SECOND QUARTER 2013
GROUNDWATER MONITORING REPORT

TASKS 1.0 AND 2.2 OF AQUIFER CHARACTERIZATION PLAN
MITIGATION ORDER ON CONSENT DOCKET NO. P-121-07
COCHISE COUNTY, ARIZONA

Prepared for:

FREEPORT-MCMORAN CORPORATION
Copper Queen Branch
36 West Highway 92
Bisbee, Arizona 85603

Prepared by:

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July 11, 2013
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Approved by:

James R. Norris
Arizona Registered Geologist No. 30842

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1. INTRODUCTION

This report provides the results of groundwater monitoring conducted by Freeport-McMoRan Corporation Copper Queen Branch (CQB) in the second quarter 2013 in the vicinity of the Concentrator Tailing Storage Area (CTSA). Groundwater monitoring is conducted pursuant to Tasks 1.0 (well inventory of drinking water wells) and 2.2 (groundwater monitoring) of the Work Plan (Hydro Geo Chem, Inc. [HGC], 2008) to characterize sulfate in the vicinity of the CTSA (and subsequent modifications). The Work Plan was initially submitted to Arizona Department of Environmental Quality (ADEQ) on December 17, 2007 pursuant to the Mitigation Order on Consent Docket No. P-121-07 (ADEQ, 2007). CQB initiated water sampling prior to work plan approval while ADEQ was commenting on the Work Plan and CQB was responding to their comments. Revision 1 of the Work Plan was submitted to ADEQ on July 3, 2008 and ADEQ approved the Work Plan on August 3, 2008. On January 25, 2010 CQB proposed a revised groundwater monitoring program (CQB, 2010). The revised monitoring program was approved by ADEQ in April 2010 (ADEQ, 2010). Clear Creek Associates (Clear Creek) prepared this groundwater monitoring report on behalf of CQB.

1.1 Scope of Groundwater Monitoring

The objectives of groundwater monitoring are:

- Determination of the sulfate concentration in drinking water supply (DWS) wells outside of and within one mile of the sulfate plume for the purposes of identifying the need for mitigation actions and tracking the plume margin,
- Identification of the plume margin for ongoing delineation of the plume extent and migration,
- Documentation of the sulfate concentration in the plume and at areas distal to the plume to monitor long-term concentration trends, and
- Measurement of water levels in the vicinity of the plume to document potentiometric conditions (CQB, 2010).
The groundwater sulfate plume consists of groundwater with sulfate in excess of 250 milligrams per liter (mg/L) attributable to the CTSA. The sample collection and analysis specifications of the Work Plan have been retained throughout the groundwater monitoring program. Table 1 provides the schedule for the groundwater monitoring program. Dissolved sulfate is the only constituent monitored.

Figure 1 presents a geologic map (Hayes and Landis, 1964) of the study area and well locations where data reported herein have been collected. Figure 2 presents the labeled well locations. Table 2 lists wells scheduled under the groundwater monitoring program, their availability for sampling, and their sampling status in the second quarter 2013. The collection of groundwater samples was conducted by CQB and Clear Creek personnel. Groundwater sampling and analysis methods used by CQB and Clear Creek are described in the Quality Assurance Project Plan (QAPP) contained in Appendix F of the Work Plan (HGC, 2008). Results of groundwater monitoring are presented in Section 2.

This quarterly report includes groundwater elevation data for five wells that are west of the area previously monitored for the Mitigation Order. The wells, LADD 251, LADD 538, LADD 837, LADD 977, and ASLD 435, are between 1,400 and 13,500 feet west of Naco Sanitary District Well NSD-03 (Figure 2). Although the wells are 1.9 to 4.3 miles west of the sulfate plume, CQB expanded monitoring in this area to characterize water level conditions in support of groundwater flow modeling for the Feasibility Study. Survey coordinates for the LADD wells, ASLD 435, and FRANCO 101 are in Appendix A.
2. GROUNDWATER MONITORING RESULTS

2.1 Results of Monitoring

Analytical results and groundwater elevation data for the second quarter 2013 are tabulated in Tables 3 and 4, respectively, along with information previously collected under the Mitigation Order. Figure 3 shows the concentrations of dissolved sulfate in the wells sampled in the second quarter 2013. The highest sulfate concentration measured at co-located wells was used for concentration contouring. Figure 4 shows groundwater elevations in the second quarter 2013. Groundwater elevations were calculated using depth to water measurements made under static (nonpumping) whenever possible. At wells where multiple samples or water levels were collected during the second quarter 2013, the most recent data are shown on the figures.

2.2 Quality Assurance/Quality Control Review

Pursuant to Section 6.4 of the QAPP, a data verification report was prepared for quality assurance and quality control purposes. The data verification report, analytical laboratory reports, and groundwater sampling forms for samples collected by Clear Creek and CQB during the second quarter 2013 are included in Appendices B, C, and D, respectively. As determined by the data verification review, the analytical results for samples collected in the second quarter 2013 by Clear Creek and CQB are of acceptable quality for use in the groundwater monitoring being conducted pursuant to the Mitigation Order.
3. FINDINGS

This report provides the results of groundwater monitoring conducted within the vicinity of the CTSA for the second quarter 2013. Groundwater samples were collected from 55 wells and depth to water measurements were collected in 54 wells. The December 2010 Aquifer Characterization Report (Clear Creek, 2010) provides detailed descriptions of the hydrogeology, water quality, and sulfate plume. Findings based on the second quarter 2013 and historical groundwater monitoring are described below.

- Sulfate concentration data indicate that the plume extends from the vicinity of the former evaporation pond (Figure 2) southwest to the vicinity of Naco and south to the vicinity of Bisbee Junction (Figure 3). The groundwater monitoring data indicate that the sulfate plume extends over an oblong area of approximately 2 miles by 3.9 miles and is contained primarily in the basin fill and undifferentiated Bisbee Group except near the former evaporation pond where wells in the Glance Conglomerate have sulfate concentrations greater than 250 mg/L. The extent of the sulfate plume and the sulfate contours as drawn on Figure 3 are based on both historical and current sulfate concentration data. Historical sulfate concentration data are available in this report and in the Aquifer Characterization Report (Clear Creek, 2010).

- Comparison of the second quarter 2013 sulfate concentrations with previous quarters indicates no large scale change in the plume geometry (represented by the position of the 250 mg/L sulfate concentration contour) since the Mitigation Order sampling began in 2008, although concentration contours within the plume have been modified to reflect current concentrations.

- Figure 5 shows sulfate concentrations through time at public drinking water supply wells. Sulfate concentrations have remained relatively stable over time, although NWC-04 displays the greatest variability in concentration.

- Groundwater elevations decrease from east to west across the study area, indicating westerly groundwater flow (Figure 4).

- Figures 6 and 7 show groundwater elevations over time for BMO monitor wells with screened intervals in basin fill and bedrock, respectively. Groundwater elevations in BMO monitor wells screened in basin fill have decreased over time. The maximum rate of decline measured in the basin fill through the most recent quarter sampled is 1.46 feet per year in BMO-2010-3B, which has declined 3.98 feet between July 2010 and April 2013. Groundwater elevations in most BMO monitor wells screened in bedrock have also declined over time. The maximum rate of decline measured in the bedrock through the most recent quarter sampled is 7.47 feet per year in BMO-2008-10GU, which has declined 29.42 feet between August 2008 and July 2012. Water level declines range from 0.8 to 4.3 feet per year in BMO-2008-1G, BMO-2008-5M, BMO-2008-6M, BMO-2008-7M, BMO-2008-8M,
4. REFERENCES


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<th>Semiannual Sampling First Quarter</th>
<th>Quarterly Sampling Second Quarter</th>
<th>Annual Sampling Third Quarter</th>
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**Notes:**

35-71891 = ADWR 35 Database  
ADWR = Arizona Department of Water Resources  
NR = No Record  
WLO = Water Level Only
### TABLE 2
Summary of Groundwater Monitoring Program for Second Quarter 2013

<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bls)</th>
<th>Water Level Measured?</th>
<th>Water Sample Collected?</th>
<th>Status</th>
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<tbody>
<tr>
<td>ANDERSON 396</td>
<td>613396</td>
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<td>Plume</td>
<td>236</td>
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<td>Y</td>
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<td>AWC-02</td>
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<td>Arizona Water Company</td>
<td>Well Inventory</td>
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<td>BIMA</td>
<td>577927</td>
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<td>Well Inventory</td>
<td>465</td>
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<tr>
<td>BMO-2008-3B</td>
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## TABLE 2
Summary of Groundwater Monitoring Program for Second Quarter 2013

<table>
<thead>
<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bgs)</th>
<th>Water Level Measured?</th>
<th>Water Sample Collected?</th>
<th>Status</th>
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<td>CHAMBERS</td>
<td>629807</td>
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<td>COB MW-1</td>
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<td>COB MW-2</td>
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<td>Well Inventory</td>
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<td>Y</td>
<td>Water quality sample collected in April 2013.</td>
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<tr>
<td>DOUGLASS 791</td>
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<td>Douglass</td>
<td>Plume</td>
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<tr>
<td>DOUGLASS 792</td>
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<td>Douglass</td>
<td>Plume</td>
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<td>N</td>
<td>N</td>
<td>Well is not scheduled for second quarter sampling.</td>
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<tr>
<td>DURAZO</td>
<td>NR</td>
<td>Durazo</td>
<td>Plume</td>
<td>ND</td>
<td>N</td>
<td>N</td>
<td>Well is not operational. Unable to measure water level because wellhead is inaccessible.</td>
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<td>N</td>
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<td>Water quality sample collected in May 2013. Unable to measure water level because of obstruction in well.</td>
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</tbody>
</table>
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<th>Status</th>
</tr>
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<tbody>
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<td>EPPELE 641</td>
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<td>Well Inventory</td>
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<td>FRANCO 101</td>
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<td>Franco</td>
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<tr>
<td>FRANCO 383</td>
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<td>GARNER 557</td>
<td>558557</td>
<td>Garner</td>
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<td>GARNER 635</td>
<td>587635</td>
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<td>680</td>
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<td>628547</td>
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<td>250</td>
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<td>Well Inventory</td>
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<td>MARCELL</td>
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<td>Well Inventory</td>
<td>220</td>
<td>N</td>
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<td>MCCONNELL 265</td>
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<td>Plume</td>
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### TABLE 2
Summary of Groundwater Monitoring Program for Second Quarter 2013

