name <u>Turner Laboratories, Inc.</u> Firm <u>1/28/22 1420</u> Date/Time	*LEGEND DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER	SPECIAL INSTRUCTIONS/COMMENTS: <u>L231</u> Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seals <input type="checkbox"/> Preservation Confirmation <input checked="" type="checkbox"/> ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Container Intact <input checked="" type="checkbox"/> Appropriate Head Space <input checked="" type="checkbox"/> Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No COC/Labels Agree <input checked="" type="checkbox"/> Received Within Hold Time <input type="checkbox"/> All samples filtered with a 0.45µm filter, unless noted. Copy results to Ben Daigneau & Fernando Alday.		



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 # 22A0671 DATE 1/28/22 PAGE 1 OF 2

PROJECT NAME <u>CQB Quarterly</u> # <u>CC18.10080.00</u>					CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX																		
CONTACT NAME : <u>Chris Sherman</u>					NUMBER OF CONTAINERS <u>300.0 - 504</u>																		
COMPANY NAME : <u>Freeport McMoRan CQB</u>																							
ADDRESS : <u>36 Highway 92</u>																							
CITY <u>Bisbee</u> STATE <u>AZ</u> ZIP CODE <u>85603</u>																							
PHONE <u>520-508-7063</u> FAX <u>520-432-1395</u>																							
SAMPLER'S SIGNATURE <u>[Signature]</u>																							
SAMPLE I.D.		DATE	TIME	LAB I.D.	SAMPLE MATRIX*																		
<u>BMO-2010-3B</u>		<u>1-24-22</u>	<u>10:18</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2010-3M</u>		<u>1-24-22</u>	<u>13:33</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>FM-10 45BP</u>		<u>1-24-22</u>	<u>14:42</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2015-2B</u>		<u>1-25-22</u>	<u>08:13</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2015-2BL</u>		<u>1-25-22</u>	<u>09:12</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2015-1B</u>		<u>1-25-22</u>	<u>10:20</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2015-1BL</u>		<u>1-25-22</u>	<u>10:55</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2014-4BL</u>		<u>1-25-22</u>	<u>12:12</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>BMO-2014-4B</u>		<u>1-25-22</u>	<u>13:09</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>KEEFER</u>		<u>1-25-22</u>	<u>14:47</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
<u>DUP 20220125</u>		<u>1-25-22</u>	<u>12:00</u>		<u>GW</u>	<u>1</u>	<u>X</u>																
1. RELINQUISHED BY: <u>[Signature]</u> Signature <u>Sake Alda</u> Printed Name <u>Clear Creek Associates</u> Firm <u>1-28-22 14:20</u> Date/Time		2. RECEIVED BY: <u>[Signature]</u> Signature <u>[Printed Name]</u> Printed Name <u>[Firm]</u> Firm <u>[Date/Time]</u> Date/Time		TURNAROUND REQUIREMENTS: Standard (approx. 10 days)* Next day <input type="checkbox"/> 2 Day <input type="checkbox"/> 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 <u>X</u> <u>Y</u> <u>N</u> P.O. # Bill to: <u>CQB</u>		SAMPLE RECEIPT: Total Containers <u>70</u> Temperature <u>5.5</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice													
3. RELINQUISHED BY: <u>[Signature]</u> Signature <u>[Printed Name]</u> Printed Name <u>[Firm]</u> Firm <u>[Date/Time]</u> Date/Time		4. RECEIVED BY: <u>[Signature]</u> Signature <u>[Printed Name]</u> Printed Name <u>TURNER LABORATORIES, INC.</u> Firm <u>1/28/22 1420</u> Date/Time		*LEGEND DW = DRINKING WATER GW = GROUNDWATER SG = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER		SPECIAL INSTRUCTIONS/COMMENTS: <u>IE31</u> Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seals <input type="checkbox"/> Preservation Confirmation <input checked="" type="checkbox"/> ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Container Intact <input checked="" type="checkbox"/> Appropriate Head Space <input checked="" type="checkbox"/> Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No COC/Labels Agree <input checked="" type="checkbox"/> Received Within Hold Time <input checked="" type="checkbox"/> All samples filtered with a 0.45µm filter, unless noted. <u>no 5th hr for</u> Copy results to Ben Daigneau & Fernando Alday. <u>'06' -> on Hold until Received</u>																	



February 10, 2022

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.: 22A0674
Order Name: Ground Water

RE: Ground Water

Dear Ben Daigneau,

Turner Laboratories, Inc. received 1 sample(s) on 01/28/2022 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: Ground Water
Work Order: 22A0674
Date Received: 01/28/2022

Order: Ground Water

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22A0674-01	DODSON	Drinking Water	01/28/2022 1216

Client: Clear Creek Associates
Project: Ground Water
Work Order: 22A0674
Date Received: 01/28/2022

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: Clear Creek Associates
Project: Ground Water
Work Order: 22A0674
Lab Sample ID: 22A0674-01

Client Sample ID: DODSON
Collection Date/Time: 01/28/2022 1216
Matrix: Drinking Water
Order Name: Ground Water

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	45.4	2.81	5.00		mg/L	1	02/08/2022 1953	02/09/2022 0817	ACG

Client: Clear Creek Associates
Project: Ground Water
Work Order: 22A0674
Date Received: 01/28/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2202098 - E300.0 (2.1)										
Blank (2202098-BLK1)				Prepared & Analyzed: 02/08/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202098-BS1)				Prepared & Analyzed: 02/08/2022						
Sulfate	13	5.00	mg/L	12.50		105	90-110			
LCS Dup (2202098-BSD1)				Prepared & Analyzed: 02/08/2022						
Sulfate	13	5.00	mg/L	12.50		106	90-110	0.7	10	



February 15, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

RE: CQB

Work Order No.: 22B0032
Order Name: CQB Quarterly
CC18.10080.00

Dear Chris Sherman,

Turner Laboratories, Inc. received 11 sample(s) on 02/01/2022 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: 22B0032
Date Received: 02/01/2022

Order: CQB Quarterly CC18.10080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22B0032-01	AWC-05	Ground Water	01/31/2022 1042
22B0032-02	AWC-03	Ground Water	01/31/2022 1119
22B0032-03	AWC-04	Ground Water	01/31/2022 1147
22B0032-04	AWC-02	Ground Water	01/31/2022 1412
22B0032-05	FB20220131	Ground Water	01/31/2022 1200
22B0032-06	EQB20220131	Ground Water	01/31/2022 1200
22B0032-07	DUP20220131	Ground Water	01/31/2022 1200
22B0032-08	NWC-06	Ground Water	02/01/2022 0739
22B0032-09	NWC-04	Ground Water	02/01/2022 0812
22B0032-10	NWC-02	Ground Water	02/01/2022 0901
22B0032-11	WEED	Ground Water	02/01/2022 1014

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Date Received: 02/01/2022

Case Narrative

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

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: 22B0032
Lab Sample ID: 22B0032-01

Client Sample ID: AWC-05
Collection Date/Time: 01/31/2022 1042
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	18.4	2.81	5.00		mg/L	1	02/11/2022 1635	02/11/2022 2239	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-02

Client Sample ID: AWC-03
Collection Date/Time: 01/31/2022 1119
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	68.8	2.81	5.00		mg/L	1	02/11/2022 1635	02/11/2022 2258	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-03

Client Sample ID: AWC-04
Collection Date/Time: 01/31/2022 1147
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	24.9	2.81	5.00		mg/L	1	02/11/2022 1635	02/11/2022 2318	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-04

Client Sample ID: AWC-02
Collection Date/Time: 01/31/2022 1412
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	16.0	2.81	5.00		mg/L	1	02/11/2022 1635	02/11/2022 2337	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-05

Client Sample ID: FB20220131
Collection Date/Time: 01/31/2022 1200
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

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	02/11/2022 1635	02/11/2022 2356	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-06

Client Sample ID: EQB20220131
Collection Date/Time: 01/31/2022 1200
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

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	02/11/2022 1635	02/12/2022 0016	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-07

Client Sample ID: DUP20220131
Collection Date/Time: 01/31/2022 1200
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	16.0	2.81	5.00		mg/L	1	02/11/2022 1635	02/12/2022 0035	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-08

Client Sample ID: NWC-06
Collection Date/Time: 02/01/2022 0739
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.37	2.81	5.00		mg/L	1	02/11/2022 1635	02/12/2022 0054	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-09

Client Sample ID: NWC-04
Collection Date/Time: 02/01/2022 0812
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	181	28.1	50.0		mg/L	10	02/11/2022 1635	02/14/2022 2325	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-10

Client Sample ID: NWC-02
Collection Date/Time: 02/01/2022 0901
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.48	2.81	5.00		mg/L	1	02/11/2022 1635	02/12/2022 0250	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0032
Lab Sample ID: 22B0032-11

Client Sample ID: WEED
Collection Date/Time: 02/01/2022 1014
Matrix: Ground Water
Order Name: CQB Quarterly CC18.10080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	12.6	2.81	5.00		mg/L	1	02/11/2022 1635	02/12/2022 0310	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22B0032
 Date Received: 02/01/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2202149 - E300.0 (2.1)										
Blank (2202149-BLK1)				Prepared & Analyzed: 02/11/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202149-BS1)				Prepared & Analyzed: 02/11/2022						
Sulfate	13	5.00	mg/L	12.50		103	90-110			
LCS Dup (2202149-BSD1)				Prepared & Analyzed: 02/11/2022						
Sulfate	13	5.00	mg/L	12.50		103	90-110	0.005	10	
Matrix Spike (2202149-MS1)				Source: 22B0032-05		Prepared: 02/11/2022 Analyzed: 02/14/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120			
Matrix Spike (2202149-MS2)				Source: 22B0032-06		Prepared: 02/11/2022 Analyzed: 02/15/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120			
Matrix Spike Dup (2202149-MSD1)				Source: 22B0032-05		Prepared: 02/11/2022 Analyzed: 02/15/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120	0.5	10	
Matrix Spike Dup (2202149-MSD2)				Source: 22B0032-06		Prepared: 02/11/2022 Analyzed: 02/15/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120	0.5	10	



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 # 22B0032 DATE 2/1/22 PAGE 1 OF 1

PROJECT NAME: COB Quarterly # CC-18-10080-00

CONTACT NAME: Chris Sherman

COMPANY NAME: Freepart Memorran COB

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*
AVC-025	1/31/22	10:42		GW
AVC-023	1/31/22	11:19		GW
AVC-024	1/31/22	11:47		GW
AVC-022	1/31/22	14:12		GW
FR20220131	1/31/22	12:00		GW
EQB20220131	1/31/22	12:00		GW
QUR20220131	1/31/22	12:00		GW
NVC-026	2/1/22	07:39		GW
NVC-024	2/1/22	08:12		GW
NVC-022	2/1/22	09:01		GW
WEED	2/1/22	10:14		GW

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX	NUMBER OF CONTAINERS									
	1	2	3	4	5	6	7	8	9	10

TURNAROUND REQUIREMENTS:	Standard (approx. 10 days)*	Next day	2 Day	5 Day*
	<input checked="" type="checkbox"/>			

1. RELINQUISHED BY: _____

2. RECEIVED BY: _____

3. RELINQUISHED BY: _____

4. RECEIVED BY: _____

* LEGEND
 DW = DRINKING WATER
 GW = GROUNDWATER
 SD = SQUID
 SG = SLUDGE
 SL = SOIL
 ST = STORMWATER
 WW = WASTEWATER

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: COB

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

All samples filtered with a 0.45um filter, unless noted.
 Copy results to Ben Daigneau & Fernando Alday.



February 16, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22B0092
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 6 sample(s) on 02/02/2022 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: 22B0092
Date Received: 02/02/2022

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22B0092-01	PANAGAKOS	Ground Water	01/31/2022 1213
22B0092-02	POWER	Ground Water	01/31/2022 1416
22B0092-03	SCHWARTZ	Ground Water	02/01/2022 1020
22B0092-04	Rogers E	Ground Water	02/01/2022 1154
22B0092-05	RUIZ 146	Ground Water	02/01/2022 1353
22B0092-06	ROGERS 946	Ground Water	02/01/2022 1643

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0092
Date Received: 02/02/2022

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: 22B0092
Lab Sample ID: 22B0092-01

Client Sample ID: PANAGAKOS
Collection Date/Time: 01/31/2022 1213
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	245	28.1	50.0		mg/L	10	02/11/2022 1635	02/15/2022 0134	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0092
Lab Sample ID: 22B0092-02

Client Sample ID: POWER
Collection Date/Time: 01/31/2022 1416
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	159	28.1	50.0		mg/L	10	02/11/2022 1635	02/15/2022 0153	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0092
Lab Sample ID: 22B0092-03

Client Sample ID: SCHWARTZ
Collection Date/Time: 02/01/2022 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	162	28.1	50.0		mg/L	10	02/11/2022 1635	02/15/2022 0212	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0092
Lab Sample ID: 22B0092-04

Client Sample ID: Rogers E
Collection Date/Time: 02/01/2022 1154
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	7.65	2.81	5.00		mg/L	1	02/11/2022 1635	02/12/2022 0427	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0092
Lab Sample ID: 22B0092-05

Client Sample ID: RUIZ 146
Collection Date/Time: 02/01/2022 1353
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	89.7	2.81	5.00		mg/L	1	02/11/2022 1635	02/12/2022 0447	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0092
Lab Sample ID: 22B0092-06

Client Sample ID: ROGERS 946
Collection Date/Time: 02/01/2022 1643
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	663	28.1	50.0		mg/L	10	02/11/2022 1635	02/15/2022 0231	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22B0092
 Date Received: 02/02/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2202149 - E300.0 (2.1)										
Blank (2202149-BLK1)				Prepared & Analyzed: 02/11/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202149-BS1)				Prepared & Analyzed: 02/11/2022						
Sulfate	13	5.00	mg/L	12.50		103	90-110			
LCS Dup (2202149-BSD1)				Prepared & Analyzed: 02/11/2022						
Sulfate	13	5.00	mg/L	12.50		103	90-110	0.005	10	
Matrix Spike (2202149-MS1)				Source: 22B0032-05		Prepared: 02/11/2022 Analyzed: 02/14/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120			
Matrix Spike (2202149-MS2)				Source: 22B0032-06		Prepared: 02/11/2022 Analyzed: 02/15/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120			
Matrix Spike Dup (2202149-MSD1)				Source: 22B0032-05		Prepared: 02/11/2022 Analyzed: 02/15/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120	0.5	10	
Matrix Spike Dup (2202149-MSD2)				Source: 22B0032-06		Prepared: 02/11/2022 Analyzed: 02/15/2022				
Sulfate	13	5.00	mg/L	12.50	ND	105	80-120	0.5	10	



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 # 22B0092 DATE 2/2/22 PAGE 1 OF 1

Page 11 of 11

PROJECT NAME <u>CQB Quarterly</u> # <u>CC18.10080.00</u>					CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX																								
CONTACT NAME : <u>Chris Sherman</u>					NUMBER OF CONTAINERS	504-300.0																							
COMPANY NAME : <u>Freeport McMoran CQB</u>																													
ADDRESS : <u>36 Highway 92</u>																													
CITY <u>Bisbee</u> STATE <u>AZ</u> ZIP CODE <u>85603</u>																													
PHONE <u>520-508-7063</u> FAX <u>520-432-1395</u>																													
SAMPLER'S SIGNATURE <u>[Signature]</u>																													
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*																									
<u>PAWAGAKOS</u>	<u>1/31/22</u>	<u>1213</u>		<u>GW</u>	1	X	X																						
<u>POWER</u>	<u>1/31/22</u>	<u>1416</u>		<u>GW</u>	1	X	X																						
<u>SCHWARTZ</u>	<u>2/1/22</u>	<u>1020</u>		<u>GW</u>	1	X	X																						
<u>ROGERS E</u>	<u>2/1/22</u>	<u>1154</u>		<u>GW</u>	1	X	X																						
<u>RUIZ 146</u>	<u>2/1/22</u>	<u>1353</u>		<u>GW</u>	1	X	X																						
<u>ROGERS 946</u>	<u>2/1/22</u>	<u>1643</u>		<u>GW</u>	1	X	X																						
				<u>GW</u>		X																							
				<u>GW</u>		X																							
				<u>GW</u>		X																							
				<u>GW</u>		X																							
				<u>GW</u>		X																							
1. RELINQUISHED BY: <u>[Signature]</u> Signature <u>Chris Kilduff</u> Printed Name <u>Clear Creek Associates</u> Firm <u>2-2-22 11:17</u> 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 <u>X</u> Y ___ N P.O. # _____ Bill to: <u>CQB</u>					SAMPLE RECEIPT: Total Containers <u>4</u> Temperature <u>0.3</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice				
3. RELINQUISHED BY: _____ Signature _____ Printed Name _____ Firm _____ Date/Time					4. RECEIVED BY: <u>[Signature]</u> Signature <u>[Signature]</u> Printed Name <u>TURNER LABORATORIES, INC.</u> Firm <u>2/2/22 11:17</u> Date/Time					* LEGEND DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER					SPECIAL INSTRUCTIONS/COMMENTS: Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seals <input type="checkbox"/> Preservation Confirmation <input type="checkbox"/> ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Container Intact <input type="checkbox"/> Appropriate Head Space <input type="checkbox"/> Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No COC/Labels Agree <input checked="" type="checkbox"/> Received Within Hold Time <input type="checkbox"/> All samples filtered with a 0.45µm filter, unless noted. Copy results to Ben Daigneau & Fernando Alday.														