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### TABLE 2
Summary of Groundwater Monitoring Program for Second Quarter 2013

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<tr>
<th>Well Name</th>
<th>ADWR 55 Registry Number</th>
<th>Owner</th>
<th>Monitoring Purpose</th>
<th>Casing Depth (feet bls)</th>
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Notes:
- 35-71891 = ADWR 35 Database
- ADWR = Arizona Department of Water Resources
- bls = below land surface
- N = No
- ND = No Data
- NR = No Record
- Y = Yes
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Compilation of Analytical Results For Sulfate and Field Parameters
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Compilation of Analytical Results For Sulfate and Field Parameters

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N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Groundwater Monitoring Reports\2013 Q2 CQB Groundwater Monitoring Report\2013 Q2 CQB Groundwater Table.xls

16 of 29
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Compilation of Analytical Results For Sulfate and Field Parameters

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Notes:
- SC = Specific Conductance
- SU = Standard Units
- µS/cm = microsiemens per centimeter
- M = Multi-Meter Malfunction
- NR = No Record
- ND = No Data
- DUP = Blind duplicate
- ADWR = Arizona Department of Water Resources
- deg C = degrees Celsius
- MU = Millennium Meter
- NP = No Performance
- M = Multi-Meter Malfunction
- 1 Verified drinking water supply well, sample collected for sulfate trend analysis and interim action evaluation

35-71891 = ADWR 35 Database
35-71910 = ADWR 35 Database
M = Multi-Meter Malfunction
mg/L = milligrams per liter
### TABLE 4
Compilation of Groundwater Elevation Data

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### TABLE 4
Compilation of Groundwater Elevation Data

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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 Measuring point elevation for third quarter 2008 changed to reflect well survey completed on September 18, 2008
2 Depth to Water measurement provided by Arizona Water Company
3 Measuring point elevation changed to reflect survey results June 2012 and applied to all measurements collected
4 Measuring point elevation changed to reflect survey results September 10, 2010 and applied to all measurements collected
5 Depth to Water measurement provided by Naco Water Company
6 Measuring point elevation for second quarter 2009 changed to reflect well survey completed on April 27, 2009
7 Well previously identified as ROGERS 803
8 Measuring point elevation changed to reflect survey results September 10, 2010 and applied to all measurements collected
FIGURE 3
SULFATE CONCENTRATIONS IN GROUNDWATER FOR SECOND QUARTER 2013

Notes:
Projection: UTM Zone 12N NAD83
mg/L = milligrams per liter
In areas where no data were collected in the second quarter, contours are based on third quarter 2012 and first quarter 2013 data.

Legend

- Well ID
- SO4 Concentration (mg/L)
- SO4 Concentration Contours (dashed where inferred)
- Faults (dashed where inferred)
- CTSA Facility
- Co-located Wells
- Screen (ft bgs): Sulfate Levels (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

Copyright: © 2013 National Geographic Society
Groundwater Elevation Contours (10 ft)
Groundwater Elevation Contours (50 ft)
(dashed where inferred)
Faults (dashed where inferred)
CTSA Facility

Legend

- Well ID
- Groundwater Elevation (feet amsl)
- 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

Projection: UTM Zone 12N NAD83
amsl = above mean sea level
bgs = below land surface
Groundwater elevation contours are based on first quarter 2013 data and adjusted with current data.
FIGURE 5
SULFATE CONCENTRATION OVER TIME IN PUBLIC DRINKING WATER SUPPLY WELLS
FIGURE 6
HYDROGRAPHS FOR BMO MONITOR WELLS IN BASIN FILL
APPENDIX A
Survey Data

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All coordinates listed in UTM Zone 12N Geoid 09 (Meters)
Data Provided by CQB
APPENDIX B

DATA VERIFICATION REPORT
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1. INTRODUCTION

This report summarizes the data verification review of groundwater samples collected and analyzed during the second quarter 2013 by Clear Creek Associates (Clear Creek) and Freeport-McMoRan Corporation Copper Queen Branch (CQB) pursuant to Mitigation Order on Consent Docket No. P-121-07 (ADEQ, 2007). Clear Creek and CQB collected groundwater samples pursuant to the groundwater monitoring program approved by ADEQ in April 2010 (CQB, 2010 and ADEQ, 2010). Analytical results for groundwater samples collected for this project during the second quarter 2013 were provided to Clear Creek by SVL Analytical, Inc. (SVL) of Kellogg, Idaho for preparation of the second quarter 2013 Groundwater Monitoring Report.

Quality assurance (QA) and quality control (QC) procedures are specified in the Quality Assurance Project Plan for Aquifer Characterization Plan (QAPP) (Appendix F of HGC, 2008) for field sampling, chain-of-custody (COC) documentation, laboratory analysis, and reporting. This report reviews field sampling for samples collected by Clear Creek and CQB. Additionally, sample handling and laboratory QA/QC data are evaluated according to the data quality indicators (DQIs) given in the QAPP.

The laboratory reports for the second quarter 2013 samples including COC forms, laboratory correspondence, QC summaries, data qualifiers, and internal QA/QC tests performed by the laboratory are in Appendix C. Based on the results of laboratory control samples, matrix spike/recovery and blank spikes, SVL did not advise any modifications regarding the usability and data validation status of the laboratory test results. The analytical results for all 66 samples collected by Clear Creek and CQB are contained in 9 reports with the SVL laboratory identification numbers in the following table.
**SVL ID** | **WELLS REPORTED**
--- | ---
W3D0285 | HOWARD 312, HOWARD NR, EPPELE 641, BANKS 986, PALMER, RAY, NOTEMAN, EAST, DODSON, PANAGAKOS, MARCELL, COOPER, MCCONNELL 459, WEED, BIMA, FRANCO 383, TVI 875, DUP20130408, EQB20130410, FB20130410
W3D0286 | AWC-02, AWC-04, AWC-05, AWC-03, RUIZ
W3D0429 | NWC-04, NWC-06, NWC-02, TM-10, PIONKE 517, KEEFER, ROGERS E, WEISKOPF 897, WEISKOPF 802, CHAMBERS, BMO-2008-4B, PARRA, GARNER 635, ANDERSON 458, ROGERS 803, BMO-2010-3M, BMO-2010-3B, ZANDER, DUP20130416, EQB20130417, FB20130417
W3D0464 | MCCONNEL 265, RAMIREZ, MOORE
W3E0386 | SCHWARTZ, ECHAVE, NWC-04
W3F0213 | NWC-04
W3F0397 | BOOTH, DUP20130614
W3F0493 | FB20130614, EQB20130614

Number of wells sampled: 55  
Number of well samples collected (including duplicates and multiple samples from one well): 60  
Number of duplicate samples collected: 3  
Number of field and equipment blanks collected: 6  
Total number of samples collected: 66
2. FIELD OPERATIONS

Field operations for this project consisted of the following for all monitoring wells sampled by Clear Creek and CQB:

- Static water level measurement if possible,
- Well purging,
- Collection of water quality field parameters (pH in standard units [SU], specific conductance [SC] in microSiemens per centimeter [µS/cm], and temperature in degrees Celsius [°C]),
- Collection of groundwater samples for water quality analysis,
- Collection of groundwater QA and QC samples, and
- Equipment decontamination.

Documentation of the field activities was evaluated for quality assurance and has been deemed to have 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 monitoring was conducted by Clear Creek and CQB. Water levels were measured while the well pump was off. Because it is not always possible to ascertain how long the pump had been off prior to water level measurements (for wells equipped with pumps), some water levels may be affected by residual drawdown. 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. Each measurement was collected and verified by measuring the depth to water multiple times in order to obtain a consistent reading and accurate measurement.

2.2 Groundwater Sampling

During this monitoring period, an attempt was made to collect groundwater samples from wells designated in the groundwater monitoring program approved by ADEQ (ADEQ, 2010). Construction and location information for the wells sampled for water quality and water level measurements is listed in Tables 2 and 4 of the main text.
2.2.1 Pre-Sampling Field Activities

On each day of sampling, the pH and SC multipurpose meter was calibrated. 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 probe to ensure accurate measurement. In addition to calibrating the instruments each day, 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 deionized 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 deionized 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 D) at each well for which this was the case. Purge water was discharged to the ground surface.

Field measurements 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 degrees Celsius for temperature and 100 microSiemens/centimeter for specific conductance as described in Section 4.2.1.2 of the QAPP.

During this monitoring period 60 groundwater samples (duplicate and multiple samples included) were collected for analysis from 55 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. All bottles were provided by the laboratory and maintained in a clean and secure work area until used in the field.

---

1 Field pH meters were calibrated using a three point calibration
2 Field SC meters were calibrated using standard stock solutions
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 a small amount of Alconox® detergent and deionized water. After washing, the equipment was rinsed with deionized water.

After sample collection, samples from each well were placed into a plastic bag and stored on ice until they could be packed securely for shipping to SVL. In addition, the sample collected from each well was placed in a bag without ice to prevent the label from getting soaked with water and rubbing off or becoming illegible.
3. SAMPLE HANDLING

All samples collected by Clear Creek and CQB were shipped to SVL for analysis. COC documentation accompanied all samples submitted and included the sample name, collection date and time. Laboratory reports include the date and time the samples were received by SVL. As noted on the analytical data reports from SVL, all of the sample bottles were received intact, properly preserved, and in good condition. The samples were shipped within one to five days of sample collection and the time between sample collection and receipt of samples by SVL was one to seven days. The samples were collected, shipped, and received by SVL 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 proper licensure, the use of approved analytical methods, QC measurements, appropriate turn-around-time for analysis (timeliness), method detection limits (MDLs), and practical quantitation limits (PQLs). Each of these controls is discussed in the following subsections.

The review of laboratory QC included a review to identify any qualified data and an assessment to determine 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.

4.2 Analytical Method

EPA method 300.0 was used for sulfate analysis during this monitoring period.

4.3 Method Detection Limit (MDL) and Reporting Limit (RL)

The MDL and RL of the analytical method used by SVL are shown in the following table. The MDL for analyses of samples was equal to or less than the target MDL identified in the QAPP.

<table>
<thead>
<tr>
<th>Method</th>
<th>MDL (mg/L)</th>
<th>RL (mg/L)</th>
<th>Target MDL¹</th>
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</thead>
<tbody>
<tr>
<td>EPA 300.0</td>
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<td>0.30</td>
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</tr>
</tbody>
</table>

mg/L = milligrams per liter

¹ Target MDL from Table F.2 of QAPP
4.4 Timeliness

All samples submitted for sulfate analysis were analyzed within the twenty-eight day holding time specified by EPA Method 300.0.

4.5 Quality Control Measurements

The following QC samples were prepared and analyzed:

- Calibration blanks and calibration verification standards
- Analytical spike 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 no detections of the target analyte. 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 QA Plan and the QAPP.

4.5.2 Analytical Spike

Analytical spike samples were analyzed for the EPA Method 300.0. The spike samples were prepared by adding a sulfate spike to randomly chosen samples. Instances in which analytical spike recoveries were unusable were qualified with an “M3” flag indicating that the analyte concentration was disproportionate to the spike level or an “M1” flag indicating that the spike level was too high. In each case where an M1 or M3 qualifier was used the laboratory control sample recovery was acceptable and no corrective action was required. 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 quality data verification report. Field duplicate samples are discussed in Section 5.1. 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 laboratory. The results met QA criteria and demonstrate an appropriate level of precision in laboratory analysis of these samples.

4.5.4 Sample Re-Analysis

No samples required re-analysis for the second quarter 2013.

4.5.5 Blank Samples

During the second quarter 2013, 6 blank samples were collected, including three field blanks (FB20130410, FB20130417, and FB20130614) and three field equipment blanks (EQB20130410, EQB20130417, and EQB20130614). None of the blank samples collected in the second quarter 2013 had sulfate concentrations above the reporting limit of 0.30 mg/L. The results demonstrate that the sulfate concentrations reported in the second quarter 2013 were not affected by sample collection and sample handling procedures. 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. As required by Section 4.2.1.5 of the QAPP, a minimum of one field blank and one equipment blank sample was collected for every twenty samples.
5. DATA QUALITY INDICATORS

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

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

Each of these DQIs is discussed below in relation to the first quarter 2013 groundwater sampling and analysis conducted by Clear Creek and CQB.

5.1 Precision

Precision indicates how well a measurement can be reproduced. Precision is quantified by calculating the RPD between 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 3 field filtered duplicate samples (DUP21030408, DUP20130416, and DUP20130614) were collected by Clear Creek and CQB for analysis. The collection of 3 duplicate samples meets the QA/QC method and quantity goal stated in Section 4.2.1.5 of the QAPP.

Sulfate results for the 3 duplicate samples collected are provided in the table below. The range of RPD values was between 0.00 and 2.67 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.

<table>
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<tr>
<th>SVL Project No.</th>
<th>Well ID</th>
<th>Duplicate ID</th>
<th>Sample (mg/l)</th>
<th>Duplicate (mg/l)</th>
<th>RPD</th>
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<td>DUP20130416</td>
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<td>10.2</td>
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<td>W3D0285</td>
<td>Eppele 641</td>
<td>DUP20130408</td>
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<td>17.4</td>
<td>0.57%</td>
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<td>W3F0397</td>
<td>BOOTH</td>
<td>DUP20130604</td>
<td>95.0</td>
<td>92.5</td>
<td>2.67%</td>
</tr>
</tbody>
</table>

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

For the QA/QC of water level monitoring, precision 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, so the DQI for precision is met.

5.2 Bias

Bias is a systematic distortion of measurements causing consistent errors in one direction. Bias is managed in this data set by the consistent application of standardized sample collection and analysis procedures. As discussed in Section 4.5.5, none of the blank samples had measurable concentrations of sulfate indicating that the sampling collection and analysis procedures did not contribute sulfate to the results.

5.3 Accuracy

Accuracy is a measure of the agreement of a measurement to a known value and is measured using the recoveries from laboratory control samples. As discussed in Sections 4.5.1, 4.5.2, and 4.5.3 there were no significant exceedances of the recovery QA criteria for any of the calibration standards, analytical spikes, or laboratory duplicates, respectively. As discussed in Section 4.5.5, none of the blank samples had measurable concentrations of sulfate indicating that the sampling collection and analysis procedures did not contribute sulfate to the results. Water level measurements for the second quarter 2013 were compared to previous quarters to ensure that the measurements were within the expected ranges. Based on this information, the overall accuracy of the data is judged sufficient for the purpose of aquifer characterization.
5.4 Representativeness

All samples and water level measurements were taken from locations specified in the revised groundwater monitoring program (ADEQ, 2010) following sampling procedures specified in the QAPP. Therefore, they provide a good representation of groundwater quality at the sampled locations. The sampling procedures are representative of groundwater quality at the sampled locations because no sulfate was detected in the field or equipment blanks. The analytical data are representative of groundwater conditions because the analyses used standard procedures and methods that met QA/QC guidelines of the QAPP.

5.5 Comparability

All samples were collected using standardized procedures (HGC, 2008) and were analyzed by SVL 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 satisfy the QA/QC criteria for this project. The completeness of analytical results is 100 percent, which exceeds the minimum 90 percent completeness in Section 3.3.6 of the QAPP.

5.7 Sensitivity

The analytical method used to analyze the samples meets the MDL requirements specified in Table F.2 of the QAPP. The water level sounder 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.
6. REFERENCES


APPENDIX C

ANALYTICAL REPORTS
### ANALYTICAL REPORT FOR SAMPLES

<table>
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<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
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<th>Sampled By</th>
<th>Date Received</th>
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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 supersedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section. The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
Client Sample ID: **HOWARD 312**  
SVL Sample ID: **W3D0285-01 (Ground Water)**  

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

**Kirby Gray**  
Technical Director

---

SVL holds the following certifications:  
**Sample Report Page 1 of 1**

**Client Sample ID:** HOWARD NR  
**SVL Sample ID:** W3D0285-02 (Ground Water)  
**Sampled:** 09-Apr-13 10:23  
**Received:** 12-Apr-13  
**Sampled By:** VH  
**Work Order:** W3D0285  
**Reported:** 26-Apr-13 13:29  
**Work Order Report Page 3 of 23**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W3D0285
Reported: 26-Apr-13 13:29

Client Sample ID: **EPPELE 641**
SVL Sample ID: **W3D0285-03 (Ground Water)**
Sampled: 08-Apr-13 13:20
Received: 12-Apr-13
Sampled By: VH

### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Kirby Gray
Technical Director
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
### Sample Report Page 1 of 1

**Client Sample ID:** PALMER  
**SVL Sample ID:** W3D0285-05 (Ground Water)  
**Sample Report Page 1 of 1**  

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Kirby Gray  
Technical Director

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SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

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Kirby Gray  
Technical Director

SVL holds the following certifications:

### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

**Signatures**

Kirby Gray  
Technical Director
### Client Sample ID: DUP20130408
### SVL Sample ID: W3D0285-08 (Ground Water)
### Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
Client Sample ID: **EAST**  
SVL Sample ID: **W3D0285-09 (Ground Water)**  
Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director

SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

-Kirby Gray
Technical Director
<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray
Technical Director
### Project Name: Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W3D0285  
**Reported:** 26-Apr-13 13:29

---

#### Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

![Signature](signature.png)

**Kirby Gray**  
Technical Director

---

*SVL holds the following certifications:*

**Project Name:** Copper Queen Branch Sulfate Mitigation Order  
**Work Order:** W3D0285  
**Reported:** 26-Apr-13 13:29  

**Freeport McMoRan - Bisbee**  
36 West Hwy 92  
Bisbee, AZ 85603  

---

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<th>COOPER</th>
<th>SVL Sample ID:</th>
<th>W3D0285-13 (Ground Water)</th>
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**This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.**

Kirby Gray  
Technical Director

---

SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

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<th>Method</th>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
**Freeport McMoRan - Bisbee**  
36 West Hwy 92  
Bisbee, AZ 85603

**Project Name:** Copper Queen Branch Sulfate Mitigation Order  
**Work Order:** W3D0285  
**Reported:** 26-Apr-13 13:29

---

**Client Sample ID:** WEED  
**SVL Sample ID:** W3D0285-16 (Ground Water)  
**Sample Report Page 1 of 1**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director

---

SVL holds the following certifications:  
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray
Technical Director

SVL holds the following certifications:
**Client Sample ID:** FRANCO 383  
**SVL Sample ID:** W3D0285-18 (Ground Water)  
**Sample Report Page 1 of 1**