February 23, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22B0299
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 2 sample(s) on 02/08/2022 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: 22B0299
Date Received: 02/08/2022

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22B0299-01	EPPELE 641	Ground Water	02/08/2022 1151
22B0299-02	COB MW-2	Ground Water	02/08/2022 0956

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0299
Date Received: 02/08/2022

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: 22B0299
Lab Sample ID: 22B0299-01

Client Sample ID: EPPELE 641
Collection Date/Time: 02/08/2022 1151
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	20.8	2.81	5.00		mg/L	1	02/17/2022 1040	02/18/2022 0340	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22B0299
Lab Sample ID: 22B0299-02

Client Sample ID: COB MW-2
Collection Date/Time: 02/08/2022 0956
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	21.6	2.81	5.00		mg/L	1	02/17/2022 1040	02/18/2022 0359	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22B0299
 Date Received: 02/08/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2202225 - E300.0 (2.1)										
Blank (2202225-BLK1)				Prepared & Analyzed: 02/17/2022						
Sulfate	ND	5.00	mg/L							
LCS (2202225-BS1)				Prepared & Analyzed: 02/17/2022						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2202225-BSD1)				Prepared & Analyzed: 02/17/2022						
Sulfate	13	5.00	mg/L	12.50		104	90-110	0.05	10	
Matrix Spike (2202225-MS1)				Source: 22B0571-01		Prepared: 02/17/2022 Analyzed: 02/21/2022				
Sulfate	18	5.00	mg/L	12.50	6.8	92	80-120			
Matrix Spike (2202225-MS2)				Source: 22B0299-01		Prepared: 02/17/2022 Analyzed: 02/21/2022				
Sulfate	35	5.00	mg/L	12.50	21	112	80-120			
Matrix Spike Dup (2202225-MSD1)				Source: 22B0571-01		Prepared: 02/17/2022 Analyzed: 02/21/2022				
Sulfate	19	5.00	mg/L	12.50	6.8	97	80-120	3	10	
Matrix Spike Dup (2202225-MSD2)				Source: 22B0299-01		Prepared: 02/17/2022 Analyzed: 02/21/2022				
Sulfate	32	5.00	mg/L	12.50	21	87	80-120	9	10	



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BM0 2008-1G	X2B0070-01	Ground Water	31-Jan-22 08:00	CLS	03-Feb-2022	
BM0 2008-3B	X2B0070-02	Ground Water	31-Jan-22 09:10	CLS	03-Feb-2022	
BM0 2008-6M	X2B0070-03	Ground Water	31-Jan-22 10:35	CLS	03-Feb-2022	
BM0 2008-6B	X2B0070-04	Ground Water	31-Jan-22 11:30	CLS	03-Feb-2022	
BM0 2008-5M	X2B0070-05	Ground Water	31-Jan-22 12:45	CLS	03-Feb-2022	
BM0 2008-5B	X2B0070-06	Ground Water	31-Jan-22 13:25	CLS	03-Feb-2022	
BM0 2012-1M	X2B0070-07	Ground Water	01-Feb-22 08:40	CLS	03-Feb-2022	
BM0 2008-11 G	X2B0070-08	Ground Water	01-Feb-22 11:50	CLS	03-Feb-2022	
DUP-020122	X2B0070-09	Ground Water	01-Feb-22 11:50	CLS	03-Feb-2022	
TM-7	X2B0070-10	Ground Water	01-Feb-22 13:38	CLS	03-Feb-2022	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. 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.



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: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-1G**

SVL Sample ID: **X2B0070-01 (Ground Water)**

Sampled: 31-Jan-22 08:00

Received: 03-Feb-22

Sampled By: CLS

Sample Report Page 1 of 1

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	96.7	mg/L	3.00	1.80	10	X208182	RS	02/17/22 16:48	D2
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-3B**

Sampled: 31-Jan-22 09:10

SVL Sample ID: **X2B0070-02 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	150	mg/L	3.00	1.80	10	X208182	RS	02/17/22 19:23	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-6M**

Sampled: 31-Jan-22 10:35

SVL Sample ID: **X2B0070-03 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	208	mg/L	3.00	1.80	10	X208182	RS	02/17/22 19:43	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-6B**

Sampled: 31-Jan-22 11:30

SVL Sample ID: **X2B0070-04 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	8.90	mg/L	0.30	0.18		X208182	RS	02/17/22 17:07	
-----------	----------------	------	------	------	------	--	---------	----	----------------	--

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-5M**

Sampled: 31-Jan-22 12:45

SVL Sample ID: **X2B0070-05 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	184	mg/L	3.00	1.80	10	X208182	RS	02/17/22 20:02	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-5B**

Sampled: 31-Jan-22 13:25

SVL Sample ID: **X2B0070-06 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	280	mg/L	3.00	1.80	10	X208182	RS	02/17/22 20:22	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2012-1M**

Sampled: 01-Feb-22 08:40

SVL Sample ID: **X2B0070-07 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	235	mg/L	3.00	1.80	10	X208182	RS	02/17/22 20:41	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **BM0 2008-11 G**

Sampled: 01-Feb-22 11:50

SVL Sample ID: **X2B0070-08 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	13.2	mg/L	0.30	0.18		X208182	RS	02/17/22 18:25	M1
-----------	----------------	------	------	------	------	--	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **DUP-020122**

Sampled: 01-Feb-22 11:50

SVL Sample ID: **X2B0070-09 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	13.3	mg/L	0.30	0.18		X208182	RS	02/17/22 18:06	
-----------	----------------	------	------	------	------	--	---------	----	----------------	--

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Client Sample ID: **TM-7**

Sampled: 01-Feb-22 13:38

SVL Sample ID: **X2B0070-10 (Ground Water)**

Received: 03-Feb-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	113	mg/L	3.00	1.80	10	X208182	RS	02/17/22 21:01	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**
Reported: 18-Feb-22 16:41

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
--------	---------	-------	--------	-----	-----	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X208182	17-Feb-22	
-----------	----------------	------	-------	------	------	---------	-----------	--

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
--------	---------	-------	------------	----------	--------	-------------------	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	10.9	10.0	109	90 - 110	X208182	17-Feb-22	
-----------	----------------	------	------	------	-----	----------	---------	-----------	--

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
--------	---------	-------	--------------	-------------------	-----------------	--------	-------------------	---------------------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	24.3	13.2	10.0	111	90 - 110	X208182 - X2B0070-08	17-Feb-22	M1
-----------	----------------	------	------	------	------	-----	----------	----------------------	-----------	----

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
--------	---------	-------	------------	--------------	-------------	-----	-----------	------------	---------------------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	24.2	24.3	10.0	0.3	20	110	X208182 - X2B0070-08	
-----------	----------------	------	------	------	------	-----	----	-----	----------------------	--



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2B0070**

Reported: 18-Feb-22 16:41

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
M1	Matrix spike recovery was high, but 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



May 18, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22E0094
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 1 sample(s) on 05/03/2022 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: 22E0094
Date Received: 05/03/2022

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22E0094-01	NWC-04	Ground Water	05/03/2022 0917

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22E0094
Date Received: 05/03/2022

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: 22E0094
Lab Sample ID: 22E0094-01

Client Sample ID: NWC-04
Collection Date/Time: 05/03/2022 0917
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	170	28.1	50.0		mg/L	10	05/04/2022 1748	05/06/2022 0039	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22E0094
 Date Received: 05/03/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2205060 - E300.0 (2.1)										
Blank (2205060-BLK1)				Prepared & Analyzed: 05/04/2022						
Sulfate	ND	5.00	mg/L							
LCS (2205060-BS1)				Prepared & Analyzed: 05/04/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2205060-BSD1)				Prepared & Analyzed: 05/04/2022						
Sulfate	13	5.00	mg/L	12.50		101	90-110	0.7	10	
Matrix Spike (2205060-MS1)				Source: 22E0015-01RE1		Prepared: 05/04/2022 Analyzed: 05/06/2022				
Sulfate	570	50.0	mg/L	125.0	470	84	80-120			
Matrix Spike (2205060-MS2)				Source: 22E0140-01RE1		Prepared: 05/04/2022 Analyzed: 05/18/2022				
Sulfate	220	50.0	mg/L	125.0	110	91	80-120			
Matrix Spike Dup (2205060-MSD1)				Source: 22E0015-01RE1		Prepared: 05/04/2022 Analyzed: 05/06/2022				
Sulfate	570	50.0	mg/L	125.0	470	85	80-120	0.08	10	
Matrix Spike Dup (2205060-MSD2)				Source: 22E0140-01RE1		Prepared: 05/04/2022 Analyzed: 05/18/2022				
Sulfate	220	50.0	mg/L	125.0	110	92	80-120	0.4	10	



July 30, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22G0187
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 8 sample(s) on 07/08/2022 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: 22G0187
Date Received: 07/08/2022

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22G0187-01	RAY	Ground Water	07/06/2022 1548
22G0187-02	EAST	Ground Water	07/07/2022 0930
22G0187-03	KEEPER	Ground Water	07/07/2022 1139
22G0187-04	DUPJO	Ground Water	07/07/2022 0000
22G0187-05	MOORE	Ground Water	07/07/2022 1252
22G0187-06	RAMIREZ	Ground Water	07/07/2022 1359
22G0187-07	THOMPSON - 341	Ground Water	07/07/2022 1536
22G0187-08	ROGERS - 596	Ground Water	07/08/2022 1235

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Date Received: 07/08/2022

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: 22G0187
Lab Sample ID: 22G0187-01

Client Sample ID: RAY
Collection Date/Time: 07/06/2022 1548
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	146	28.1	50.0		mg/L	10	07/19/2022 1041	07/19/2022 1223	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-02

Client Sample ID: EAST
Collection Date/Time: 07/07/2022 0930
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	11.9	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 1704	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-03

Client Sample ID: KEEPER
Collection Date/Time: 07/07/2022 1139
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	7.42	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 1723	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-04

Client Sample ID: DUPJO
Collection Date/Time: 07/07/2022 0000
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	7.41	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 1742	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-05

Client Sample ID: MOORE
Collection Date/Time: 07/07/2022 1252
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	7.96	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 1801	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-06

Client Sample ID: RAMIREZ
Collection Date/Time: 07/07/2022 1359
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	9.12	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 1938	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-07

Client Sample ID: THOMPSON - 341
Collection Date/Time: 07/07/2022 1536
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	8.24	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 1958	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0187
Lab Sample ID: 22G0187-08

Client Sample ID: ROGERS - 596
Collection Date/Time: 07/08/2022 1235
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	541	28.1	50.0		mg/L	10	07/19/2022 1041	07/19/2022 1439	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22G0187
 Date Received: 07/08/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2207174 - E300.0 (2.1)										
Blank (2207174-BLK1)				Prepared & Analyzed: 07/19/2022						
Sulfate	ND	5.00	mg/L							
LCS (2207174-BS1)				Prepared & Analyzed: 07/19/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2207174-BSD1)				Prepared & Analyzed: 07/19/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110	0.3	10	
Matrix Spike (2207174-MS1)				Source: 22G0430-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	27	5.00	mg/L	12.50	17	80	80-120			
Matrix Spike (2207174-MS2)				Source: 22G0448-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	14	5.00	mg/L	12.50	4.6	79	80-120			M2
Matrix Spike Dup (2207174-MSD1)				Source: 22G0430-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	27	5.00	mg/L	12.50	17	80	80-120	0.1	10	M2
Matrix Spike Dup (2207174-MSD2)				Source: 22G0448-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	15	5.00	mg/L	12.50	4.6	80	80-120	0.6	10	



July 30, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

RE: CQB

Work Order No.: 22G0188
Order Name: CQB Sampling
#CC18.1080.00

Dear Chris Sherman,

Turner Laboratories, Inc. received 11 sample(s) on 07/08/2022 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: 22G0188
Date Received: 07/08/2022

Order: CQB Sampling #CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22G0188-01	DODSON	Ground Water	07/06/2022 1625
22G0188-02	WEED	Ground Water	07/06/2022 1718
22G0188-03	PANAGAKOS	Ground Water	07/07/2022 0920
22G0188-04	FRANCO 383	Ground Water	07/07/2022 1208
22G0188-05	BURKE	Ground Water	07/07/2022 1340
22G0188-06	POWER 639	Ground Water	07/07/2022 1647
22G0188-07	EQB20220707	Ground Water	07/07/2022 1735
22G0188-08	FB20220707	Ground Water	07/07/2022 1730
22G0188-09	COOPER 988	Ground Water	07/08/2022 1118
22G0188-10	DUP20220708	Ground Water	07/08/2022 1119
22G0188-11	PALMER	Ground Water	07/08/2022 1255

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Date Received: 07/08/2022

Case Narrative

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

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: 22G0188
Lab Sample ID: 22G0188-01

Client Sample ID: DODSON
Collection Date/Time: 07/06/2022 1625
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	63.7	28.1	50.0		mg/L	10	07/19/2022 1041	07/19/2022 1458	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-02

Client Sample ID: WEED
Collection Date/Time: 07/06/2022 1718
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	12.9	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 2017	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-03

Client Sample ID: PANAGAKOS
Collection Date/Time: 07/07/2022 0920
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	463	28.1	50.0		mg/L	10	07/19/2022 1041	07/19/2022 1654	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-04

Client Sample ID: FRANCO 383
Collection Date/Time: 07/07/2022 1208
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	367	28.1	50.0		mg/L	10	07/19/2022 1041	07/19/2022 1714	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-05

Client Sample ID: BURKE
Collection Date/Time: 07/07/2022 1340
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	30.6	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 2036	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-06

Client Sample ID: POWER 639
Collection Date/Time: 07/07/2022 1647
Matrix: Ground Water
Order Name: CQB Sampling #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	07/19/2022 1041	07/19/2022 1752	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-07

Client Sample ID: EQB20220707
Collection Date/Time: 07/07/2022 1735
Matrix: Ground Water
Order Name: CQB Sampling #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	07/19/2022 1041	07/21/2022 2056	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-08

Client Sample ID: FB20220707
Collection Date/Time: 07/07/2022 1730
Matrix: Ground Water
Order Name: CQB Sampling #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	07/19/2022 1041	07/21/2022 2115	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-09

Client Sample ID: COOPER 988
Collection Date/Time: 07/08/2022 1118
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	17.1	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 2134	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-10

Client Sample ID: DUP20220708
Collection Date/Time: 07/08/2022 1119
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	17.1	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 2154	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0188
Lab Sample ID: 22G0188-11

Client Sample ID: PALMER
Collection Date/Time: 07/08/2022 1255
Matrix: Ground Water
Order Name: CQB Sampling #CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	15.5	2.81	5.00		mg/L	1	07/19/2022 1041	07/21/2022 2213	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22G0188
 Date Received: 07/08/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2207174 - E300.0 (2.1)										
Blank (2207174-BLK1)				Prepared & Analyzed: 07/19/2022						
Sulfate	ND	5.00	mg/L							
LCS (2207174-BS1)				Prepared & Analyzed: 07/19/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2207174-BSD1)				Prepared & Analyzed: 07/19/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110	0.3	10	
Matrix Spike (2207174-MS1)				Source: 22G0430-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	27	5.00	mg/L	12.50	17	80	80-120			
Matrix Spike (2207174-MS2)				Source: 22G0448-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	14	5.00	mg/L	12.50	4.6	79	80-120			M2
Matrix Spike Dup (2207174-MSD1)				Source: 22G0430-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	27	5.00	mg/L	12.50	17	80	80-120	0.1	10	M2
Matrix Spike Dup (2207174-MSD2)				Source: 22G0448-01		Prepared: 07/19/2022 Analyzed: 07/27/2022				
Sulfate	15	5.00	mg/L	12.50	4.6	80	80-120	0.6	10	