<table>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
**Client Sample ID:** TVI 875  
**SVL Sample ID:** W3D0285-19 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

**Kirby Gray**  
Technical Director

---

SVL holds the following certifications:  
### Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

---

Kirby Gray  
Technical Director
### Quality Control - BLANK Data

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<td><strong>Dissolved Anions by Ion Chromatography</strong></td>
<td>Sulfate as SO₄</td>
<td>mg/L</td>
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### Quality Control - MATRIX SPIKE Data

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<th>Spike Result</th>
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<td>Sulfate as SO₄</td>
<td>mg/L</td>
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### Quality Control - MATRIX SPIKE DUPLICATE Data

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SVL holds the following certifications:
Notes and Definitions

D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
M1 Matrix spike recovery was high, but the LCS recovery was acceptable.
M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
R > 4S % recovery not applicable, sample concentration more than four times greater than spike level
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable
## ANALYTICAL REPORT FOR SAMPLES

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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 supersedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
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<tr>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director
### Dissolved Anions by Ion Chromatography

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<th>Method</th>
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<th>MDL</th>
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Kirby Gray  
Technical Director
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W3D0286
Reported: 26-Apr-13 12:45

Client Sample ID: AWC-05
SVL Sample ID: W3D0286-03 (Ground Water)

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<tbody>
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Kirby Gray  
Technical Director

SVL holds the following certifications:
### Dissolved Anions by Ion Chromatography

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<th>Units</th>
<th>RL</th>
<th>MDL</th>
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<th>Batch</th>
<th>Analyst</th>
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<tbody>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray  
Technical Director

SVL holds the following certifications:  
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W3D0286
Reported: 26-Apr-13 12:45

Client Sample ID: RUIZ
SVL Sample ID: W3D0286-05 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kirby Gray
Technical Director

SVL holds the following certifications:
### Quality Control - BLANK Data

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### Quality Control - LABORATORY CONTROL SAMPLE Data

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### Quality Control - MATRIX SPIKE Data

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### Quality Control - MATRIX SPIKE DUPLICATE Data

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### Notes and Definitions

- **D2**: Sample required dilution due to high concentration of target analyte.
- **M3**: The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
- **LCS**: Laboratory Control Sample (Blank Spike)
- **RPD**: Relative Percent Difference
- **UDL**: A result is less than the detection limit
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable

---

SVL holds the following certifications:

### ANALYTICAL REPORT FOR SAMPLES

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<th>Date Received</th>
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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. The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
### Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

**Project Name:** Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W3D0429

**Reported:** 03-May-13 08:53

---

**Client Sample ID:** NWC-04

**SVL Sample ID:** W3D0429-01 (Ground Water)

**Sampled:** 17-Apr-13 08:35

**Received:** 19-Apr-13

**Sampled By:** VH

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

---

SVL holds the following certifications:

### Sample Report Page 1 of 1

**Dissolved Anions by Ion Chromatography**

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John Kern  
Laboratory Director
**Freeport McMoRan - Bisbee**  
36 West Hwy 92  
Bisbee, AZ 85603

**Project Name:** Copper Queen Branch Sulfate Mitigation Order  
**Work Order:** W3D0429  
**Reported:** 03-May-13 08:53

**Client Sample ID:** **NWC-02**  
**SVL Sample ID:** **W3D0429-03 (Ground Water)**  
**Sample Report Page 1 of 1**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

![John Kern Signature]

John Kern  
Laboratory Director

---

**SVL holds the following certifications:**  
### Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

[Signature]

John Kern
Laboratory Director
### Project Name: Copper Queen Branch Sulfate Mitigation Order

| Work Order: | W3D0429 |
| Reported:   | 03-May-13 08:53 |

#### Client Sample ID: **TM-10**

#### SVL Sample ID: **W3D0429-05 (Ground Water)**

#### Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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John Kern  
Laboratory Director
Client Sample ID: **PIONKE 517**
SVL Sample ID: **W3D0429-06 (Ground Water)**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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John Kern  
Laboratory Director
### Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

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SVL holds the following certifications:  

Work order Report Page 8 of 24
### Dissolved Anions by Ion Chromatography

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John Kern  
Laboratory Director

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SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
Client Sample ID: **WEISKOPF 897**  
SVL Sample ID: **W3D0429-10 (Ground Water)**  
Sample Report Page 1 of 1  

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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**John Kern**  
Laboratory Director

SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Signed:

John Kern  
Laboratory Director
### Project Name: Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W3D0429  
**Reported:** 03-May-13 08:53

---

**Freeport McMoRan - Bisbee**  
36 West Hwy 92  
Bisbee, AZ 85603

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<table>
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<th>Analyzed</th>
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<tr>
<td>EPA 300.0</td>
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<td>16:52</td>
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</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order

Work Order: W3D0429

Reported: 03-May-13 08:53

---

Client Sample ID: PARRA
SVL Sample ID: W3D0429-14 (Ground Water)

Sampled: 11-Apr-13 16:54
Received: 19-Apr-13
Sampled By: VH

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

---

SVL holds the following certifications:
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:
SVL holds the following certifications:

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
**Client Sample ID:** ROGERS 803  
**SVL Sample ID:** W3D0429-17 (Ground Water)

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
**Dissolved Anions by Ion Chromatography**

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Project Name: Copper Queen Branch Sulfate Mitigation Order

- **Work Order:** W3D0429
- **Reported:** 03-May-13 08:53

### Client Sample ID: DUP20130416

### SVL Sample ID: W3D0429-20 (Ground Water)

### Sample Report Page 1 of 1

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

[Signature]

John Kern
Laboratory Director

---

SVL holds the following certifications:
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

Project Name: Copper Queen Branch Sulfate Mitigation Order
Work Order: W3D0429
Reported: 03-May-13 08:53

Client Sample ID: ZANDER
SVL Sample ID: W3D0429-21 (Ground Water)
Sampled: 18-Apr-13 13:49
Received: 19-Apr-13
Sampled By: VH

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

SVL holds the following certifications:
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### Quality Control - LABORATORY CONTROL SAMPLE Data

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<td>mg/L</td>
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<td>90 - 110</td>
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<td>mg/L</td>
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### Quality Control - MATRIX SPIKE Data

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<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
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<td>D2,M3</td>
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</tbody>
</table>

SVL holds the following certifications:
Notes and Definitions

D2  Sample required dilution due to high concentration of target analyte.

M3  The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.

LCS  Laboratory Control Sample (Blank Spike)

RPD  Relative Percent Difference

UDL  A result is less than the detection limit

R > 4S  % recovery not applicable, sample concentration more than four times greater than spike level

<RL  A result is less than the reporting limit

MRL  Method Reporting Limit

MDL  Method Detection Limit

N/A  Not Applicable

SVL holds the following certifications:

Work order Report Page 24 of 24
## ANALYTICAL REPORT FOR SAMPLES

<table>
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<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
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<th>Date Sampled</th>
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<th>Date Received</th>
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<td>Ground Water</td>
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<td>RAMIREZ</td>
<td>W3D0464-02</td>
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<td>19-Apr-13 11:30</td>
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<tr>
<td>MOORE</td>
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<td>Ground Water</td>
<td>19-Apr-13 09:55</td>
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</table>

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.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
### Dissolved Anions by Ion Chromatography

<table>
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<tr>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

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<th>Method</th>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
**Client Sample ID:** MOORE  
**SVL Sample ID:** W3D0464-03 (Ground Water)  
**Sample Report Page 1 of 1**  
**Work Order:** W3D0464  
**Sampled:** 19-Apr-13 09:55  
**Received:** 23-Apr-13  
**Sampled By:** VH  
**Sampled:** 19-Apr-13 09:55  
**Received:** 23-Apr-13  
**Sampled By:** VH

## Dissolved Anions by Ion Chromatography

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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
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### Quality Control - LABORATORY CONTROL SAMPLE Data

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### Quality Control - MATRIX SPIKE Data

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<th>Sample Result (R)</th>
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### Quality Control - MATRIX SPIKE DUPLICATE Data

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<td>1.0</td>
<td>20</td>
<td>W318272</td>
</tr>
</tbody>
</table>

### 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
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable

---

SVL holds the following certifications:

## ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
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<tbody>
<tr>
<td>SCHWARTZ</td>
<td>W3E0386-01</td>
<td>Ground Water</td>
<td>14-May-13 16:05</td>
<td>VH</td>
<td>16-May-2013</td>
</tr>
<tr>
<td>ECHAVE</td>
<td>W3E0386-02</td>
<td>Ground Water</td>
<td>14-May-13 13:50</td>
<td>VH</td>
<td>16-May-2013</td>
</tr>
<tr>
<td>NWC-04</td>
<td>W3E0386-03</td>
<td>Ground Water</td>
<td>14-May-13 08:45</td>
<td>VH</td>
<td>16-May-2013</td>
</tr>
</tbody>
</table>

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. The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
### Dissolved Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO₄</td>
<td>112</td>
<td>mg/L</td>
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<td>0.66</td>
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<td>W322218</td>
<td>AEW</td>
<td>05/30/13 22:59</td>
<td>D2</td>
</tr>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Sample Report Page 1 of 1

**Method:** Dissolved Anions by Ion Chromatography  
**SVL Sample ID:** W3E0386-02 (Ground Water)  
**Client Sample ID:** ECHAVE  
**Report Date:** 14-May-13 13:50  
**Sampled By:** VH  
**Received:** 16-May-13  
**Sampled:** 14-May-13 13:50  
**Reported:** 31-May-13 15:23  

#### Dissolved Anions (mg/L)

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<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
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<th>Analyst</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>25.2</td>
<td>mg/L</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Client Sample ID: **NWC-04**  
SVL Sample ID: **W3E0386-03 (Ground Water)**

<table>
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<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td><strong>Sulfate as SO4</strong></td>
<td>214</td>
<td>mg/L</td>
<td>3.00</td>
<td>0.66</td>
<td>10</td>
<td>W322218</td>
<td>AEW</td>
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</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Quality Control - BLANK Data

<table>
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<th>Method</th>
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<th>Units</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td></td>
<td></td>
<td>&lt;0.30</td>
<td>0.07</td>
<td>0.30</td>
<td>W322218</td>
<td>30-May-13</td>
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### Quality Control - LABORATORY CONTROL SAMPLE Data

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<tr>
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<th>Analyte</th>
<th>Units</th>
<th>LCS Result</th>
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<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
<td>10.1</td>
<td>10.0</td>
<td>101</td>
<td>90 - 110</td>
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<td>30-May-13</td>
<td></td>
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### Quality Control - MATRIX SPIKE Data

<table>
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<tr>
<th>Method</th>
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<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td></td>
<td></td>
<td>45.5</td>
<td>32.7</td>
<td>10.0</td>
<td>109</td>
<td>90 - 110</td>
<td>W322218</td>
<td>30-May-13</td>
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</tbody>
</table>

### Quality Control - MATRIX SPIKE DUPLICATE Data

<table>
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<th>Method</th>
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<th>Units</th>
<th>MSD Result</th>
<th>Spike Result</th>
<th>Spike Level</th>
<th>RPD</th>
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<th>Batch ID</th>
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<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
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<td></td>
<td>545</td>
<td>551</td>
<td>10.0</td>
<td>1.1</td>
<td>20</td>
<td>W322218</td>
<td>30-May-13</td>
<td>D2,M3</td>
</tr>
</tbody>
</table>

## Notes and Definitions

- **D2**: Sample required dilution due to high concentration of target analyte.
- **M3**: The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
- **LCS**: Laboratory Control Sample (Blank Spike)
- **RPD**: Relative Percent Difference
- **UDL**: A result is less than the detection limit
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable

---

SVL holds the following certifications:

**Project Name:** Copper Queen Branch Sulfate Mitigation Order  
*Work Order:* W3E0392  
*Reported:* 31-May-13 15:26

---

### ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
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</thead>
<tbody>
<tr>
<td>BMO-2012-1M</td>
<td>W3E0392-01</td>
<td>Ground Water</td>
<td>08-May-13 08:20</td>
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<td>16-May-2013</td>
</tr>
<tr>
<td>HOBAN</td>
<td>W3E0392-02</td>
<td>Ground Water</td>
<td>08-May-13 09:10</td>
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<td>16-May-2013</td>
</tr>
<tr>
<td>BMO-2010-1M</td>
<td>W3E0392-03</td>
<td>Ground Water</td>
<td>08-May-13 10:40</td>
<td>CLS</td>
<td>16-May-2013</td>
</tr>
<tr>
<td>COOPER C</td>
<td>W3E0392-04</td>
<td>Ground Water</td>
<td>08-May-13 12:35</td>
<td>CLS</td>
<td>16-May-2013</td>
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<tr>
<td>BMO-2010-2M</td>
<td>W3E0392-05</td>
<td>Ground Water</td>
<td>08-May-13 13:40</td>
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</tr>
<tr>
<td>BMO-2008-6M</td>
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<td>16-May-2013</td>
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<td>BMO-2008-5M</td>
<td>W3E0392-08</td>
<td>Ground Water</td>
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<td>16-May-2013</td>
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<tr>
<td>BMO-2008-5B</td>
<td>W3E0392-09</td>
<td>Ground Water</td>
<td>15-May-13 11:35</td>
<td>CLS</td>
<td>16-May-2013</td>
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</tbody>
</table>

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### Dissolved Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Sampled</th>
<th>Sampled By</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>197</td>
<td>mg/L</td>
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<td>0.66</td>
<td>10</td>
<td>W322218</td>
<td>AEW</td>
<td>D2</td>
</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

SVL holds the following certifications:
Client Sample ID: **HOBAN**  
SVL Sample ID: **W3E0392-02 (Ground Water)**

<table>
<thead>
<tr>
<th>Method</th>
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<th>MDL</th>
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<th>Analyzed</th>
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<tr>
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<td>mg/L</td>
<td>15.0</td>
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<td>W322218</td>
<td>AEW</td>
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<td>D2</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Dissolved Anions by Ion Chromatography

<table>
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<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
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<tbody>
<tr>
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<td>mg/L</td>
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<td>05/31/13 00:11</td>
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</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
### Dissolved Anions by Ion Chromatography

<table>
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<tr>
<th>Method</th>
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<th>Result</th>
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<th>Batch</th>
<th>Analyst</th>
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<tr>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Dissolved Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
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</tbody>
</table>

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John Kern  
Laboratory Director

SVL holds the following certifications:  
Freeport McMoRan - Bisbee
36 West Hwy 92
Bisbee, AZ 85603

### Project Name: Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W3E0392  
**Reported:** 31-May-13 15:26

---

**Client Sample ID:** BMO-2008-6M

**SVL Sample ID:** W3E0392-06 (Ground Water)

**Sample Received:** 16-May-13

**Sampled By:** CLS

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<table>
<thead>
<tr>
<th>Method</th>
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<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

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SVL holds the following certifications:

### Dissolved Anions by Ion Chromatography

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<th>Method</th>
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<th>Result</th>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Dissolved Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
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<tbody>
<tr>
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<td>Sulfate as SO4</td>
<td>135</td>
<td>mg/L</td>
<td>3.00</td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
Dissolved Anions by Ion Chromatography

<table>
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<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Notes</th>
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</thead>
<tbody>
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<td>Sulfate as SO4</td>
<td>220</td>
<td>mg/L</td>
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<td>10</td>
<td>W322218</td>
<td>AEW</td>
<td>D2</td>
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</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director
### Quality Control - BLANK Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>&lt;0.30</td>
<td>0.07</td>
<td>0.30</td>
<td>W322218</td>
<td>30-May-13</td>
<td></td>
</tr>
</tbody>
</table>

### Quality Control - LABORATORY CONTROL SAMPLE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>LCS Result</th>
<th>LCS True</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>10.1</td>
<td>10.0</td>
<td>101</td>
<td>90 - 110</td>
<td>W322218</td>
<td>30-May-13</td>
<td></td>
</tr>
</tbody>
</table>

### Quality Control - MATRIX SPIKE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>45.5</td>
<td>32.7</td>
<td>10.0</td>
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<td>90 - 110</td>
<td>W322218</td>
<td>30-May-13</td>
<td>D2,M3</td>
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<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>551</td>
<td>553</td>
<td>10.0</td>
<td>R &gt; 4S</td>
<td>90 - 110</td>
<td>W322218</td>
<td>31-May-13</td>
<td></td>
</tr>
</tbody>
</table>

### Quality Control - MATRIX SPIKE DUPLICATE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>MSD Result</th>
<th>Spike Result</th>
<th>Spike Level</th>
<th>RPD Limit</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>545</td>
<td>551</td>
<td>10.0</td>
<td>20</td>
<td>W322218</td>
<td>30-May-13</td>
<td>D2,M3</td>
</tr>
</tbody>
</table>

### Notes and Definitions

- **D2**: Sample required dilution due to high concentration of target analyte.
- **M3**: The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
- **LCS**: Laboratory Control Sample (Blank Spike)
- **RPD**: Relative Percent Difference
- **UDL**: A result is less than the detection limit
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable
ANALYTICAL REPORT FOR SAMPLES

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWC 04</td>
<td>W3F0213-01</td>
<td>Water</td>
<td>05-Jun-13 08:35</td>
<td>BD</td>
<td>11-Jun-2013</td>
</tr>
</tbody>
</table>

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. 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. The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
### Dissolved Anions by Ion Chromatography

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte (as SO4)</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA 300.0</td>
<td>Sulfate</td>
<td>201</td>
<td>mg/L</td>
<td>3.00</td>
<td>0.66</td>
<td>10</td>
<td>W324167</td>
<td>AEW</td>
<td>06/11/13 22:03</td>
<td>D2</td>
</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:


**Quality Control - BLANK Data**

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>&lt;0.30</td>
<td>0.07</td>
<td>0.30</td>
<td>W324167</td>
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**Quality Control - LABORATORY CONTROL SAMPLE Data**

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<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>LCS Result</th>
<th>LCS True</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>9.92</td>
<td>10.0</td>
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<td>90 - 110</td>
<td>W324167</td>
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**Quality Control - MATRIX SPIKE Data**

<table>
<thead>
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<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
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<td>Sulfate as SO4</td>
<td>mg/L</td>
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<td>10.0</td>
<td>108</td>
<td>90 - 110</td>
<td>W324167</td>
<td>11-Jun-13</td>
<td></td>
</tr>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>36.0</td>
<td>24.9</td>
<td>10.0</td>
<td>111</td>
<td>90 - 110</td>
<td>W324167</td>
<td>11-Jun-13</td>
<td>M1</td>
</tr>
</tbody>
</table>

**Quality Control - MATRIX SPIKE DUPLICATE Data**

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<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>MSD Result</th>
<th>Spike Result</th>
<th>Spike Level</th>
<th>RPD Limit</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>36.3</td>
<td>36.1</td>
<td>10.0</td>
<td>0.4</td>
<td>20</td>
<td>W324167</td>
<td>11-Jun-13</td>
</tr>
</tbody>
</table>

**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
- **R > 4S**  % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**  A result is less than the reporting limit
- **MRL**  Method Reporting Limit
- **MDL**  Method Detection Limit
- **N/A**  Not Applicable