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 # 2260188 DATE 7/8/22 PAGE 2 OF 2

PROJECT NAME CQB Sampling # CC18.1080.00
 CONTACT NAME Ben Daigneau
 COMPANY NAME Clear Creek Associates
 ADDRESS 221 N Court Ave, Ste, 101 Tucson, AZ
 ZIP 85708-1 PHONE 520-322-6222 EMAIL Bdaigneau@cca
 SAMPLER'S SIGNATURE [Signature] geo. logicum

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX																																							
<u>PALMER</u>	<u>7/8/22</u>	<u>1255</u>		<u>GW</u>	<u>1</u>	Base Neutrals 625/8270 <input type="checkbox"/>	Acids <input type="checkbox"/>	Volatile Organics 624 <input type="checkbox"/>	524.2 <input type="checkbox"/>	8260 <input type="checkbox"/>	TTHMS <input type="checkbox"/>	HAMS <input type="checkbox"/>	Chloride <input type="checkbox"/>	Sulfate <input checked="" type="checkbox"/>	Resistivity <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TKN <input type="checkbox"/>	1664 <input type="checkbox"/>	TPH <input type="checkbox"/>	Oil & Grease <input type="checkbox"/>	VOA <input type="checkbox"/>	TCLP Analysis Semivolatile <input type="checkbox"/>	Pest. <input type="checkbox"/>	Metals <input type="checkbox"/>	Total <input type="checkbox"/>	Dissolved <input type="checkbox"/>	RCA8 <input type="checkbox"/>	Total Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SDWA INORGANICS PRIMARY <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Coliform P/A <input type="checkbox"/>	Fecal <input type="checkbox"/>	pH <input type="checkbox"/>	C ₆ <input type="checkbox"/>	C ₁ <input type="checkbox"/>	Turb <input type="checkbox"/>	COD <input type="checkbox"/>	TSS <input type="checkbox"/>	BOD <input type="checkbox"/>			

1. RELINQUISHED BY: <u>[Signature]</u> Signature <u>Caroleen Kilduff</u> Printed Name <u>CCA</u> Firm <u>7/8/22 1542</u> Date/Time	2. RECEIVED BY: <u>[Signature]</u> Signature <u>[Signature]</u> Printed Name <u>[Signature]</u> Firm <u>[Signature]</u> Date/Time	TURNAROUND REQUIREMENTS: <input checked="" type="checkbox"/> Standard (approx. 10 days)* <input type="checkbox"/> Next Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day* <input type="checkbox"/> Email Preliminary Results * Working Days	REPORT REQUIREMENTS: <input checked="" type="checkbox"/> I. Routine Report <input type="checkbox"/> II. Report (includes DUP, MS, MSD, as required, may be charged as samples) <input type="checkbox"/> III. Date Validation Report (Includes All Raw Data) Add 10% to invoice	INVOICE INFORMATION: Account <u>Y</u> <u>N</u> P.O. # _____ Bill to: _____	SAMPLE RECEIPT: Total Containers <u>9</u> Temperature _____ <input type="checkbox"/> Wet Ice <input type="checkbox"/> Ambient <input type="checkbox"/> Blue Ice
--	---	---	---	---	--

3. RELINQUISHED BY: <u>[Signature]</u> Signature <u>[Signature]</u> Printed Name <u>[Signature]</u> Firm <u>[Signature]</u> Date/Time	4. RECEIVED BY: <u>[Signature]</u> Signature <u>[Signature]</u> Printed Name TURNER LABORATORIES, INC. Firm <u>7/8/22 1542</u> Date/Time	* LEGEND SAMPLE MATRIX DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER	Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No SPECIAL INSTRUCTIONS/COMMENTS: <u>* 300.0</u>	Custody Seals <input type="checkbox"/> Container Intact <input checked="" type="checkbox"/> COC / Labels Agree <input checked="" type="checkbox"/>	Preservation Confirmation <input checked="" type="checkbox"/> Appropriate Head Space <input checked="" type="checkbox"/> Received Within Hold Time <input checked="" type="checkbox"/>
---	---	---	--	--	--



August 12, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22G0347
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 7 sample(s) on 07/14/2022 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: 22G0347
Date Received: 07/14/2022

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22G0347-01	Fultz	Ground Water	07/11/2022 1212
22G0347-02	BANKS-986	Ground Water	07/11/2022 1540
22G0347-03	MCCONNEL-459	Ground Water	07/12/2022 1126
22G0347-04	ECHAVE	Ground Water	07/12/2022 1236
22G0347-05	OLMOS	Ground Water	07/12/2022 1542
22G0347-06	HOWARD-312	Ground Water	07/13/2022 1311
22G0347-07	ZANDER	Ground Water	07/14/2022 1012

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Date Received: 07/14/2022

Case Narrative

R2 = The Matrix Spike Duplicate 1 and Matrix Spike Duplicate 2 recovered high and outside of acceptance limits, thus causing the RPDs to be outside of acceptance limits. Batch precision and accuracy were demonstrated.

C4 Confirmatory analysis was past holding time

M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.

R2 RPD/RSD exceeded the laboratory acceptance limit. See 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: 22G0347
Lab Sample ID: 22G0347-01

Client Sample ID: Fultz
Collection Date/Time: 07/11/2022 1212
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	49.8	2.81	5.00	C4	mg/L	1	07/29/2022 1202	08/09/2022 0129	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Lab Sample ID: 22G0347-02

Client Sample ID: BANKS-986
Collection Date/Time: 07/11/2022 1540
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	61.0	2.81	5.00	C4	mg/L	1	07/29/2022 1202	08/09/2022 0149	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Lab Sample ID: 22G0347-03

Client Sample ID: MCCONNEL-459
Collection Date/Time: 07/12/2022 1126
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	28.6	2.81	5.00		mg/L	1	07/29/2022 1202	08/09/2022 0208	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Lab Sample ID: 22G0347-04

Client Sample ID: ECHAVE
Collection Date/Time: 07/12/2022 1236
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	19.5	2.81	5.00	C4	mg/L	1	07/29/2022 1202	08/11/2022 0458	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Lab Sample ID: 22G0347-05

Client Sample ID: OLMOS
Collection Date/Time: 07/12/2022 1542
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	8.32	2.81	5.00		mg/L	1	07/29/2022 1202	07/29/2022 1855	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Lab Sample ID: 22G0347-06

Client Sample ID: HOWARD-312
Collection Date/Time: 07/13/2022 1311
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	65.3	2.81	5.00		mg/L	1	07/29/2022 1202	07/29/2022 1914	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0347
Lab Sample ID: 22G0347-07

Client Sample ID: ZANDER
Collection Date/Time: 07/14/2022 1012
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	7.67	2.81	5.00		mg/L	1	07/29/2022 1202	07/29/2022 1933	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22G0347
 Date Received: 07/14/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2208044 - E300.0 (2.1)										
Blank (2208044-BLK1)				Prepared & Analyzed: 07/29/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208044-BS1)				Prepared & Analyzed: 07/29/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2208044-BSD1)				Prepared & Analyzed: 07/29/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110	0.2	10	
Matrix Spike (2208044-MS1)				Source: 22G0350-01		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	36	5.00	mg/L	12.50	23	103	80-120			
Matrix Spike (2208044-MS2)				Source: 22G0350-05		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	28	5.00	mg/L	12.50	14	119	80-120			
Matrix Spike (2208044-MS3)				Source: 22G0350-07		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	27	5.00	mg/L	12.50	17	86	80-120			
Matrix Spike (2208044-MS4)				Source: 22G0350-08		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	13	5.00	mg/L	12.50	ND	104	80-120			
Matrix Spike Dup (2208044-MSD1)				Source: 22G0350-01		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	33	5.00	mg/L	12.50	23	85	80-120	7	10	
Matrix Spike Dup (2208044-MSD2)				Source: 22G0350-05		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	24	5.00	mg/L	12.50	14	87	80-120	15	10	R2
Matrix Spike Dup (2208044-MSD3)				Source: 22G0350-07		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	27	5.00	mg/L	12.50	17	84	80-120	0.9	10	
Matrix Spike Dup (2208044-MSD4)				Source: 22G0350-08		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	16	5.00	mg/L	12.50	ND	124	80-120	18	10	M1, R2



October 10, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

RE: CQB

Work Order No.: 22G0350
Order Name: CQB Sampling
CC18.1080.00

Dear Chris Sherman,

Turner Laboratories, Inc. received 14 sample(s) on 07/14/2022 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

Kevin Brim
Project Manager

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0350
Date Received: 07/14/2022

Order: CQB Sampling CC18.1080.00

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22G0350-01	ANDERSON 458	Ground Water	07/11/2022 1418
22G0350-02	ROGERS E	Ground Water	07/11/2022 1544
22G0350-03	GARNER 635	Ground Water	07/12/2022 1010
22G0350-04	RUIZ 146	Ground Water	07/12/2022 1122
22G0350-05	PIONKE 517	Ground Water	07/12/2022 1555
22G0350-06	SCHWARTZ	Ground Water	07/13/2022 0945
22G0350-07	WEISKOPF 897	Ground Water	07/13/2022 1420
22G0350-08	FB20220713	Ground Water	07/13/2022 1020
22G0350-09	EQB20220713	Ground Water	07/13/2022 1024
22G0350-10	NWC-06	Ground Water	07/14/2022 0735
22G0350-11	DUP20220714	Ground Water	07/14/2022 0736
22G0350-12	NWC-02	Ground Water	07/14/2022 0816
22G0350-13	NWC-04	Ground Water	07/14/2022 0906
22G0350-14	NESS	Ground Water	07/14/2022 1030

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0350
Date Received: 07/14/2022

Case Narrative

R2 = The Matrix Spike Duplicate 1 and Matrix Spike Duplicate 2 recovered high and outside of acceptance limits, thus causing the RPDs to be outside of acceptance limits. Batch precision and accuracy were demonstrated.

- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
- R2 RPD/RSD exceeded the laboratory acceptance limit. See 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: 10/10/2022

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** ANDERSON 458
Project: CQB **Collection Date/Time:** 07/11/2022 1418
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-01 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	22.6	2.81	5.00		mg/L	1	07/29/2022	120:07/29/2022	195 ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** ROGERS E
Project: CQB **Collection Date/Time:** 07/11/2022 1544
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-02 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.65	2.81	5.00		mg/L	1	07/29/2022 120:	07/29/2022 201	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** GARNER 635
Project: CQB **Collection Date/Time:** 07/12/2022 1010
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-03 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	37.2	2.81	5.00		mg/L	1	07/29/2022 120:	07/29/2022 202	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** RUIZ 146
Project: CQB **Collection Date/Time:** 07/12/2022 1122
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-04 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	94.1	2.81	5.00		mg/L	1	07/29/2022 120:	07/29/2022 204	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** PIONKE 517
Project: CQB **Collection Date/Time:** 07/12/2022 1555
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-05 **Order Name:** CQB Sampling 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	07/29/2022 120:	07/29/2022 210	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** SCHWARTZ
Project: CQB **Collection Date/Time:** 07/13/2022 0945
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-06 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	145	28.1	50.0		mg/L	10	07/29/2022 120:	08/09/2022 022	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** WEISKOPF 897
Project: CQB **Collection Date/Time:** 07/13/2022 1420
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-07 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	16.7	2.81	5.00		mg/L	1	07/29/2022 120:	07/29/2022 230	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** FB20220713
Project: CQB **Collection Date/Time:** 07/13/2022 1020
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-08 **Order Name:** CQB Sampling 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	07/29/2022 120:	07/29/2022 231	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** EQB20220713
Project: CQB **Collection Date/Time:** 07/13/2022 1024
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-09 **Order Name:** CQB Sampling 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	07/29/2022 120:	07/29/2022 233	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** NWC-06
Project: CQB **Collection Date/Time:** 07/14/2022 0735
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-10 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.02	2.81	5.00		mg/L	1	07/29/2022 120:	07/29/2022 235	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** DUP20220714
Project: CQB **Collection Date/Time:** 07/14/2022 0736
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-11 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.06	2.81	5.00		mg/L	1	07/29/2022 120:	07/30/2022 001	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** NWC-02
Project: CQB **Collection Date/Time:** 07/14/2022 0816
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-12 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.04	2.81	5.00		mg/L	1	07/29/2022 120	07/30/2022 003	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** NWC-04
Project: CQB **Collection Date/Time:** 07/14/2022 0906
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-13 **Order Name:** CQB Sampling CC18.1080.00

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	07/29/2022 120	08/09/2022 024	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** NESS
Project: CQB **Collection Date/Time:** 07/14/2022 1030
Work Order: 22G0350 **Matrix:** Ground Water
Lab Sample ID: 22G0350-14 **Order Name:** CQB Sampling CC18.1080.00

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	49.8	2.81	5.00		mg/L	1	07/29/2022 120:	07/30/2022 011	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22G0350
 Date Received: 07/14/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2208044 - E300.0 (2.1)										
Blank (2208044-BLK1)				Prepared & Analyzed: 07/29/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208044-BS1)				Prepared & Analyzed: 07/29/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110			
LCS Dup (2208044-BSD1)				Prepared & Analyzed: 07/29/2022						
Sulfate	13	5.00	mg/L	12.50		102	90-110	0.2	10	
Matrix Spike (2208044-MS1)				Source: 22G0350-01		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	36	5.00	mg/L	12.50	23	103	80-120			
Matrix Spike (2208044-MS2)				Source: 22G0350-05		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	28	5.00	mg/L	12.50	14	119	80-120			
Matrix Spike (2208044-MS3)				Source: 22G0350-07		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	27	5.00	mg/L	12.50	17	86	80-120			
Matrix Spike (2208044-MS4)				Source: 22G0350-08		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	13	5.00	mg/L	12.50	ND	104	80-120			
Matrix Spike Dup (2208044-MSD1)				Source: 22G0350-01		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	33	5.00	mg/L	12.50	23	85	80-120	7	10	
Matrix Spike Dup (2208044-MSD2)				Source: 22G0350-05		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	24	5.00	mg/L	12.50	14	87	80-120	15	10	R2
Matrix Spike Dup (2208044-MSD3)				Source: 22G0350-07		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	27	5.00	mg/L	12.50	17	84	80-120	0.9	10	
Matrix Spike Dup (2208044-MSD4)				Source: 22G0350-08		Prepared: 08/03/2022 Analyzed: 08/11/2022				
Sulfate	16	5.00	mg/L	12.50	ND	124	80-120	18	10	M1, R2



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 # 2260350 DATE 7/14/22 PAGE 2 OF 2

PROJECT NAME <u>COB Sampling</u> # <u>CC18-1080.00</u>					NUMBER OF CONTAINERS	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX																																																						
CONTACT NAME <u>Ben Daigheau</u>						625/8270	Acids <input type="checkbox"/>	8260	HMA5 <input type="checkbox"/>	Sulfate <input type="checkbox"/>	Resistivity <input type="checkbox"/>	TKN <input type="checkbox"/>	1664	Oil & Grease <input type="checkbox"/>	TCLP Analysis <input type="checkbox"/>	Pest. <input type="checkbox"/>	Total <input type="checkbox"/>	RC648 <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																			
COMPANY NAME <u>Clear Creek Associates</u>																										624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	SDWA-INORGANICS <input type="checkbox"/>	PRIMARY <input type="checkbox"/>	MPN <input type="checkbox"/>	Coliform <input type="checkbox"/>	PIA <input type="checkbox"/>	pH <input type="checkbox"/>	Ca <input type="checkbox"/>	Cl <input type="checkbox"/>	TSS <input type="checkbox"/>															
ADDRESS <u>221 N Court Ave, Ste 101</u>																																														TTHMS <input type="checkbox"/>	Sulfide <input type="checkbox"/>	1664	Oil & Grease <input type="checkbox"/>	TCLP Analysis <input type="checkbox"/>	Pest. <input type="checkbox"/>	Total <input type="checkbox"/>	RC648 <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>
ZIP <u>85701</u> PHONE <u>520-622-3222</u> EMAIL <u>Bdaigheau@geo-logic.com</u>																																																												
SAMPLER'S SIGNATURE <u>[Signature]</u>					624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																						
SAMPLE I.D.																							624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																				
DATE					624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																						
TIME																							624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																				
LAB I.D.					624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																						
SAMPLE MATRIX*																							624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																				
SAMPLE I.D.					624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																						
DATE																							624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																				
TIME					624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																						
LAB I.D.																							624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																				
SAMPLE MATRIX*					624	524.2	Chloride <input type="checkbox"/>	NO ₂ <input type="checkbox"/>	NO ₃ <input type="checkbox"/>	TPH <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-VOA <input type="checkbox"/>	Metals <input type="checkbox"/>	Dissolved <input type="checkbox"/>	Total <input type="checkbox"/>	Cyanide <input type="checkbox"/>	Amen. <input type="checkbox"/>	WAD <input type="checkbox"/>	SECONDARY <input type="checkbox"/>	Fecal <input type="checkbox"/>	Turb <input type="checkbox"/>	BOD <input type="checkbox"/>																																						

1. RELINQUISHED BY: Signature: <u>[Signature]</u> Printed Name: <u>Graham Bildeuff</u> Firm: <u>CCA</u> Date/Time: <u>7/14/22 1305</u>		2. RECEIVED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____		TURNAROUND REQUIREMENTS: <input checked="" type="checkbox"/> Standard (approx. 10 days)* <input type="checkbox"/> Next Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 5 Day* <input type="checkbox"/> Email Preliminary Results * Working Days		REPORT REQUIREMENTS: <input checked="" type="checkbox"/> I. Routine Report <input type="checkbox"/> II. Report (includes DUP, MS, MSD, as required, may be charged as samples) <input type="checkbox"/> III. Date Validation Report (Includes All Raw Data) Add 10% to Invoice		INVOICE INFORMATION: Account <u> </u> Y <u> </u> N P.O. # _____ Bill to: _____		SAMPLE RECEIPT: Total Containers <u>14</u> Temperature <u>1.5</u> <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ambient <input type="checkbox"/> Blue Ice	
3. RELINQUISHED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____		4. RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Firm: <u>TURNER LABORATORIES, INC.</u> Date/Time: <u>7/14/22 1305</u>		* LEGEND SAMPLE MATRIX DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER		Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seals <input type="checkbox"/> Container Intact <input type="checkbox"/> COC / Labels Agree <input checked="" type="checkbox"/>		Preservation Confirmation <input type="checkbox"/> Appropriate Head Space <input checked="" type="checkbox"/> Received Within Hold Time <input checked="" type="checkbox"/>	
SPECIAL INSTRUCTIONS/COMMENTS: <u>* 300.0</u>											



October 03, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

RE: CQB

Work Order No.: 22G0473
Order Name: CQB Sampling
#CC18.1080

Dear Chris Sherman,

Turner Laboratories, Inc. received 13 sample(s) on 07/20/2022 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

Kevin Brim
Project Manager

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0473
Date Received: 07/20/2022

Order: CQB Sampling #CC18.1080

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22G0473-01	AWC-05	Ground Water	07/18/2022 0952
22G0473-02	AWC-03	Ground Water	07/18/2022 1037
22G0473-03	AWC-04	Ground Water	07/18/2022 1115
22G0473-04	AWC-02	Ground Water	07/18/2022 1332
22G0473-05	BMO-2010-3B	Ground Water	07/19/2022 0923
22G0473-06	BMO-2010-3M	Ground Water	07/19/2022 1200
22G0473-07	TM-10- USBP	Ground Water	07/19/2022 1323
22G0473-08	BMO-2015-2B	Ground Water	07/20/2022 0811
22G0473-09	BMO-2015-2BL	Ground Water	07/20/2022 0853
22G0473-10	BMO-2015-1B	Ground Water	07/20/2022 1002
22G0473-11	BMO-2015-1BL	Ground Water	07/20/2022 1035
22G0473-12	BMO-2014-4BL	Ground Water	07/20/2022 1220
22G0473-13	BMO-2014-4B	Ground Water	07/20/2022 1300

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0473
Date Received: 07/20/2022

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: 10/03/2022

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** AWC-05
Project: CQB **Collection Date/Time:** 07/18/2022 0952
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-01 **Order Name:** CQB Sampling #CC18.1080

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	08/01/2022	112(08/01/2022	221 ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** AWC-03
Project: CQB **Collection Date/Time:** 07/18/2022 1037
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-02 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	74.3	2.81	5.00		mg/L	1	08/01/2022 1120	08/01/2022 223	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** AWC-04
Project: CQB **Collection Date/Time:** 07/18/2022 1115
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-03 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	27.3	2.81	5.00		mg/L	1	08/01/2022 1120	08/01/2022 225	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** AWC-02
Project: CQB **Collection Date/Time:** 07/18/2022 1332
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-04 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	15.4	2.81	5.00		mg/L	1	08/01/2022 1120	08/01/2022 231	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2010-3B
Project: CQB **Collection Date/Time:** 07/19/2022 0923
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-05 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	20.1	2.81	5.00		mg/L	1	08/01/2022 112	08/01/2022 233	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2010-3M
Project: CQB **Collection Date/Time:** 07/19/2022 1200
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-06 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	9.41	2.81	5.00		mg/L	1	08/01/2022 1121	08/01/2022 235	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** TM-10- USBP
Project: CQB **Collection Date/Time:** 07/19/2022 1323
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-07 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	13.5	2.81	5.00		mg/L	1	08/01/2022 1121	08/02/2022 001	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2015-2B
Project: CQB **Collection Date/Time:** 07/20/2022 0811
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-08 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	274	28.1	50.0		mg/L	10	08/01/2022 1121	08/11/2022 020	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2015-2BL
Project: CQB **Collection Date/Time:** 07/20/2022 0853
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-09 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	311	28.1	50.0		mg/L	10	08/01/2022 112	08/11/2022 022	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2015-1B
Project: CQB **Collection Date/Time:** 07/20/2022 1002
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-10 **Order Name:** CQB Sampling #CC18.1080

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	08/01/2022 1121	08/11/2022 024	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2015-1BL
Project: CQB **Collection Date/Time:** 07/20/2022 1035
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-11 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	255	28.1	50.0		mg/L	10	08/01/2022 1121	08/11/2022 042	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2014-4BL
Project: CQB **Collection Date/Time:** 07/20/2022 1220
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-12 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	132	28.1	50.0		mg/L	10	08/01/2022 1121	08/11/2022 043	ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2014-4B
Project: CQB **Collection Date/Time:** 07/20/2022 1300
Work Order: 22G0473 **Matrix:** Ground Water
Lab Sample ID: 22G0473-13 **Order Name:** CQB Sampling #CC18.1080

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	53.4	2.81	5.00		mg/L	1	08/01/2022 1121	08/02/2022 031	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22G0473
 Date Received: 07/20/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2208045 - E300.0 (2.1)										
Blank (2208045-BLK1)				Prepared & Analyzed: 08/01/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208045-BS1)				Prepared & Analyzed: 08/01/2022						
Sulfate	12	5.00	mg/L	12.50		100	90-110			
LCS Dup (2208045-BSD1)				Prepared & Analyzed: 08/01/2022						
Sulfate	12	5.00	mg/L	12.50		100	90-110	0.05	10	
Matrix Spike (2208045-MS1)				Source: 22G0473-06		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	20	5.00	mg/L	12.50	9.4	83	80-120			
Matrix Spike (2208045-MS2)				Source: 22G0473-07		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	24	5.00	mg/L	12.50	14	80	80-120			
Matrix Spike (2208045-MS4)				Source: 22G0496-04RE1		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	290	50.0	mg/L	125.0	170	96	80-120			
Matrix Spike (2208045-MS5)				Source: 22G0496-05RE1		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	290	50.0	mg/L	125.0	160	99	80-120			
Matrix Spike Dup (2208045-MSD1)				Source: 22G0473-06		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	20	5.00	mg/L	12.50	9.4	84	80-120	0.1	10	
Matrix Spike Dup (2208045-MSD2)				Source: 22G0473-07		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	24	5.00	mg/L	12.50	14	80	80-120	0.02	10	
Matrix Spike Dup (2208045-MSD4)				Source: 22G0496-04RE1		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	290	50.0	mg/L	125.0	170	97	80-120	0.2	10	
Matrix Spike Dup (2208045-MSD5)				Source: 22G0496-05RE1		Prepared: 08/03/2022 Analyzed: 08/12/2022				
Sulfate	290	50.0	mg/L	125.0	160	100	80-120	0.2	10	



August 12, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22G0496
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 7 sample(s) on 07/21/2022 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: 22G0496
Date Received: 07/21/2022

Order: CQB**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22G0496-01	BMO-2014-2BL	Ground Water	07/21/2022 0912
22G0496-02	BMO-2014-2BU	Ground Water	07/21/2022 1000
22G0496-03	BMO-2014-1BL	Ground Water	07/21/2022 1140
22G0496-04	BMO-2014-1BU	Ground Water	07/21/2022 1220
22G0496-05	DUP721	Ground Water	07/21/2022 1220
22G0496-06	EQUIP BLANK	Ground Water	07/21/2022 1510
22G0496-07	FIELD BLANK	Ground Water	07/21/2022 1503

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Date Received: 07/21/2022

Case Narrative

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.

R2 RPD/RSD exceeded the laboratory acceptance limit. See 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: 22G0496
Lab Sample ID: 22G0496-01

Client Sample ID: BMO-2014-2BL
Collection Date/Time: 07/21/2022 0912
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	400	28.1	50.0		mg/L	10	08/01/2022 1120	08/11/2022 0537	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Lab Sample ID: 22G0496-02

Client Sample ID: BMO-2014-2BU
Collection Date/Time: 07/21/2022 1000
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	65.1	2.81	5.00		mg/L	1	08/01/2022 1120	08/02/2022 0415	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Lab Sample ID: 22G0496-03

Client Sample ID: BMO-2014-1BL
Collection Date/Time: 07/21/2022 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	168	28.1	50.0		mg/L	10	08/01/2022 1120	08/11/2022 0556	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Lab Sample ID: 22G0496-04

Client Sample ID: BMO-2014-1BU
Collection Date/Time: 07/21/2022 1220
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	165	28.1	50.0		mg/L	10	08/01/2022 1120	08/11/2022 0616	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Lab Sample ID: 22G0496-05

Client Sample ID: DUP721
Collection Date/Time: 07/21/2022 1220
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	163	28.1	50.0		mg/L	10	08/01/2022 1120	08/11/2022 0635	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Lab Sample ID: 22G0496-06

Client Sample ID: EQUIP BLANK
Collection Date/Time: 07/21/2022 1510
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	ND	2.81	5.00	E8	mg/L	1	08/01/2022 1500	08/01/2022 2252	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22G0496
Lab Sample ID: 22G0496-07

Client Sample ID: FIELD BLANK
Collection Date/Time: 07/21/2022 1503
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	ND	2.81	5.00	E8	mg/L	1	08/01/2022 1500	08/01/2022 2311	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22G0496
 Date Received: 07/21/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2208045 - E300.0 (2.1)										
Blank (2208045-BLK1)				Prepared & Analyzed: 08/01/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208045-BS1)				Prepared & Analyzed: 08/01/2022						
Sulfate	12	5.00	mg/L	12.50		100	90-110			
LCS Dup (2208045-BSD1)				Prepared & Analyzed: 08/01/2022						
Sulfate	12	5.00	mg/L	12.50		100	90-110	0.05	10	
Batch 2208074 - E300.0 (2.1)										
Blank (2208074-BLK1)				Prepared & Analyzed: 08/01/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208074-BS1)				Prepared & Analyzed: 08/01/2022						
Sulfate	12	5.00	mg/L	12.50		99	90-110			
LCS Dup (2208074-BSD1)				Prepared & Analyzed: 08/01/2022						
Sulfate	12	5.00	mg/L	12.50		99	90-110	0.03	10	
Matrix Spike (2208074-MS1)				Source: 22H0070-01		Prepared: 08/04/2022 Analyzed: 08/05/2022				
Sulfate	14	5.00	mg/L	12.50	ND	109	80-120			
Matrix Spike (2208074-MS2)				Source: 22H0070-02		Prepared: 08/04/2022 Analyzed: 08/05/2022				
Sulfate	16	5.00	mg/L	12.50	3.5	101	80-120			
Matrix Spike Dup (2208074-MSD1)				Source: 22H0070-01		Prepared: 08/04/2022 Analyzed: 08/05/2022				
Sulfate	17	5.00	mg/L	12.50	ND	133	80-120	20	10	M1, R2
Matrix Spike Dup (2208074-MSD2)				Source: 22H0070-02		Prepared: 08/04/2022 Analyzed: 08/05/2022				
Sulfate	19	5.00	mg/L	12.50	3.5	126	80-120	18	10	M1, R2



October 03, 2022

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22H0085
Order Name: Copper Queen Branch

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 3 sample(s) on 08/02/2022 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

Kevin Brim
Project Manager

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22H0085
Date Received: 08/02/2022

Order: Copper Queen Branch

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22H0085-01	BMO-2008-4B	Ground Water	08/01/2022 1729
22H0085-02	BMO-2014-3BU	Ground Water	08/01/2022 1200
22H0085-03	BMO-2014-3BL	Ground Water	08/01/2022 1115

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22H0085
Date Received: 08/02/2022

Case Narrative

This report has been revised to correct the sample IDs per client request.

- M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
- M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
- R13 MS/MSD RPD exceeded method acceptance limit. Matrix spike recovery was outside acceptance criteria. Batch precision and accuracy were demonstrated.

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: 10/03/2022

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2008-4B
Project: CQB **Collection Date/Time:** 08/01/2022 1729
Work Order: 22H0085 **Matrix:** Ground Water
Lab Sample ID: 22H0085-01 **Order Name:** Copper Queen Branch

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	16.8	2.81	5.00		mg/L	1	08/04/2022	103:08/04/2022	234 ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2014-3BU
Project: CQB **Collection Date/Time:** 08/01/2022 1200
Work Order: 22H0085 **Matrix:** Ground Water
Lab Sample ID: 22H0085-02 **Order Name:** Copper Queen Branch

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.16	2.81	5.00		mg/L	1	08/04/2022	103:08/05/2022	000 ACG

Client: Freeport McMoran - Copper Queen Branch **Client Sample ID:** BMO-2014-3BL
Project: CQB **Collection Date/Time:** 08/01/2022 1115
Work Order: 22H0085 **Matrix:** Ground Water
Lab Sample ID: 22H0085-03 **Order Name:** Copper Queen Branch

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	8.77	2.81	5.00		mg/L	1	08/04/2022	103:08/05/2022	002 ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22H0085
 Date Received: 08/02/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2208141 - E300.0 (2.1)										
Blank (2208141-BLK1)				Prepared & Analyzed: 08/04/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208141-BS1)				Prepared & Analyzed: 08/04/2022						
Sulfate	13	5.00	mg/L	12.50		104	90-110			
LCS Dup (2208141-BSD1)				Prepared & Analyzed: 08/04/2022						
Sulfate	13	5.00	mg/L	12.50		105	90-110	0.4	10	
Matrix Spike (2208141-MS1)				Source: 22H0082-01		Prepared: 08/04/2022 Analyzed: 08/11/2022				
Sulfate	8900	2500	mg/L	6250	3200	91	80-120			
Matrix Spike (2208141-MS2)				Source: 22H0082-02		Prepared: 08/04/2022 Analyzed: 08/11/2022				
Sulfate	190	50.0	mg/L	125.0	70	97	80-120			
Matrix Spike (2208141-MS3)				Source: 22H0216-01		Prepared: 08/04/2022 Analyzed: 08/18/2022				
Sulfate	27	5.00	mg/L	12.50	17	78	80-120			M2
Matrix Spike (2208141-MS4)				Source: 22H0216-02		Prepared: 08/04/2022 Analyzed: 08/18/2022				
Sulfate	25	5.00	mg/L	12.50	15	77	80-120			M2
Matrix Spike Dup (2208141-MSD1)				Source: 22H0082-01		Prepared: 08/04/2022 Analyzed: 08/11/2022				
Sulfate	11000	2500	mg/L	6250	3200	123	80-120	20	10	M1, R13
Matrix Spike Dup (2208141-MSD2)				Source: 22H0082-02		Prepared: 08/04/2022 Analyzed: 08/11/2022				
Sulfate	180	50.0	mg/L	125.0	70	89	80-120	5	10	
Matrix Spike Dup (2208141-MSD3)				Source: 22H0216-01		Prepared: 08/04/2022 Analyzed: 08/18/2022				
Sulfate	27	5.00	mg/L	12.50	17	78	80-120	0.04	10	M2
Matrix Spike Dup (2208141-MSD4)				Source: 22H0216-02		Prepared: 08/04/2022 Analyzed: 08/18/2022				
Sulfate	25	5.00	mg/L	12.50	15	77	80-120	0.09	10	M2



January 16, 2023

Chris Sherman
Freeport McMoran - Copper Queen Branch
36 W Highway 92
Bisbee, AZ 85603-1047

TEL (520) 432-6206
FAX

Work Order No.: 22H0192
Order Name: CQB

RE: CQB

Dear Chris Sherman,

Turner Laboratories, Inc. received 4 sample(s) on 08/04/2022 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: 22H0192
Date Received: 08/04/2022

Order: CQB

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22H0192-01	COB-MW-3	Ground Water	08/03/2022 0905
22H0192-02	COB-MW-2	Ground Water	08/03/2022 0948
22H0192-03	COB-MW-1B	Ground Water	08/03/2022 1200
22H0192-04	COB-WL	Ground Water	08/03/2022 1350

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22H0192
Date Received: 08/04/2022

Case Narrative

This report has been revised to correct the source sample for 2208136 Matrix Spike / Matrix Spike Duplicate.