SVL holds the following certifications:

**AZ:** 0538, **CA:** 2080, **FL (NELAC):** E87993, **ID:** ID00019 & ID00965 (Microbiology), **NV:** ID000192007A, **WA:** C573
Analytical Report for Samples

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUP20130604 W3F0397-02</td>
<td>Ground Water</td>
<td>14-Jun-13 13:00</td>
<td>BD</td>
<td>18-Jun-2013</td>
<td></td>
</tr>
</tbody>
</table>

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. The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
Client Sample ID: **BOOTH**  
SVL Sample ID: **W3F0397-01 (Ground Water)**  
Sampled: 14-Jun-13 12:40  
Received: 18-Jun-13  
Sampled By: **BD**  

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>95.0</td>
<td>mg/L</td>
<td>3.00</td>
<td>0.66</td>
<td>10</td>
<td>W325139</td>
<td>AEW</td>
<td>06/18/13 21:24</td>
<td>D2</td>
</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
Client Sample ID: **DUP20130604**  
SVL Sample ID: **W3F0397-02 (Ground Water)**

<table>
<thead>
<tr>
<th>Method</th>
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<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyst</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>92.5</td>
<td>mg/L</td>
<td>3.00</td>
<td>0.66</td>
<td>10</td>
<td>W325139</td>
<td>AEW</td>
<td>06/18/13 21:35</td>
<td>D2</td>
</tr>
</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

[Signature]

**John Kern**  
Laboratory Director
Quality Control - BLANK Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>&lt;0.30</td>
<td>0.07</td>
<td>0.30</td>
<td>W325139</td>
<td>18-Jun-13</td>
<td></td>
</tr>
</tbody>
</table>

Quality Control - LABORATORY CONTROL SAMPLE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>LCS Result</th>
<th>LCS True</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>10.5</td>
<td>10.0</td>
<td>105</td>
<td>90 - 110</td>
<td>W325139</td>
<td>18-Jun-13</td>
<td></td>
</tr>
</tbody>
</table>

Quality Control - MATRIX SPIKE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>11.9</td>
<td>0.58</td>
<td>10.0</td>
<td>113</td>
<td>90 - 110</td>
<td>W325139</td>
<td>18-Jun-13</td>
<td>M1</td>
</tr>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>109</td>
<td>100</td>
<td>10.0</td>
<td>91.8</td>
<td>90 - 110</td>
<td>W325139</td>
<td>18-Jun-13</td>
<td>D2,M3</td>
</tr>
</tbody>
</table>

Quality Control - MATRIX SPIKE DUPLICATE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>MSD Result</th>
<th>Spike Result</th>
<th>Spike Level</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dissolved Anions by Ion Chromatography</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>12.2</td>
<td>11.9</td>
<td>10.0</td>
<td>2.5</td>
<td>20</td>
<td>W325139</td>
<td>18-Jun-13</td>
<td>M1</td>
</tr>
</tbody>
</table>

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.
M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
LCS Laboratory Control Sample (Blank Spike)
RPD Relative Percent Difference
UDL A result is less than the detection limit
R > 4S % recovery not applicable, sample concentration more than four times greater than spike level
<RL A result is less than the reporting limit
MRL Method Reporting Limit
MDL Method Detection Limit
N/A Not Applicable

SVL holds the following certifications:
### Analytical Report for Samples

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Sampled</th>
<th>Sampled By</th>
<th>Date Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB20130614</td>
<td>W3F0493-01</td>
<td>Ground Water</td>
<td>14-Jun-13 13:00</td>
<td>BD</td>
<td>20-Jun-2013</td>
</tr>
<tr>
<td>EQB20130614</td>
<td>W3F0493-02</td>
<td>Ground Water</td>
<td>14-Jun-13 13:00</td>
<td>BD</td>
<td>20-Jun-2013</td>
</tr>
</tbody>
</table>

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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.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.
### Project Name: Copper Queen Branch Sulfate Mitigation Order

**Work Order:** W3F0493  
**Reported:** 21-Jun-13 15:10

Client Sample ID: **FB20130614**  
SVL Sample ID: **W3F0493-01 (Ground Water)**  
**Sample Report Page 1 of 1**

<table>
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<tr>
<th>Method</th>
<th>Analyte</th>
<th>Result</th>
<th>Units</th>
<th>RL</th>
<th>MDL</th>
<th>Dilution</th>
<th>Batch</th>
<th>Analyst</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anions by Ion Chromatography</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>$&lt; 0.30$</td>
<td>mg/L</td>
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<td>W325287</td>
<td>AEW</td>
<td>06/20/13 13:05</td>
<td></td>
<td></td>
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</tbody>
</table>

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director

---

SVL holds the following certifications:  
**Client Sample ID:** EQB20130614  
**SVL Sample ID:** W3F0493-02 (Ground Water)  
**Sample Report Page 1 of 1**

<table>
<thead>
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<th>Method</th>
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<th>MDL</th>
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<tbody>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>&lt; 0.30</td>
<td>mg/L</td>
<td>0.30</td>
<td>0.07</td>
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<td>AEW</td>
<td>06/20/13 13:15</td>
<td></td>
<td></td>
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This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern  
Laboratory Director
### Quality Control - BLANK Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Result</th>
<th>MDL</th>
<th>MRL</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
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<td></td>
</tr>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>&lt;0.30</td>
<td>0.07</td>
<td>0.30</td>
<td>W325287</td>
<td>20-Jun-13</td>
<td></td>
</tr>
</tbody>
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### Quality Control - LABORATORY CONTROL SAMPLE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>LCS Result</th>
<th>LCS True</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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</thead>
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<tr>
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<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>10.0</td>
<td>10.0</td>
<td>100</td>
<td>90 - 110</td>
<td>W325287</td>
<td>20-Jun-13</td>
<td></td>
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### Quality Control - MATRIX SPIKE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>Spike Result</th>
<th>Sample Result (R)</th>
<th>Spike Level (S)</th>
<th>% Rec.</th>
<th>Acceptance Limits</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>24.6</td>
<td>13.7</td>
<td>10.0</td>
<td>109</td>
<td>90 - 110</td>
<td>W325287</td>
<td>20-Jun-13</td>
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### Quality Control - MATRIX SPIKE DUPLICATE Data

<table>
<thead>
<tr>
<th>Method</th>
<th>Analyte</th>
<th>Units</th>
<th>MSD Result</th>
<th>Spike Result</th>
<th>Spike Level</th>
<th>RPD</th>
<th>RPD Limit</th>
<th>Batch ID</th>
<th>Analyzed</th>
<th>Notes</th>
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</tr>
<tr>
<td>EPA 300.0</td>
<td>Sulfate as SO4</td>
<td>mg/L</td>
<td>24.7</td>
<td>24.6</td>
<td>10.0</td>
<td>0.4</td>
<td>20</td>
<td>W325287</td>
<td>20-Jun-13</td>
<td></td>
</tr>
</tbody>
</table>

### Notes and Definitions

- **LCS**: Laboratory Control Sample (Blank Spike)
- **RPD**: Relative Percent Difference
- **UDL**: A result is less than the detection limit
- **R > 4S**: % recovery not applicable, sample concentration more than four times greater than spike level
- **<RL**: A result is less than the reporting limit
- **MRL**: Method Reporting Limit
- **MDL**: Method Detection Limit
- **N/A**: Not Applicable

---

SVL holds the following certifications:

APPENDIX D

GROUNDWATER SAMPLING FORMS
## Groundwater Sampling Form

**Project No:** 055038  
**Task No:** 1  
**Well ID:** Anderson 396  
**ADWR No:**  

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

- **Well Depth (ft bgs):**  
- **Casing Diameter (in):**  
- **Static Water Level (ft bmg):** 152.08  
- **Casing Volume (gal):** $x3 =$

**Total Volume Purged (gal):**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
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<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### 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:** Pipe between well & tank broken, unable to sample.
**Groundwater Sampling Form**

**Project No:** 055038

**Task No:** 1

**Well ID:** Anderson 458

**ADWR No:**

**Client:** Freeport Copper Queen Branch

**Date:** 4/15/13

**Weather:** Sunny, windy

**Sampler:** UN

---

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgl)</th>
<th>734</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgl)</td>
<td>158.4</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>$58.7 \times 3 = 176.1$</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:32</td>
<td>Pump On 20</td>
<td>7</td>
<td>140</td>
<td>8.03</td>
<td>23.2</td>
<td>407.5</td>
<td></td>
</tr>
<tr>
<td>08:52</td>
<td>40</td>
<td>7</td>
<td>280</td>
<td>8.08</td>
<td>22.7</td>
<td>406.4</td>
<td></td>
</tr>
<tr>
<td>09:32</td>
<td>60</td>
<td>7</td>
<td>420</td>
<td>8.18</td>
<td>23.3</td>
<td>405.4</td>
<td></td>
</tr>
<tr>
<td>09:52</td>
<td>80</td>
<td>7</td>
<td>540</td>
<td>8.19</td>
<td>23.5</td>
<td>402.7</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anderson 458</td>
<td>09:59</td>
<td>Poly</td>
<td>250 ml</td>
<td>2</td>
<td>S300.0</td>
<td>N/A</td>
<td>Y</td>
</tr>
<tr>
<td>Anderson 458</td>
<td>1005</td>
<td>Plastic</td>
<td>15 ml</td>
<td>1</td>
<td>S28-4374</td>
<td>N/A</td>
<td>N</td>
</tr>
</tbody>
</table>

### 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: Purge 1 well vol 847, parameters stabilize

**Additional Comments:**

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N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring Form\Groundwater Sampling Sheet
**Groundwater Sampling Form**