H2 Initial analysis was performed within holding time. Reanalysis for the required dilution was past holding time.

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: 22H0192
Lab Sample ID: 22H0192-01

Client Sample ID: COB-MW-3
Collection Date/Time: 08/03/2022 0905
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	91.3	2.81	5.00		mg/L	1	08/04/2022 1007	08/04/2022 2124	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22H0192
Lab Sample ID: 22H0192-02

Client Sample ID: COB-MW-2
Collection Date/Time: 08/03/2022 0948
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	23.5	2.81	5.00		mg/L	1	08/04/2022 1007	08/04/2022 2143	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22H0192
Lab Sample ID: 22H0192-03

Client Sample ID: COB-MW-1B
Collection Date/Time: 08/03/2022 1200
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	804	56.1	100	H2	mg/L	20	08/04/2022 1007	09/01/2022 0250	ACG

Client: Freeport McMoran - Copper Queen Branch
Project: CQB
Work Order: 22H0192
Lab Sample ID: 22H0192-04

Client Sample ID: COB-WL
Collection Date/Time: 08/03/2022 1350
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	72.8	2.81	5.00		mg/L	1	08/04/2022 1007	08/04/2022 2222	ACG

Client: Freeport McMoran - Copper Queen Branch
 Project: CQB
 Work Order: 22H0192
 Date Received: 08/04/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2208136 - E300.0 (2.1)										
Blank (2208136-BLK1)				Prepared & Analyzed: 08/04/2022						
Sulfate	ND	5.00	mg/L							
LCS (2208136-BS1)				Prepared & Analyzed: 08/04/2022						
Sulfate	13	5.00	mg/L	12.50		101	90-110			
LCS Dup (2208136-BSD1)				Prepared & Analyzed: 08/04/2022						
Sulfate	13	5.00	mg/L	12.50		101	90-110	0.3	10	
Matrix Spike (2208136-MS1)				Source: 22H0226-01		Prepared: 08/04/2022 Analyzed: 09/10/2022				
Sulfate	26	5.00	mg/L	12.50	15	84	80-120			
Matrix Spike (2208136-MS2)				Source: 22H0195-01RE2		Prepared: 08/04/2022 Analyzed: 09/10/2022				
Sulfate	27	5.00	mg/L	12.50	17	81	80-120			
Matrix Spike Dup (2208136-MSD1)				Source: 22H0226-01		Prepared: 08/04/2022 Analyzed: 09/10/2022				
Sulfate	26	5.00	mg/L	12.50	15	84	80-120	0.1	10	
Matrix Spike Dup (2208136-MSD2)				Source: 22H0195-01RE2		Prepared: 08/04/2022 Analyzed: 09/10/2022				
Sulfate	27	5.00	mg/L	12.50	17	80	80-120	0.5	10	



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BM0 2008-6M	X2G0379-01	Ground Water	11-Jul-22 07:45	CLS	21-Jul-2022	
BM0 2008-6B	X2G0379-02	Ground Water	11-Jul-22 09:15	CLS	21-Jul-2022	
BM0 2008-5M	X2G0379-03	Ground Water	11-Jul-22 10:40	CLS	21-Jul-2022	
BM0 2008-5B	X2G0379-04	Ground Water	11-Jul-22 11:25	CLS	21-Jul-2022	
BMO-2008-7M	X2G0379-05	Ground Water	18-Jul-22 06:35	CIS	21-Jul-2022	
BMO-2008-8M	X2G0379-06	Ground Water	18-Jul-22 09:40	CIS	21-Jul-2022	
BMO-2008-9M	X2G0379-07	Ground Water	18-Jul-22 11:50	CLS	21-Jul-2022	
BM0 2008-1G	X2G0379-08	Ground Water	14-Jul-22 07:00	CLS	21-Jul-2022	
BM0 2012-1M	X2G0379-09	Ground Water	19-Jul-22 07:30	CLS	21-Jul-2022	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. 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.



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: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BM0 2008-6M**

Sampled: 11-Jul-22 07:45

SVL Sample ID: **X2G0379-01 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	207	mg/L	3.00	1.80	10	X232051	RS	08/02/22 14:08	D2,M4
-----------	----------------	-----	------	------	------	----	---------	----	----------------	-------

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BM0 2008-6B**

Sampled: 11-Jul-22 09:15

SVL Sample ID: **X2G0379-02 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	10.2	mg/L	3.00	1.80	10	X232051	RS	08/02/22 15:00	D1
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BM0 2008-5M**

Sampled: 11-Jul-22 10:40

SVL Sample ID: **X2G0379-03 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	178	mg/L	3.00	1.80	10	X232051	RS	08/02/22 15:35	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BM0 2008-5B**

Sampled: 11-Jul-22 11:25

SVL Sample ID: **X2G0379-04 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	288	mg/L	3.00	1.80	10	X232051	RS	08/02/22 15:53	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BMO-2008-7M**

Sampled: 18-Jul-22 06:35

SVL Sample ID: **X2G0379-05 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CIS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	40.0	mg/L	3.00	1.80	10	X232051	RS	08/02/22 16:10	D1
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BMO-2008-8M**

Sampled: 18-Jul-22 09:40

SVL Sample ID: **X2G0379-06 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CIS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	1050	mg/L	15.0	9.00	50	X232051	RS	08/02/22 17:03	D2
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BMO-2008-9M**

Sampled: 18-Jul-22 11:50

SVL Sample ID: **X2G0379-07 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	108	mg/L	3.00	1.80	10	X232051	RS	08/02/22 17:21	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BM0 2008-1G**

Sampled: 14-Jul-22 07:00

SVL Sample ID: **X2G0379-08 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	96.5	mg/L	3.00	1.80	10	X232051	RS	08/02/22 17:38	D2
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Client Sample ID: **BM0 2012-1M**

Sampled: 19-Jul-22 07:30

SVL Sample ID: **X2G0379-09 (Ground Water)**

Received: 21-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	235	mg/L	3.00	1.80	10	X232051	RS	08/02/22 17:56	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dave Tryon
Project Manager



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**
Reported: 08-Aug-22 23:19

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
--------	---------	-------	--------	-----	-----	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X232051	02-Aug-22	
-----------	----------------	------	-------	------	------	---------	-----------	--

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
--------	---------	-------	------------	----------	--------	-------------------	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X232051	02-Aug-22	
-----------	----------------	------	------	------	-----	----------	---------	-----------	--

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
--------	---------	-------	--------------	-------------------	-----------------	--------	-------------------	---------------------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	215	207	10.0	0.30R>S	90 - 110	X232051 - X2G0379-01	02-Aug-22	D2,M4
EPA 300.0	Sulfate as SO4	mg/L	20.3	10.2	10.0	101	90 - 110	X232051 - X2G0379-02	02-Aug-22	D1

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
--------	---------	-------	------------	--------------	-------------	-----	-----------	------------	---------------------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	217	215	10.0	1.0	20	98.2	X232051 - X2G0379-01	D2
-----------	----------------	------	-----	-----	------	-----	----	------	----------------------	----



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0379**

Reported: 08-Aug-22 23:19

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
TM-15	X2G0508-01	Ground Water	25-Jul-22 06:55	CLS	29-Jul-2022	
Cooper C	X2G0508-02	Ground Water	25-Jul-22 08:35	CLS	29-Jul-2022	
Hoban	X2G0508-03	Ground Water	25-Jul-22 09:30	CLS	29-Jul-2022	
Dup-072522	X2G0508-04	Ground Water	25-Jul-22 09:30	CLS	29-Jul-2022	
TM-19A	X2G0508-05	Ground Water	25-Jul-22 10:30	CLS	29-Jul-2022	
BM0-2010-1M	X2G0508-06	Ground Water	26-Jul-22 10:20	CLS	29-Jul-2022	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. 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.



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: **X2G0508**

Reported: 18-Aug-22 15:56

Client Sample ID: **TM-15**

Sampled: 25-Jul-22 06:55

SVL Sample ID: **X2G0508-01 (Ground Water)**

Received: 29-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	16.1	mg/L	3.00	1.80	10	X232051	RS	08/02/22 18:13	D1
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

Client Sample ID: **Cooper C**

Sampled: 25-Jul-22 08:35

SVL Sample ID: **X2G0508-02 (Ground Water)**

Received: 29-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	674	mg/L	7.50	4.50	25	X232051	RS	08/02/22 18:31	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

Client Sample ID: **Hoban**

Sampled: 25-Jul-22 09:30

SVL Sample ID: **X2G0508-03 (Ground Water)**

Received: 29-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	309	mg/L	3.00	1.80	10	X232051	RS	08/02/22 18:48	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

Client Sample ID: **Dup-072522**

Sampled: 25-Jul-22 09:30

SVL Sample ID: **X2G0508-04 (Ground Water)**

Received: 29-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	310	mg/L	3.00	1.80	10	X232051	RS	08/02/22 19:06	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

Client Sample ID: **TM-19A**

Sampled: 25-Jul-22 10:30

SVL Sample ID: **X2G0508-05 (Ground Water)**

Received: 29-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	63.3	mg/L	3.00	1.80	10	X232051	RS	08/02/22 19:23	D2
-----------	----------------	------	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

Client Sample ID: **BM0-2010-1M**

Sampled: 26-Jul-22 10:20

SVL Sample ID: **X2G0508-06 (Ground Water)**

Received: 29-Jul-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	200	mg/L	3.00	1.80	10	X232051	RS	08/02/22 19:41	D2
-----------	----------------	-----	------	------	------	----	---------	----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Freeport McMoRan - Bisbee
 36 West Hwy 92
 Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**
 Reported: 18-Aug-22 15:56

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
--------	---------	-------	--------	-----	-----	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X232051	02-Aug-22	
-----------	----------------	------	-------	------	------	---------	-----------	--

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
--------	---------	-------	------------	----------	--------	-------------------	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X232051	02-Aug-22	
-----------	----------------	------	------	------	-----	----------	---------	-----------	--

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
--------	---------	-------	--------------	-------------------	-----------------	--------	-------------------	---------------------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	215	207	10.0	0.30R>S	90 - 110	X232051 - X2G0379-01	02-Aug-22	D2,M4
EPA 300.0	Sulfate as SO4	mg/L	20.3	10.2	10.0	101	90 - 110	X232051 - X2G0379-02	02-Aug-22	D1

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
--------	---------	-------	------------	--------------	-------------	-----	-----------	------------	---------------------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	217	215	10.0	1.0	20	98.2	X232051 - X2G0379-01	D2
-----------	----------------	------	-----	-----	------	-----	----	------	----------------------	----



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2G0508**

Reported: 18-Aug-22 15:56

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**

Reported: 19-Aug-22 14:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
BMO-2008-11G	X2H0093-01	Ground Water	01-Aug-22 07:00	CLS	04-Aug-2022	
BMO-2008-3B	X2H0093-02	Ground Water	01-Aug-22 08:30	CLS	04-Aug-2022	
TM-7	X2H0093-03	Ground Water	01-Aug-22 09:38	CLS	04-Aug-2022	
EQB-080122	X2H0093-04	Other	01-Aug-22 09:30	CLS	04-Aug-2022	
FB-080122	X2H0093-05	Other	01-Aug-22 06:50	CLS	04-Aug-2022	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. 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.



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: **X2H0093**

Reported: 19-Aug-22 14:10

Client Sample ID: **BMO-2008-11G**

Sampled: 01-Aug-22 07:00

SVL Sample ID: **X2H0093-01 (Ground Water)**

Received: 04-Aug-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	12.7	mg/L	0.30	0.18		X233094	EBR	08/11/22 16:43	
-----------	----------------	------	------	------	------	--	---------	-----	----------------	--

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**

Reported: 19-Aug-22 14:10

Client Sample ID: **BMO-2008-3B**

Sampled: 01-Aug-22 08:30

SVL Sample ID: **X2H0093-02 (Ground Water)**

Received: 04-Aug-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	181	mg/L	3.00	1.80	10	X233094	EBR	08/12/22 15:20	D2
-----------	----------------	-----	------	------	------	----	---------	-----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**

Reported: 19-Aug-22 14:10

Client Sample ID: **TM-7**

Sampled: 01-Aug-22 09:38

SVL Sample ID: **X2H0093-03 (Ground Water)**

Received: 04-Aug-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	114	mg/L	3.00	1.80	10	X233094	EBR	08/12/22 15:38	D2
-----------	----------------	-----	------	------	------	----	---------	-----	----------------	----

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**

Reported: 19-Aug-22 14:10

Client Sample ID: **EQB-080122**

Sampled: 01-Aug-22 09:30

SVL Sample ID: **X2H0093-04 (Other)**

Received: 04-Aug-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X233094	EBR	08/12/22 15:56	
-----------	----------------	--------	------	------	------	--	---------	-----	----------------	--

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
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: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**

Reported: 19-Aug-22 14:10

Client Sample ID: **FB-080122**

Sampled: 01-Aug-22 06:50

SVL Sample ID: **X2H0093-05 (Other)**

Received: 04-Aug-22

Sample Report Page 1 of 1

Sampled By: CLS

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
--------	---------	--------	-------	----	-----	----------	-------	---------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	0.33	mg/L	0.30	0.18		X233094	EBR	08/12/22 16:14	
-----------	----------------	------	------	------	------	--	---------	-----	----------------	--

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**
Reported: 19-Aug-22 14:10

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
--------	---------	-------	--------	-----	-----	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X233094	11-Aug-22	
-----------	----------------	------	-------	------	------	---------	-----------	--

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
--------	---------	-------	------------	----------	--------	-------------------	----------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X233094	12-Aug-22	
-----------	----------------	------	------	------	-----	----------	---------	-----------	--

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
--------	---------	-------	--------------	-------------------	-----------------	--------	-------------------	---------------------	----------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	22.9	12.7	10.0	103	90 - 110	X233094 - X2H0093-01	11-Aug-22	
-----------	----------------	------	------	------	------	-----	----------	----------------------	-----------	--

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
--------	---------	-------	------------	--------------	-------------	-----	-----------	------------	---------------------	-------

Filtered Anions by Ion Chromatography

EPA 300.0	Sulfate as SO4	mg/L	22.7	22.9	10.0	0.9	20	101	X233094 - X2H0093-01	
-----------	----------------	------	------	------	------	-----	----	-----	----------------------	--



Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: **X2H0093**

Reported: 19-Aug-22 14:10

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



January 15, 2023

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.: 22L0655
Order Name: CQB Sampling

RE: CQB Quarterly Monitoring

Dear Ben Daigneau,

Turner Laboratories, Inc. received 1 sample(s) on 12/30/2022 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: 22L0655
Date Received: 12/30/2022