**Project No:** 055038  
**Task No:** 1  
**Well ID:** AWC-02  
**ADWR No.:** 401558.6  
**Client:** Freeport Copper Queen Branch  
**Date:** 4/11/13  
**Weather:** Sunny, 60's  
**Sampler:** VNH

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.06</td>
</tr>
</tbody>
</table>

- **Well Depth (ft. bgs):**
- **Casing Diameter (in):**
- **Static Water Level (ft. bgs):** 127.44', 123.99
- **Casing Volume (gal):** x3 =
- **Total Volume Purged (gal):**

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0953</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1153</td>
<td>12.0</td>
<td>12.0</td>
<td>14,400</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1205</td>
<td>13.2</td>
<td>12.0</td>
<td>15,640</td>
<td>7.53</td>
<td>22.1</td>
<td>471.3</td>
<td></td>
</tr>
</tbody>
</table>

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

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWC-02</td>
<td>1215</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

**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 min 30min per AWC protocol

**Additional Comments:**
Groundwater Sampling Form

Project No: 055038
Task No:
Well ID: AWC - 03
ADWR No: 1016586

Client: Freeport Copper Queen Branch
Date: 4/4/13
Weather: Sunny, 50’s
Sampler: VNH

WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl):</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>Static Water Level (ft bsl): 125' bsl (AWC)</td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25</td>
<td>17</td>
<td>6.80</td>
<td>11.5(0)</td>
<td>7.1</td>
<td>22.2</td>
<td>480.0</td>
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</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWC - 03</td>
<td>11:38</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

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 minimum 30 min per AWC protocol

Additional Comments:
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: AWC-04
ADWR No: 616584
Client: Freeport Copper Queen Branch
Date: 4/4/13
Weather: Sunny, 60's
Sampler: JVH

| WELL DATA |
|------------------|------------------|
| 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 |

Well Depth (ft bis): 120.93' bmd (118.93' bis)
Casing Diameter (in): 4
Static Water Level (ft bmp): 120.93' bmd (118.93' bis)
Casing Volume (gal): x3 =
Total Volume Purged (gal):

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1139</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1230</td>
<td></td>
<td>7.30</td>
<td>29.930</td>
<td></td>
<td></td>
<td></td>
<td>WL=137.05' bmd</td>
</tr>
<tr>
<td>1235</td>
<td></td>
<td>7.30</td>
<td>33.580</td>
<td>7.38</td>
<td>21.7</td>
<td>595.4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
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</thead>
<tbody>
<tr>
<td>AWC-04</td>
<td>1246</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.00</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

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 minimum 30 min per AWC protocol

Additional Comments:

N:\Projects\G & K\0255038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet
Groundwater Sampling Form

Project No: 055038
Client: Freeport Copper Queen Branch
Task No:  
Date: 4/11/13
Weather: Sunny, (60's)
Well ID: AWC-05
Weather:  
Sampler:

<table>
<thead>
<tr>
<th>WELL DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Size (inches)</td>
<td>Gallons per Linear Foot</td>
</tr>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
<tr>
<td>Casing Volume = gallons/foot * water column (feet)</td>
<td></td>
</tr>
</tbody>
</table>

Total Volume Purged (gal):

<table>
<thead>
<tr>
<th>FIELD SAMPLING DATA</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>Elapsed Time (min)</td>
</tr>
<tr>
<td>0929</td>
<td>Pump On</td>
</tr>
<tr>
<td>1014</td>
<td>45</td>
</tr>
<tr>
<td>1026</td>
<td>57</td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>SAMPLE INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample ID</td>
</tr>
<tr>
<td>AWC-05</td>
</tr>
</tbody>
</table>

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 for minimum 30min per AWC protocol!

Additional Comments:
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: Banks 9860

Client: Freeport Copper Queen Branch
Date: 4/8/13
Weather: Sunny, Windy
Sampler: VNF

ADWR No:

<table>
<thead>
<tr>
<th>WELL DATA</th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Size (inches)</td>
<td>Gallons per Linear Foot</td>
</tr>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Well Depth (ft bgs): 485
Casing Diameter (in): 6
Static Water Level (ft bmg): Banks 987 = 237.92
Casing Volume (gal): 289 x 3 = 868
Total Volume Purged (gal): 450

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

FIELD/SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1903</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1523</td>
<td>20</td>
<td>10</td>
<td>200</td>
<td>7.50</td>
<td>21.9</td>
<td>914.3</td>
<td></td>
</tr>
<tr>
<td>1543</td>
<td>40</td>
<td>10</td>
<td>400</td>
<td>7.32</td>
<td>21.5</td>
<td>875.9</td>
<td></td>
</tr>
<tr>
<td>1603</td>
<td>60</td>
<td>10</td>
<td>600</td>
<td>7.81</td>
<td>21.7</td>
<td>868.1</td>
<td></td>
</tr>
<tr>
<td>1623</td>
<td>80</td>
<td>10</td>
<td>800</td>
<td>7.87</td>
<td>20.7</td>
<td>861.7</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Banks 986</td>
<td>1631</td>
<td>Poly 250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

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:

N:\Projects\88  K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet
Groundwater Sampling Form

**Project No:** 055038

**Client:** Freeport Copper Queen Branch

**Task No:** 1

**Well ID:** Banks 987

**Sampler:**

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft. bgs)</th>
<th>Casing Diameter (in)</th>
<th>Static Water Level (ft bgs)</th>
<th>Casing Volume (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>237.92`</td>
<td>x3 =</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### 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:** WLO
Groundwater Sampling Form

Project No: 055038  
Client: Freeport Copper Queen Branch

Task No: 1  
Date: 4/10/13

Well ID: Bima  
Weather: Sunny, 60's

ADWR No:  
Sampler: UNH

WELL DATA

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>x3 =</td>
<td></td>
</tr>
</tbody>
</table>

WELL DATA (Cont.)

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1151</td>
<td>Pump On</td>
<td></td>
<td></td>
<td>6.64</td>
<td>13.9</td>
<td>15609</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bima</td>
<td>1151</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300, O</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

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

WELL PURGING INFORMATION

☐ Purged 3 well volumes and field parameters stabilized.
☐ Purged 3 well volumes based on previous water level and field parameters stabilized.
☐ Purged well until field parameters stabilized.
☒ Other: No purge per owner request, well is going dry.

Additional Comments: Sample from spiget inside shed
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: BMO-2008-4B
ADWR No:
Client: Freeport Copper Queen Branch
Date: 4/15/13
Weather: Sunny, Windy
Sampler: VNH

### WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl)</td>
<td>610</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bmp)</td>
<td>136.78</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>48.3 x 3 = 144.9</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td></td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:45</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:05</td>
<td>20</td>
<td>17</td>
<td>340</td>
<td>7.79</td>
<td>23.1</td>
<td>367.9</td>
<td></td>
</tr>
<tr>
<td>14:25</td>
<td>40</td>
<td>17</td>
<td>1080</td>
<td>7.86</td>
<td>22.9</td>
<td>367.5</td>
<td></td>
</tr>
<tr>
<td>14:45</td>
<td>60</td>
<td>17</td>
<td>1020</td>
<td>7.80</td>
<td>23.0</td>
<td>366.9</td>
<td></td>
</tr>
<tr>
<td>15:05</td>
<td>80</td>
<td>17</td>
<td>1220</td>
<td>7.81</td>
<td>22.8</td>
<td>367.8</td>
<td></td>
</tr>
<tr>
<td>15:10</td>
<td>85</td>
<td>17</td>
<td>1465</td>
<td>7.75</td>
<td>23.0</td>
<td>368.2</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2008-4B</td>
<td>15:13</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>3000 μS</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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: |  |
| Task No: |  |
| Well ID: | Bm0-2008-5B |
| ADWRE No: |  |

#### WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.03</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.01</td>
</tr>
<tr>
<td>10</td>
<td>4.03</td>
</tr>
</tbody>
</table>

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

| Well Depth (ft bgs) | 285 |
| Casing Diameter (in) | 5 |
| Static Water Level (ft bgs) | 150.55 |
| Casing Volume (gals) | 137 |
| 3 Casing Volumes (gals) | 411 |

#### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SUN)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (milisiemens)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1110</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1115</td>
<td>5</td>
<td>27</td>
<td>135</td>
<td>6.44</td>
<td>23.6</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td>1125</td>
<td>15</td>
<td>27</td>
<td>405</td>
<td>7.00</td>
<td>26.9</td>
<td>422</td>
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<tr>
<td>1135</td>
<td>25</td>
<td>27</td>
<td>625</td>
<td>7.61</td>
<td>21.8</td>
<td>792</td>
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</tr>
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</table>

#### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bm0-2008-5B</td>
<td>135</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

Additional Comments: 1344
## Groundwater Sampling Form

**Project No:**

**Task No:**

**Well ID:** Bmo-2008-5-M

**ADMR No:**

**Client:** Freepport Cooper Queen Branch

**Date:** 5-15-13

**Weather:** Sunny

**Sampler:** Christopher L. Shawn

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>Casing Capacity Nominal Size (inch)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>2</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (hrs)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SI)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (ohm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:25</td>
<td>25</td>
<td>18</td>
<td>450</td>
<td>6.70</td>
<td>22.2</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>55</td>
<td>18</td>
<td>810</td>
<td>6.71</td>
<td>22.3</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>11:05</td>
<td>55</td>
<td>12</td>
<td>990</td>
<td>6.73</td>
<td>23.4</td>
<td>6.0</td>
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### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bmo-2008-5-M</td>
<td>10:5</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>Filtered</td>
</tr>
</tbody>
</table>