Order: CQB Sampling

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
22L0655-01	NWC-04	Ground Water	12/30/2022 0935

Client: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 22L0655
Date Received: 12/30/2022

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: Clear Creek Associates
Project: CQB Quarterly Monitoring
Work Order: 22L0655
Lab Sample ID: 22L0655-01

Client Sample ID: NWC-04
Collection Date/Time: 12/30/2022 0935
Matrix: Ground Water
Order Name: CQB Sampling

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Anions by Ion Chromatography-E300.0 (2.1)									
Sulfate	181	28.1	50.0	M2	mg/L	10	12/30/2022 1000	01/05/2023 1426	ACG

Client: Clear Creek Associates
 Project: CQB Quarterly Monitoring
 Work Order: 22L0655
 Date Received: 12/30/2022

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 2212267 - E300.0 (2.1)										
Blank (2212267-BLK1)				Prepared & Analyzed: 12/30/2022						
Sulfate	ND	5.00	mg/L							
LCS (2212267-BS1)				Prepared & Analyzed: 12/30/2022						
Sulfate	12	5.00	mg/L	12.50		98	90-110			
LCS Dup (2212267-BSD1)				Prepared & Analyzed: 12/30/2022						
Sulfate	12	5.00	mg/L	12.50		98	90-110	0.07	10	
Matrix Spike (2212267-MS1)				Source: 22L0655-01		Prepared: 12/30/2022 Analyzed: 01/04/2023				
Sulfate	290	50.0	mg/L	125.0	210	67	80-120			M2
Matrix Spike Dup (2212267-MSD1)				Source: 22L0655-01		Prepared: 12/30/2022 Analyzed: 01/04/2023				
Sulfate	290	50.0	mg/L	125.0	210	65	80-120	0.8	10	M2

APPENDIX C

DATA VERIFICATION REPORT

APPENDIX C
DATA VERIFICATION REPORT
ANNUAL GROUNDWATER MONITORING REPORT
FOR 2022

Prepared for:

FREEPORT MINERALS CORPORATION
COPPER QUEEN BRANCH
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:

CLEAR CREEK ASSOCIATES, L.L.C.
221 North Court Avenue, Suite 101
Tucson, Arizona 85701

March 6, 2023

TABLE OF CONTENTS

1.	INTRODUCTION	1
2.	OPERATIONS.....	3
2.1	Water Level Monitoring	3
2.2	Groundwater Sampling	4
2.2.1	Pre-Sampling Field Activities	4
2.2.2	Well Purging, Field Measurements, and Sample Collection	4
2.2.3	Post-Sampling Field Activities.....	5
3.	SAMPLE HANDLING.....	6
4.	LABORATORY QUALITY CONTROL.....	7
4.1	Licensure.....	7
4.2	Analytical Method	7
4.3	Method Detection Limit, Reporting Limit, and Practical Quantitation Limit	7
4.4	Timeliness	8
4.5	Quality Control Measurements	8
4.5.1	Calibration Blanks and Calibration Verification Standards.....	8
4.5.2	Analytical Spike	9
4.5.3	Laboratory Duplicate Samples	9
4.5.4	Sample Re-Analysis	9
4.5.5	Blank Samples.....	10
5.	DATA QUALITY INDICATORS	11
5.1	Precision.....	11
5.2	Bias	12
5.3	Accuracy	12
5.4	Representativeness	13
5.5	Comparability	13
5.6	Completeness	13
5.7	Sensitivity	13
5.8	Reliability.....	14
6.	REFERENCES	15

1. INTRODUCTION

This report summarizes the data verification review of field measurements, groundwater sampling, and laboratory analyses conducted during 2022 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 annual performance review (Clear Creek Associates, 2019). Analytical results for groundwater samples collected for this project during 2022 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 2022 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 139 samples collected by Clear Creek Associates and CQB in 2022 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: 43 Number of well samples collected (including duplicates and multiple samples from one well): 46 Number of duplicate samples collected: 3 Number of field and equipment blanks collected: 4 Total number of samples collected: 50	
22A0671	BMO-2010-3B, BMO-2010-3M, TM-10 USBP, BMO-2015-2B, BMO-2015-2BL, BMO-2015-1B, BMO-2015-1BL, BMO-2014-4BL, BMO-2014-4B, KEEFER, DUP20220125, BMO-2014-2BL, BMO-2014-2BU, BMO-2014-1BU, BMO-2014-1BL, BMO-2014-3BL, BMO-2014-3BU, COOPER 988, FB20220125, EQB20220125
22A0674	DODSON
22B0032	AWC-05, AWC-03, AWC-04, AWC-02, FB20220131, EQB20220131, DUP20220131, NWC-06, NWC-04, NWC-02, WEED
22B0092	PANAGAKOS, POWER 639, SCHWARTZ, ROGERS E, RUIZ 146, ROGERS 596
22B0299	EPPELE 641, COB MW-2
X2B0070	BMO-2008-1G, BMO-2008-3B, BMO-2008-6M, BMO-2008-6B, BMO-2008-5M, BMO-2008-5B, BMO-2012-1M, BMO-2008-11G, DUP-020122, TM-7
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: 0 Number of field and equipment blanks collected: 0 Total number of samples collected: 1	
22E0094	NWC-04
LAB ID	Q3 WELLS REPORTED
Number of wells sampled: 74 Number of well samples collected (including duplicates and multiple samples from one well): 79 Number of duplicate samples collected: 5 Number of field and equipment blanks collected: 8 Total number of samples collected: 87	
22G0187	RAY, EAST, KEEFER, DUPJ0, MOORE, RAMIREZ, THOMPSON 341, ROGERS 596
22G0188	DODSON, WEED, PANAGAKOS, FRANCO 383, BURKE, POWER 639, EQB20220707, FB20220707, COOPER 988, DUP20220708, PALMER
22G0347	FULTZ, BANKS 986, MCCONNELL 459, ECHAVE, OLMOS, HOWARD 312, ZANDER
22G0350	ANDERSON 458, ROGERS E, GARNER 635, RUIZ 146, PIONKE 517, SCHWARTZ, WEISKOPF 897, FB20220713, EQB20220713, NWC-06, DUP20220714, NWC-02, NWC-04, NESS
22G0473	AWC-05, AWC-03, AWC-04, AWC-02, BMO-2010-3B, BMO-2010-3M, TM-10 USBP, BMO-2015-2B, BMO-2015-2BL, BMO-2015-1B, BMO-2015-1BL, BMO-2014-4BL, BMO-2014-4B
22G0496	BMO-2014-2BL, BMO-2014-2BU, BMO-2014-1BL, BMO-2014-1BU, DUP721, EQUIP BLANK, FIELD BLANK
22H0085	BMO-2008-4B, BMO-2014-3BU, BMO-2014-3BL
22H0192	COB MW-3, COB MW-2, COB MW-1B, COB WL
X2G0379	BMO-2008-6M, BMO-2008-6B, BMO-2008-5M, BMO-2008-5B, BMO-2008-7M, BMO-2008-8M, BMO-2008-9M, BMO-2008-1G, BMO-2012-1M
X2G0508	TM-15, COOPER C, HOBAN, TM-19A, DUP-072522, BMO-2010-1M
X2H0093	BMO-2008-11G, BMO-2008-3B, TM-7, FB-080122, EQB-080122
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	
22L0655	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 [$\mu\text{S}/\text{cm}$], and temperature in degrees Celsius [$^{\circ}\text{C}$]),
- 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 except for COB MW-2 and COB MW-3 in the third quarter 2022, which were measured to the nearest foot with the well owner's equipment. 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). All wells sampled contained dedicated submersible pumps. Location information for the wells sampled for water quality and water level measurements is listed in Table 4 of the main text.

2.2.1 Pre-Sampling Field Activities

The pH¹ and SC² 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.

¹ Field pH meters were calibrated using a three point calibration.

² Field SC meters were calibrated using standard stock solutions.

In 2022, 127 groundwater samples (duplicate and multiple samples included) were collected for analysis from 75 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 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 2022 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 turn-around-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 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 5.0. 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

Most samples submitted for sulfate analysis were run within the 28-day holding time specified by EPA Method 300.0. The initial analysis for the COB-MW-1B sample collected in August was within the holding time, however; the reanalysis with the required dilution was analyzed outside of the hold time. Turner reanalyzed samples 22G0347-1, 22G0347-2, 22G0347-3, and 22G0347-4 as part of an internal quality assurance process. The initial analysis for each sample was within hold time but the reanalysis was conducted outside of the 28-day hold time and flagged “C4” in the laboratory report.

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 “M2” and “M3”, flags were not used in an SVL report in 2022. The “M1” flag was used in report X2B0070 and the “M4” flag was used in reports X2G0379 and X2G0508. In each case where a qualifier was used, the laboratory control sample recovery was checked by SVL 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.

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 2022. The M1 flag was used in reports 22G0347, 22G0350, 22G0496, and 22H0085. The “M2” flag was used in Turner reports 22A0671, 22G0188, and 22H00885. 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 2022, no samples were re-analyzed by Turner at the request of Clear Creek Associates based on comparison with historical results and no samples were re-analyzed by SVL.

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 2022, 12 blank samples were collected, including six field blanks (FB20220125, FB20220131, FB20220707, FB20220713, FIELD BLANK, and FB-080122) and six field equipment blanks (EQB20220125, EQB20220131, EQB20220707, EQB20220713, EQUIP BLANK, and EQB-080122). The collection of six field blanks and six equipment blanks in 2022 meets the requirement for the collection of one of each type of blank for every 20 original groundwater samples collected which does not include duplicate or blank samples.

One blank sample, FB-080122, collected in August 2022, had a sulfate concentration of 0.33 mg/L, which is above the SVL RL of 0.30 mg/L. The blank with the detected concentration of sulfate was reported on laboratory report X2H0093 with three other well samples (BMO-2008-11G, BMO-2008-3B, and TM-7) and one equipment blank (EQB-080122). The well samples were within historic ranges and no sulfate was detected above the MDL for the equipment blank. The detection of sulfate in the blank sample did not affect the usability of laboratory data in 2022 because of the low level of detection relative to target MDL. No other field or equipment blanks had detections of sulfate above RLs or PQLs so other samples were not affected by the detection in FB-080122.

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 2022.

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. During this monitoring period, eight field-filtered duplicate samples (DUP20220125, DUP20220131, DUP-020122, DUPIO, DUP20220708, DUP20220714, DUP721, and DUP-072522) were collected for analysis. The collection of eight 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 2.60 percent, all within the 20 percent acceptance

criteria for field duplicates, as stated in Section 3.3.1 of the QAPP. Overall, the DQI for precision is met for the analytical data.

Turner/SVL Project No.	Well ID	Duplicate ID	Sample (mg/l)	Duplicate (mg/l)	RPD
<u>22B0032</u>	AWC-02	DUP20220131	16.0	16.0	0.00%
<u>X2B0070</u>	BMO-2008-11G	DUP-020122	13.2	13.3	0.75%
<u>22A0671</u>	BMO-2015-2B	DUP20220125	266	273	2.60%
<u>22G0187</u>	KEEFER	DUPJO	7.41	7.42	0.13%
<u>22G0188</u>	COOPER 988	DUP20220708	17.1	17.1	0.00%
<u>22G0350</u>	NWC-06	DUP20220714	9.02	9.06	0.44%
<u>22G0496</u>	BMO-2014-1BU	DUP721	165	163	1.22%
<u>X2G0508</u>	HOBAN	DUP-072522	309	310	0.32%

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, one field blanks had a sulfate detection above the target MDL; however, the value was low relative to the MDL and no other blanks had sulfate detections, which indicates that the sampling collection and analysis procedures did not significantly 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, one field blank had a sulfate detection above the target MDL; however, the value was low relative to the MDL and no other blanks had sulfate detections, which indicates 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. In addition, results are expected to be representative of groundwater quality at the sampled locations because sulfate was not detected in most field or and all equipment blanks above the target MDL. The field blanks with a sulfate detection did not affect the representativeness of any samples collected in the third quarter 2022 as discussed in Sections 4.5.5.

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 2022.

6. 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.
- 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 D

WELL RECORDS REGISTRY REVIEW

APPENDIX D
WELL RECORDS REGISTRY REVIEW
ANNUAL GROUNDWATER MONITORING REPORT
FOR 2022

Prepared for:

FREEMPORT MINERALS CORPORATION,
COPPER QUEEN BRANCH
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:

CLEAR CREEK ASSOCIATES, L.L.C.
221 North Court Avenue Suite 101
Tucson, Arizona 85701

March 6, 2023

TABLE OF CONTENTS

1.	INTRODUCTION	1
1.1	Scope and Objectives	1
1.2	Monitoring of Drinking Water Supplies	2
2.	METHODOLOGY	3
2.1	Identification of Wells Within One Mile of the Plume.....	3
3.	RESULTS	4
3.1	New Records Identified	4
4.	REFERENCES	5

TABLE

D.1. Well Records Review Summary

FIGURES

D.1. Project Location Map

D.2. Well Search Area and New Well Registration

APPENDIX

D.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 2022 within one mile of the groundwater sulfate plume near the Freeport Minerals Corporation, Copper Queen Branch (CQB) Concentrator Tailing Storage Area (CTSA) (Figure D.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 2021 (Clear Creek Associates, 2016, 2017, 2018, 2019, 2020, 2021 and 2022). The last well records review (Clear Creek Associates, 2022) used WRD information available as of January 2022.

The well records review reported herein discusses only new WRD records added to the WRD between January 2022 and January 2023. The WRD was downloaded from the ADWR website¹ on January 10, 2023 as a shapefile for use with ESRI ArcMap software. The website indicated that the shapefile was last updated on January 9, 2023.

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.

¹ https://gisdata2016-11-18t150447874z-azwater.opendata.arcgis.com/datasets/34c92af536ec4047aeaf9d93053dc317_0/explore?location=34.119473%2C-111.970052%2C7.81

2. METHODOLOGY

2.1 Identification of Wells Within One Mile of the Plume

Figures D.1 and D.2 show the sulfate plume based on groundwater monitoring data for the third quarter of 2022. The January 2023 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 D.2 shows the outline of the search area 1.1 miles from the sulfate plume. The list of wells within the January 2023 search area was compared to the list of wells reported in the Well Records Review for 2022 to identify new records. Table D.1 lists the new record added to the WRD between January 2022 and January 2023. The location of the new well record is shown on Figure D.2.

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 and Figure D.2). The well registry number for the new record is 55-236750. The ADWR imaged records for the well record is attached as Appendix D.1.

The new well record is a Notice of Intent to install a well for a domestic water production well submitted to ADWR on April 4, 2022. The new well was installed in October 2022 and is being used as a domestic supply well according to the owner, Linda Lair. The well will be sampled in the first quarter 2023 and then sampled annually pursuant to the Mitigation Plan. The well will be included in the annual reports as LAIR and added to the updated sampling schedule in the next Mitigation Performance Review scheduled for submittal in 2024.

4. REFERENCES

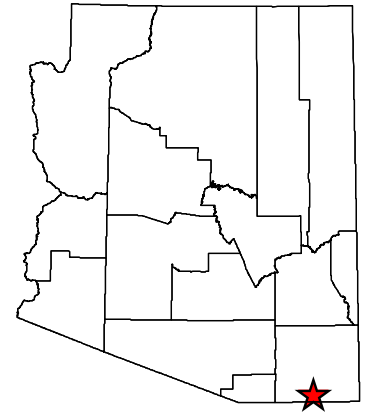
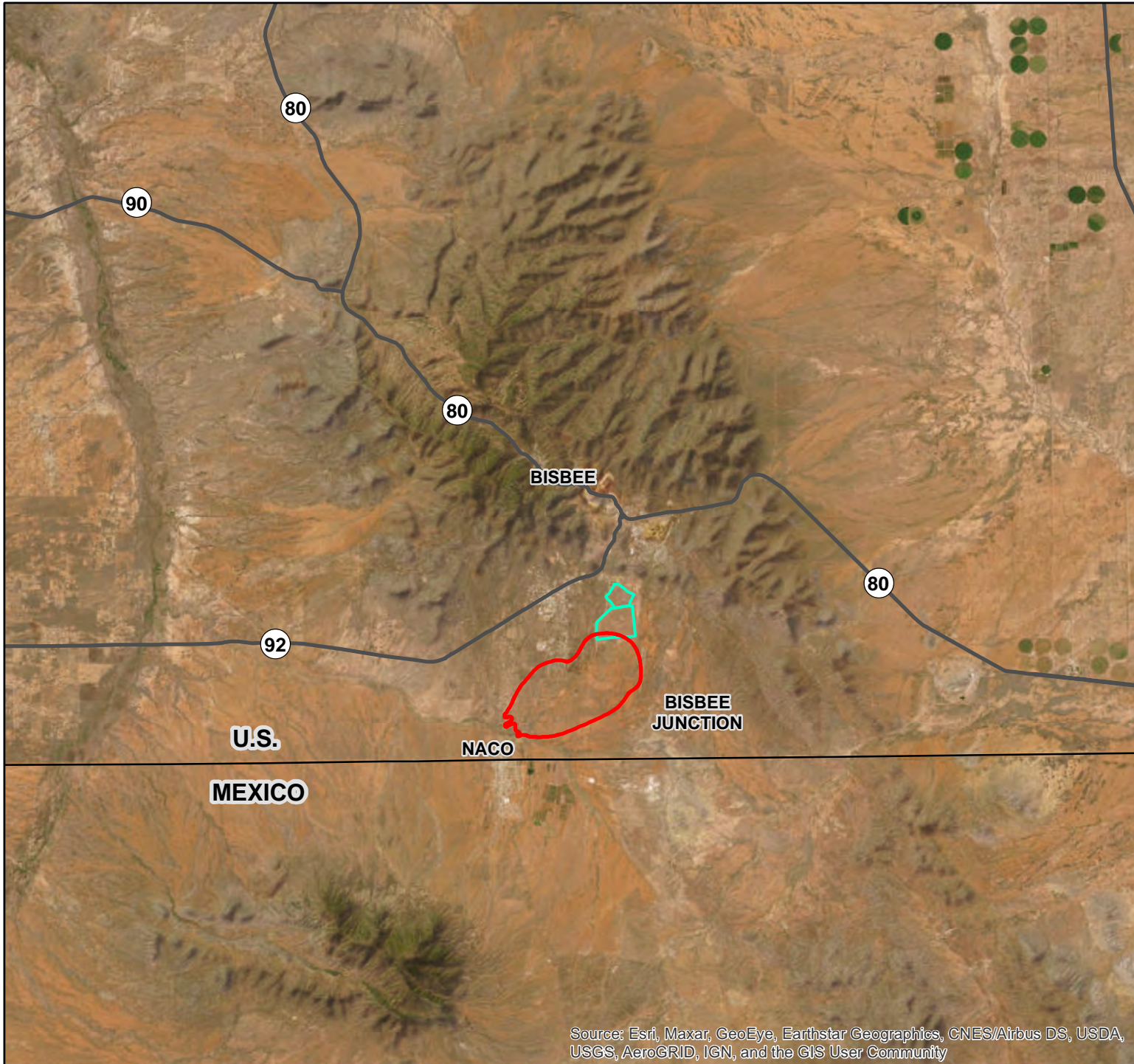
- Clear Creek Associates. 2014. Well Inventory Update, Task 1 of Aquifer Characterization Plan for Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. June 30, 2014.
- Clear Creek Associates. 2015. Mitigation Plan for Sulfate with Respect for Drinking Water Supplies, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 6, 2015.
- Clear Creek Associates. 2016. Annual Groundwater Monitoring Report for 2015, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 1, 2016.
- Clear Creek Associates. 2017. Annual Groundwater Monitoring Report for 2016, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 1, 2017.
- Clear Creek Associates. 2018. Annual Groundwater Monitoring Report for 2017, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. February 23, 2018.
- Clear Creek Associates. 2019. Annual Groundwater Monitoring Report for 2018, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 6, 2019.
- Clear Creek Associates. 2020. Annual Groundwater Monitoring Report for 2019, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 10, 2020.
- Clear Creek Associates. 2021. Annual Groundwater Monitoring Report for 2020, Mitigation Order on Consent Docket No. P-121-07, Cochise County, Arizona. March 15, 2021.
- 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.
- 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.

TABLE





**TABLE D.1.
Well Record Review Summary**

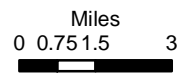
Well Registry Number	Owner Name	Well Name	Category	Mitigation Order Groundwater Monitoring Frequency	Operational	Usage
55-236750	Linda Lair	LAIR 750	Domestic	Annual if Installed	Unkown	Domestic Supply

FIGURES



Legend

-  Third Quarter 2022 250 mg/L Sulfate Plume
-  Concentration Tailing Storage Area (CTSA)
-  Highway
-  International Border



Notes:

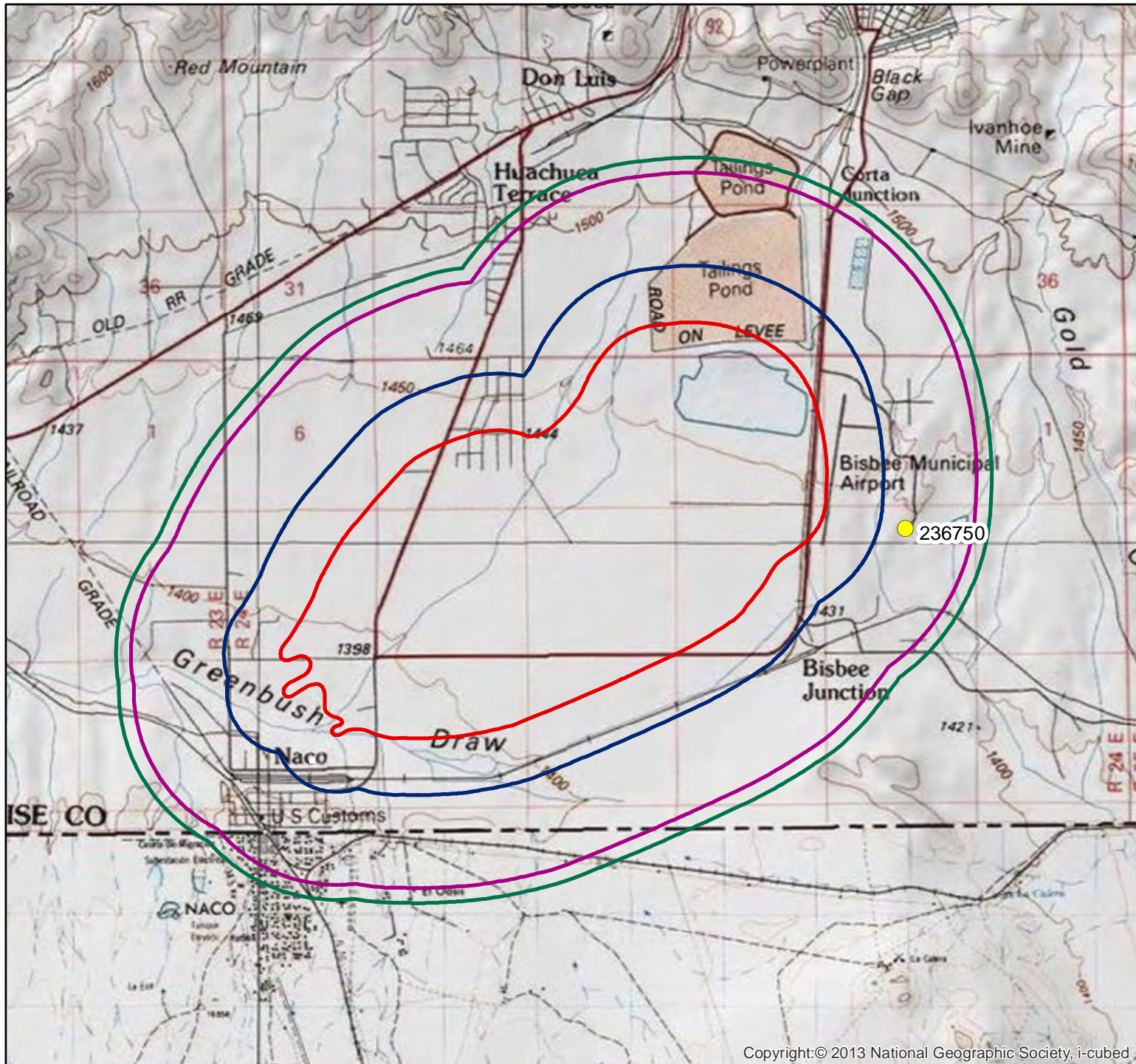
Projection: UTM Zone
12N NAD83

Date	1/13/2023	File ID	055038-585
------	-----------	---------	------------



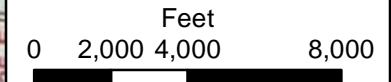
FIGURE D.1
Project Location Map

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- New Well Record
- Third Quarter 2022 250 mg/L Sulfate Plume
- 2,000 Foot Buffer
- 1 Mile Buffer
- 1.1 Mile Buffer



Notes:

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

Date	1/13/2023	File ID	055038-584
------	-----------	---------	------------

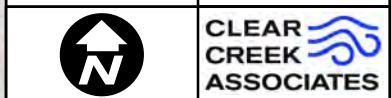


FIGURE D.2
 Well Search Area
 and New Well Registration

APPENDIX D.1

IMAGED RECORDS

Original upload for Registry: 55-236750

Record updated:

4/15/2022

--- The document starts on the next page. ---

Run Date: 04/15/2022

AZ DEPARTMENT OF WATER RESOURCES

WELL REGISTRY REPORT - WELLS55

Location	D 24.0 24.0 11 A B C	Well Reg.No	55 - 236750	AMA	NOT WITHIN ANY AMA OR INA
----------	----------------------	-------------	-------------	-----	---------------------------

Registered Name	LINDA LAIR 2429 S. SWAN RD BISBEE	File Type	NEW WELLS (INTENTS OR APPLICATIONS)
	AZ 85603	Application/Issue Date	04/14/2022

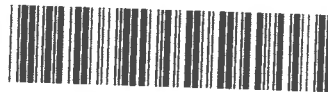
Owner	OWNER	Well Type	EXEMPT
Driller No.	133	SubBasin	DOUGLAS
Driller Name	TANNER WELL SERVICE, LLC	Watershed	WHITE WATER DRAW
Driller Phone	520-378-1606	Registered Water Uses	DOMESTIC
County	COCHISE	Registered Well Uses	WATER PRODUCTION
Parcel No.	101-42-003	Discharge Method	NO DISCHARGE METHOD LISTED
Intended Capacity GPM	10.00	Power	NO POWER CODE LISTED

Well Depth	0.00	Case Diam	0.00	Tested Cap	0.00
Pump Cap.	0.00	Case Depth	0.00	CRT	
Draw Down	0.00	Water Level	0.00	Log	
		Acres Irrig	0.00	Finish	NO CASING CODE LISTED

Contamination Site: NO - NOT IN ANY REMEDIAL ACTION SITE

Tribe: Not in a tribal zone

Comments



55-236750

Places Of Use

D 24 0 24 0 11 A B C

Current Action

4/14/2022 555 DRILLER & OWNER PACKETS MAILED

Action Comment: ml

Action History

4/14/2022 550 DRILLING AUTHORITY ISSUED

Action Comment: ml

4/14/2022 150 NOI RECEIVED FOR A NEW PRODUCTION WELL

Action Comment: ml

ARIZONA DEPARTMENT of WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, AZ 85007
602-771-8500
azwater.gov

April 15, 2022

LINDA LAIR
2429 S. SWAN RD
BISBEE, AZ 85603



DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

Registration No. 55- 236750
File Number: D(24-24) 11 ABC

Dear Well Applicant:

Enclosed is a copy of the Notice of Intention to Drill (NOI) a well which you or your driller recently filed with the Department of Water Resources. This letter is to inform you that the Department has approved the NOI and has mailed, or made available for download, a drilling authorization card to your designated well drilling contractor. The driller may not begin drilling until he/she has received the authorization, and must keep it in their possession at the well site during drilling. Although the issuance of this drill card authorizes you to drill the proposed well under state law, the drilling of the well may be subject to restrictions or regulations imposed by other entities.

Well drilling activities must be completed within one year after the date the NOI was filed with the Department. If drilling is not completed within one year, a new NOI must be filed and authorization from this Department received before proceeding with drilling. If the well cannot be successfully completed as initially intended (dry hole, cave in, lost tools, etc.), the well must be properly abandoned and a Well Abandonment Completion Report must be filed by your driller [as required by A.A.C. R12-15-816(F)].

If you change drillers, you must notify the Department of the new driller's identity on a Request to Change Well Drilling Contractor (form 55-71B). Please ensure that the new driller is licensed by the Department to drill the type of well you require. A new driller may not begin drilling until he/she receives a new drilling authorization card from the Department. Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

If you find it necessary to change the location of the proposed well(s), you may not proceed with drilling until you file an amended NOI with the Department. An amended drilling authorization card will then be issued to the well drilling contractor, which must be in their possession before drilling begins.

Arizona statute [A.R.S. § 45-600] requires registered well owners to file a Pump Installation Completion Report (form 55-56) with the Department within 30 days after the installation of pumping equipment, if authorized. A blank report is enclosed for your convenience. State statute also requires the driller to file a complete and accurate Well Drillers Report and Well Log (form 55-55) within 30 days after completion of drilling. A blank report form was provided to your driller with the drilling authorization card. You should insist and ensure that all of the required reports are accurately completed and timely filed with the Department.

Please be advised that Arizona statute [A.R.S. § 45-593(C)] requires a registered well owner to notify the Department of a change in ownership of the well and/or information pertaining to the physical characteristics of the well in order to keep this well registration file current and accurate. Any change in well information must be filed on a Request to Change Well Information form (form 55-71A). Forms may be obtained by contacting the Department, or online at: <https://new.azwater.gov/permitting-wells/well-forms-and-applications>.

Sincerely,

Melissa Lopez

Groundwater Permitting and Wells Section

ARIZONA DEPARTMENT OF WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, Arizona 85007

**ANY DEVIATION IN WELL LOCATION FROM THE PLOT PLAN APPROVED FROM THE COUNTY OR
LOCAL HEALTH AUTHORITY MUST BE RE-SUBMITTED FOR APPROVAL**

THIS AUTHORIZATION SHALL BE IN POSSESSION OF THE DRILLER DURING ALL DRILLING OPERATIONS

WELL REGISTRATION NO: **55-236750**

AUTHORIZED DRILLER: **TANNER WELL SERVICE, LLC**

LICENSE NO: **133**

NOTICE OF INTENTION TO DRILL EXEMPT WELL(S) HAS BEEN FILED WITH THE DEPARTMENT BY:

WELL OWNER: **LINDA LAIR 2429 S. SWAN RD BISBEE, AZ, 85603**

THE WELL(S) IS/ARE TO BE LOCATED IN THE:

SW 1/4 of the NW 1/4 of the NE 1/4 Section 11 Township 24.0 SOUTH Range 24.0 EAST

NO. OF WELLS IN THIS PROJECT: **1**

ASSESSOR'S PARCEL NO: **101-42-003**

THIS AUTHORIZATION EXPIRES AT MIDNIGHT ON THE DAY OF **April 15, 2023**

Sella Murillo

GROUNDWATER PERMITTING AND WELLS

THE DRILLER MUST FILE A LOG OF THE WELL WITHIN 30 DAYS OF COMPLETION OF DRILLING.

NOTICE! The Authorization to drill this well **DOES NOT** constitute or guarantee an approval to use the well for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A) without official prior approval from the Department.





Arizona Department of Water Resources
Groundwater Permits and Wells Section
P.O. Box 36020 Phoenix, Arizona 85067-6020
(602) 771-8527 • Fax (602) 771-8689
www.azwater.gov

RECEIVED

- Review instructions prior to completing form in black or blue ink.
You must include with your Notice:
Check or money order in the amount of the appropriate filing fee.
For a well located within an AMA or INA, the fee is \$150.00.
For a well not located within an AMA or INA, the fee is \$100.00 if the well will be used solely for domestic purposes...
Shared wells: While Arizona water law governs how a well subject to a well sharing agreement is to be drilled and located, it DOES NOT govern the operation or management of a well sharing agreement.
Authority for fee: A.R.S. § 45-596 and A.A.C. R12-15-104.

Notice of Intention to Drill, Deepen, Replace or Modify a Well (except a Non-Exempt Well in an Active Management Area)

\$150 or \$100 FEE

TO BE COMPLETED BY ADWR
FILE NUMBER: D(24-24)11ABC
RECEIVED DATE: 4/14/2022
ISSUED DATE: 4/15/2022
WELL REGISTRATION NUMBER: 55-236750
FILING MANUALLY
FILING ELECTRONICALLY (driller's email required)

SECTION 1. COUNTY OR LOCAL HEALTH AUTHORITY APPROVAL (if applicable)

If water from the proposed well will be used for domestic purposes on a parcel of land of 5 or fewer acres, the applicable county or local health authority must endorse all items in Section 1 within one year before submission to the Department of Water Resources. You must also attach a site plan (pg. 3).

- CHECK ONE
County or Local Health Authority Recommends Approval (pursuant to A.R.S. § 45-596 (G) and (F))
Field Inspection Performed
Site Plan Review Only
Insufficient Information to Make a Determination - If checked, please submit supplemental form 55-40C. A.R.S. § 45-596 (G) and (F)

Official County or Local Seal or Stamp

COUNTY OR LOCAL AUTHORITY NAME AND TITLE

TELEPHONE NUMBER

DATE

COUNTY OR LOCAL AUTHORITY SIGNATURE

SECTION 2. REGISTRY INFORMATION

To determine the place of water use and location of well, please refer to the Well Registry Maps and Google Earth at: (https://gisweb3.azwater.gov/WellReg) and (http://www.earthpoint.us/townships.aspx)

Well Type: Exempt
Proposed Action: Drill New Well
Location of Well: 2429 S. SWAN RD, COCHISE
TOWNSHIP (N/S): 24S, RANGE (E/W): 24E, SECTION: 11
COUNTY ASSESSOR'S PARCEL ID NUMBER: BOOK 101, MAP 42, PARCEL 003, # OF ACRES 40.13
EXPECTED LATITUDE: 31° 21' 44.28" N, EXPECTED LONGITUDE: 109° 52' 31.5" W
Place of Water Use: Is the groundwater basin where the well will be drilled the same as the place where the water will be used? Yes [X] No []
TOWNSHIP (N/S): 24S, RANGE (E/W): 24E, SECTION: 11, 160 ACRE: NE 1/4, 40 ACRE: NW 1/4, 10 ACRE: SW 1/4

SECTION 3. OWNER INFORMATION

Land Owner: LINDA LAIR
Well Owner: (checked)
FULL NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL: LINDA LAIR
MAILING ADDRESS: 2429 S. SWAN RD.
CITY / STATE / ZIP CODE: BISSBEE, AZ 85603
CONTACT PERSON NAME AND TITLE: LINDA LAIR, OWNER
TELEPHONE NUMBER: 520-559-4466
EMAIL: llair.bisbee@outlook.com

Notice of Intent to Drill, Deepen, Replace or Modify a Well

SECTION 4.			
Questions	Yes	No	If Yes:
1. Is the proposed well site within 100 feet of a septic tank system, sewer disposal area, landfill, hazardous materials or petroleum storage area or tank?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	You must also request a variance (A.A.C. R12-15-818).
2. Is there another well name or identification number associated with this well (e.g., Lot 35 Well, Smith Well, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(please state)
3. Is the proposed well a NEW well to be located within an Active Management Area? (See instructions)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	You must also file a supplemental form 55-40A, unless the well is a replacement well and the total number of operable exempt wells on the land is not increasing. A.R.S. § 45-454(C) & (D)
4. Is the proposed well the second exempt well on this parcel for the same use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	You must also file a supplemental form 55-40B, if the proposed well is in an Active Management Area. A.R.S. § 45-454(I)

SECTION 5. DRILLING AUTHORIZATION		SECTION 6. WATER / SITE INFORMATION	
Drilling Firm		Principal Use of Water	Other Uses of Water
NAME Tanner Well Service, LLC		CHECK ONE	CHECK ALL THAT APPLY
DWR LICENSE NUMBER 133	ROC LICENSE CATEGORY R-53 182725	<input type="checkbox"/> Irrigation*	<input type="checkbox"/> Irrigation
TELEPHONE NUMBER (520) 378-1606	FAX NUMBER	<input type="checkbox"/> Commercial	<input type="checkbox"/> Commercial
MAILING ADDRESS P.O. Box 2234		<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Domestic
CITY / STATE / ZIP CODE Sierra Vista, AZ 85636		<input type="checkbox"/> Municipal	<input type="checkbox"/> Municipal Reset Other Water Uses
DRILLERS EMAIL tannerwell@gmail.com		<input type="checkbox"/> Industrial	<input type="checkbox"/> Industrial
DATE CONSTRUCTION IS SCHEDULED TO BEGIN MAY 2022		<input type="checkbox"/> Stock	<input type="checkbox"/> Stock
		<input type="checkbox"/> Remediation	<input type="checkbox"/> Remediation
		<input type="checkbox"/> Dewatering	<input type="checkbox"/> Dewatering
		<input type="checkbox"/> Other (please specify):	<input type="checkbox"/> Other (please specify):

*Pursuant to ARS § 45-402(23) Irrigation is defined as applying water to two or more acres of land to produce plants or parts of plants for sale or human consumption, or for use as feed for livestock, range livestock or poultry.

NOTE: If this is a Notice of Intent to construct a new well that will be used for the purpose of withdrawing groundwater for transportation to an Active Management Area (AMA) pursuant to A.R.S. § 45-552, 45-553, 45-554 or 45-555(A), the authorization to drill the well issued in association with this Notice shall not be considered the approval to transport groundwater to an AMA. (See instructions)

SECTION 7. PROPOSED WELL CONSTRUCTION DESIGN (attach separate sheet if needed)																
Borehole				Casing												
DEPTH FROM SURFACE		BOREHOLE DIAMETER (inches)	DEPTH FROM SURFACE		OUTER DIAMETER (inches)	MATERIAL TYPE (T)				PERFORATION TYPE (T)				GROUTING MATERIAL		
FROM (feet)	TO (feet)		FROM (feet)	TO (feet)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE		SLOTTED	IF OTHER TYPE, DESCRIBE
0	20	12	+1	20	8.63	X*										CEMENT
20	300	8	0	300	6.63		X			X						
			200	300	6.63		X						X			

* ADWR well construction standards require a surface seal consisting of a minimum of 20 feet of steel casing. Cement grout must be used to fill the annular space between the surface casing and the borehole. (A.A.C. R12-15-811(B))

The Department's issuance of an authorization to drill a well is not a determination of whether water withdrawn from the well is legally surface water or groundwater. The legal nature of the water withdrawn from the well may be the subject of court action in the future as part of a determination of surface water rights in your area. If there are court proceedings that could affect your well, you will be notified and be given the opportunity to participate. If you have questions regarding the legal nature of the water to be withdrawn from your proposed well, please consult with an experienced civil engineer, hydrologist or water rights attorney.

For the purposes of determining appropriate fees outside AMAs or INAs, "domestic purposes" is defined as "uses related to the supply, service and activities of households and private residences and includes the application of water to less than 2 acres of land to produce plants or parts of plants for sale or human consumption, or for use as feed for livestock, range livestock or poultry, as such terms are defined in A.R.S. § 3-1201."

Notice of Intent to Drill, Deepen, Replace or Modify a Well

WELL REGISTRATION NUMBER

55 - 236750

SECTION 8. PERMISSION TO ACCESS

By checking this box, I hereby provide ADWR permission to enter the property for the purpose of taking water level measurements at this well. Advance notice can be provided. (See instructions)

SECTION 9. WELL SITE PLAN

- ❖ If this well will be a domestic well on 5 acres or less, please draw the following: (1) the boundaries of your property; (2) the proposed well location; (3) the locations of all septic tank systems and sewer systems on the property or within 100 feet of the well location, even if on neighboring properties; and (4) any permanent structures on the property that may aid in locating the well. If the parcel is vacant land or lacks a septic tank or sewer system, please indicate this.
- ❖ Indicate the distance between the proposed well location and any septic tank system or sewer system. County Assessor's ID# _____ - _____ - _____

COUNTY OR LOCAL HEALTH AUTHORITY APPROVAL CODE


COUNTY APPROVAL CODE

If applicant is filing this NOI electronically via the ADWR website and County approval is required, please indicate approval by providing a County Approval Code.

SECTION 10. LAND OWNER AND WELL OWNER SIGNATURE

I state that this notice is filed in compliance with A.R.S. § 45-596 and is complete and correct to the best of my knowledge and belief.

Land Owner	Well Owner (if different from Land Owner, See instructions)
PRINT NAME AND TITLE <i>Linda Lair</i>	PRINT NAME AND TITLE
SIGNATURE OF LAND OWNER <i>Linda Lair</i>	SIGNATURE OF WELL OWNER
DATE <i>1-6-22</i>	DATE
<input checked="" type="checkbox"/> By checking this box, you agree to allow ADWR to contact you via electronic mail.	<input type="checkbox"/> By checking this box, you agree to allow ADWR to contact you via electronic mail.
EMAIL ADDRESS <i>llair.bisbee@outlook.com</i>	EMAIL ADDRESS

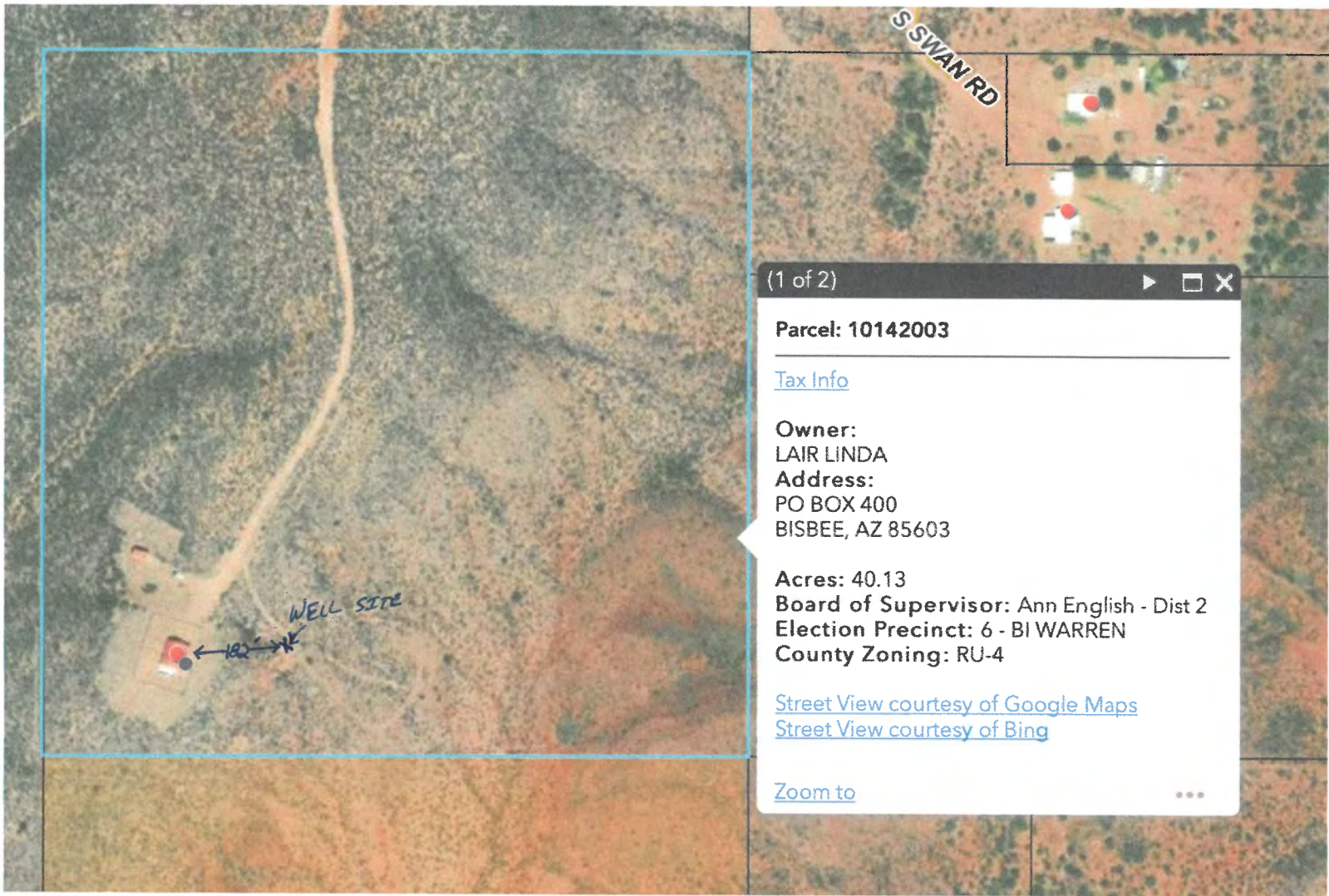
SEE ATTACHED MAP	 <p>1" = _____ ft</p>
------------------	---

VALIDATE FORM

RESET FORM

SAVE FORM

PRINT FORM



S SWAN RD

WELL SITE
← 182 →

(1 of 2) ▶ □ ✕

Parcel: 10142003

[Tax Info](#)

Owner:
LAIR LINDA

Address:
PO BOX 400
BISBEE, AZ 85603

Acres: 40.13
Board of Supervisor: Ann English - Dist 2
Election Precinct: 6 - BI WARREN
County Zoning: RU-4

[Street View courtesy of Google Maps](#)
[Street View courtesy of Bing](#)

[Zoom to](#) ⋮



101-42-00300 New Parcel [Main Menu](#) [Contact Us](#) [Help](#)

- PARCEL INQUIRY
- TAX SUMMARY
- TAX YEAR DUE
- PAYMENT HISTORY
- APPLIED INT/FEES
- VALUATIONS
- OWNER HISTORY**
- SPLIT HISTORY
- UPDATE ADDRESS
- TAX BILL ESTIMATOR
- VIEW PARCEL MAP
- PAYMENTS
- PAYMENT OPTIONS
- PAY ONLINE
- REPORTS
- TAX BILL/PMT COUPON
- PAYMENT RECEIPT
- TAX RECEIPT
- TAX STATEMENT

Owner History

Ownership information is provided by the Cochise County Assessors office. Clicking the link below will direct you to their website where you can request a change to the current owner mailing address information.

[Update Mailing Address Information](#)

Effective Date	Owner Name & Address
10/08/2021	LAIR LINDA PO BOX 400 BISBEE, AZ 85603
05/20/2020	OSBORN DALE G PO BOX 5027 BISBEE, AZ 85603
09/10/2013	OSBORN DALE G PO BOX 5027 BISBEE, AZ 85603
08/24/2012	OSBORN DALE G PO BOX 86688 TUCSON, AZ 85754
09/06/2011	OSBORN DALE G 7530 N LA CHOLLA BLVD TUCSON, AZ 85741
09/21/2010	OSBORN DALE G *** 7530 N LA CHOLLA BLVD TUCSON, AZ 85741
09/21/2010	% LAW OFFICE NOLAN Q REIDHEAD, PC *** 7530 N LA CHOLLA BLVD TUCSON, AZ 85741
09/21/2005	OSBORN DALE G & COLEEN A PO BOX 86688 TUCSON, AZ 85754
08/29/2002	OSBORN DALE G & COLEEN A PO BOX 5027 BISBEE, AZ 85603

items per page
 1 - 9 of 9 items

Arizona Department of Water Resources

1110 West Washington Street, Suite 310

Phoenix AZ 85007

Customer:

TANNER WELL SERVICE, LLC
PO BOX 2234
SIERRA VISTA, AZ 85636

Receipt #: 22-90590
Office: MAIN OFFICE
Receipt Date: 04/14/2022
Sale Type: IN_PERSON
Cashier: WRSAM

Item No.	Function Code	AOBJ	Description	Ref ID	Qty	Unit Price	Ext Price
67489	122221	4439-TT	Notice of intention to drill a well that will not be located in an active management area or irrigation non-expansion area, that will be used solely for domestic purposes and that will have a pump with a maximum capacity of not more than 35 gallons per mi	236750	1	100.00	100.00
RECEIPT TOTAL:							100.00

Payment type: CHECK

Amount Paid: \$100.00

Payment Received Date: 04/14/2022

Check #	9373
---------	------

Notes: FROM TTA.