**Additional Comments:** 297
Groundwater Sampling Form

Project No: 
Task No: 
Well ID: BMA-2008-6B 
Sample No: 

Client: Freeport Copper Queen Branch 
Date: 5-15-13 
Weather: Sunny 
Sampler: [Signature]

WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Casing Capacity (gallons per linear foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.10</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.52</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.05</td>
</tr>
</tbody>
</table>

Well Depth (ft bgs): 265 ft
Casing Diameter (in): 5 in
Static Water Level (ft bgs): 195.9 ft
Casing Volume (gals): 

3 Casing Volumes (gals): 

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0910</td>
<td></td>
<td>5</td>
<td>25</td>
<td>6.62</td>
<td>71.6</td>
<td>294</td>
<td></td>
</tr>
<tr>
<td>0915</td>
<td></td>
<td>5</td>
<td>75</td>
<td>6.87</td>
<td>71.4</td>
<td>284</td>
<td></td>
</tr>
<tr>
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<td></td>
<td>5</td>
<td>150</td>
<td>6.86</td>
<td>21.7</td>
<td>297</td>
<td></td>
</tr>
<tr>
<td>0930</td>
<td></td>
<td>5</td>
<td>225</td>
<td>6.87</td>
<td>21.2</td>
<td>297</td>
<td></td>
</tr>
</tbody>
</table>

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMA-2008-6B</td>
<td>0955</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

Additional Comments:
# Groundwater Sampling Form

**Project No:**

**Task No:**

**Well ID:** BMO-2008-6M

**ADMS No:**

---

**WELL DATA**

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>Casing Volume (gals)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>258.1</td>
</tr>
</tbody>
</table>

**Well Depth (ft bsl):** 450

**Static Water Level (ft bsl):** 196.90

**Casing Volume (gals):** 774.3

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.19</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.52</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.81</td>
</tr>
<tr>
<td>10</td>
<td>4.03</td>
</tr>
</tbody>
</table>

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

---

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SIU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.825</td>
<td>0.825</td>
<td>71</td>
<td>210</td>
<td>1.65</td>
<td>22.3</td>
<td>727</td>
<td></td>
</tr>
<tr>
<td>0.835</td>
<td>10</td>
<td>71</td>
<td>210</td>
<td>1.65</td>
<td>22.3</td>
<td>727</td>
<td></td>
</tr>
<tr>
<td>0.845</td>
<td>20</td>
<td>21</td>
<td>420</td>
<td>7.88</td>
<td>12.0</td>
<td>925</td>
<td></td>
</tr>
<tr>
<td>0.855</td>
<td>30</td>
<td>21</td>
<td>630</td>
<td>2.04</td>
<td>21.9</td>
<td>228</td>
<td></td>
</tr>
<tr>
<td>0.905</td>
<td>40</td>
<td>21</td>
<td>840</td>
<td>3.91</td>
<td>21.9</td>
<td>228</td>
<td></td>
</tr>
</tbody>
</table>

---

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2008-6M</td>
<td>0905</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

**Additional Comments:** Calibrated Meter buffer solution 7563.02 Exp 5-2014 4 Exp-7563.0f Exp-2013

**253.1**
### Groundwater Sampling Form

**Project No:**

**Task No:**

**Well ID:** BM-2010-1m

**ADMR No:**

**Client:** Freeport Copper Queen Branch

**Date:** 5-8-13

**Weather:** Partly Cloudy

**Sampler:** Christopher L. Shaw

### WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (Inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.60</td>
</tr>
<tr>
<td>5</td>
<td>1.03</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.01</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Casing Volume (gallons):** 334

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (millis)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0:05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0:10</td>
<td>10</td>
<td>10</td>
<td></td>
<td>6.91</td>
<td>22.0</td>
<td>727</td>
<td></td>
</tr>
<tr>
<td>0:15</td>
<td>15</td>
<td>10</td>
<td></td>
<td>7.07</td>
<td>22.2</td>
<td>725</td>
<td></td>
</tr>
<tr>
<td>0:20</td>
<td>20</td>
<td>5</td>
<td></td>
<td>7.05</td>
<td>22.5</td>
<td>726</td>
<td></td>
</tr>
<tr>
<td>0:25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0:30</td>
<td>30</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0:40</td>
<td>40</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00</td>
<td>60</td>
<td>2</td>
<td></td>
<td>7.08</td>
<td>22.6</td>
<td>729</td>
<td></td>
</tr>
<tr>
<td>1:05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:10</td>
<td>70</td>
<td>2</td>
<td></td>
<td>7.12</td>
<td>22.5</td>
<td>725</td>
<td></td>
</tr>
</tbody>
</table>

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM-2010-1m</td>
<td>1040</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

**Additional Comments:** Calibration water = 7 ppm, Date: 355,340 Exp. 2014 = 4 hrs = 35.53W Exp. 06-2013 32.75
# Groundwater Sampling Form

**Project No:**

**Task No:**

**Well ID:** BMD-2010-2M

**Aquifer No:**

**Client:** Freeport Copper Queen Branch

**Date:** 5-8-13

**Weather:** Partly Cloudy

**Sampler:** Christopher L. Simmons

## WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.18</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.67</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

- **Casing Volume (gallons):** 106
- **3 Casing Volume (gallons):** 318

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (hrs)</th>
<th>Exposed Time (hrs)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310</td>
<td>10</td>
<td>27</td>
<td>220</td>
<td>6.38</td>
<td>21.1</td>
<td>3.17</td>
<td></td>
</tr>
<tr>
<td>1320</td>
<td>20</td>
<td>27</td>
<td>640</td>
<td>6.40</td>
<td>31.0</td>
<td>2.17</td>
<td></td>
</tr>
<tr>
<td>1340</td>
<td>40</td>
<td>27</td>
<td>810</td>
<td>6.44</td>
<td>21.0</td>
<td>2.68</td>
<td></td>
</tr>
</tbody>
</table>

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMD-2010</td>
<td>13:40</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 200.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

Additional Comments:
### Groundwater Sampling Form

**Project No:** 055038  
**Task No:** 1  
**Well ID:** RM0-2010-3B  
**ADWR No:**  

**Client:** Freeport Copper Queen Branch  
**Date:** 4/16/13  
**Weather:** Sunny, Windy  
**Sampler:** VMH

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>2.81</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):** 215 x 3 = 645

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0905</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0922</td>
<td>20</td>
<td>0</td>
<td>120</td>
<td>7.61</td>
<td>21.1</td>
<td>407.9</td>
<td>Slightly brown</td>
</tr>
<tr>
<td>0942</td>
<td>40</td>
<td>0</td>
<td>240</td>
<td>7.80</td>
<td>26.3</td>
<td>414.0</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>1002</td>
<td>60</td>
<td>0</td>
<td>360</td>
<td>7.65</td>
<td>21.0</td>
<td>414.1</td>
<td></td>
</tr>
<tr>
<td>1022</td>
<td>80</td>
<td>0</td>
<td>480</td>
<td>7.67</td>
<td>21.1</td>
<td>414.1</td>
<td></td>
</tr>
<tr>
<td>1042</td>
<td>100</td>
<td>0</td>
<td>600</td>
<td>7.63</td>
<td>21.4</td>
<td>414.8</td>
<td></td>
</tr>
<tr>
<td>1052</td>
<td>110</td>
<td>0</td>
<td>660</td>
<td>7.65</td>
<td>21.2</td>
<td>415.1</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM0-2010-3B</td>
<td>1050</td>
<td>Poly</td>
<td>250mL 2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

### 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:** 055038  
**Task No:** 1  
**Well ID:** BM0-2010-3M  
**Date:** 4/16/13  
**Weather:** Sunny, Windy  
**Client:** Freeport Copper Queen Branch  
**Sampler:** VVH

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bis)</th>
<th>Nominal Size (inches)</th>
<th>Casing Capacity (Gallons per Linear Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>531</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):** 417 \( \times 3 = 1251 \) gal

**Casing Volume = gallons/foot \times \text{water column (feet)}**

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:09</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:29</td>
<td>20</td>
<td>6</td>
<td>120</td>
<td>7.82</td>
<td>21.7</td>
<td>345.1</td>
<td>Slightly cloudy, rotten egg odor</td>
</tr>
<tr>
<td>11:40</td>
<td>40</td>
<td>6</td>
<td>240</td>
<td>7.84</td>
<td>22.1</td>
<td>383.7</td>
<td>Slight yellow, sulfurous odor</td>
</tr>
<tr>
<td>12:09</td>
<td>60</td>
<td>6</td>
<td>360</td>
<td>7.84</td>
<td>22.1</td>
<td>384.5</td>
<td>Clear, slightly salty odor</td>
</tr>
<tr>
<td>12:29</td>
<td>80</td>
<td>6</td>
<td>480</td>
<td>7.79</td>
<td>22.5</td>
<td>382.8</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>12:49</td>
<td>100</td>
<td>6</td>
<td>600</td>
<td>7.81</td>
<td>22.3</td>
<td>385.4</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>13:19</td>
<td>130</td>
<td>6</td>
<td>780</td>
<td>7.85</td>
<td>22.4</td>
<td>380.1</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>13:39</td>
<td>160</td>
<td>6</td>
<td>960</td>
<td>7.82</td>
<td>22.1</td>
<td>388.2</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>14:09</td>
<td>190</td>
<td>6</td>
<td>1140</td>
<td>7.94</td>
<td>22.4</td>
<td>380.1</td>
<td>Clear, odorless</td>
</tr>
<tr>
<td>14:39</td>
<td>210</td>
<td>6</td>
<td>1260</td>
<td>7.83</td>
<td>22.3</td>
<td>383.7</td>
<td>Pump Off</td>
</tr>
</tbody>
</table>

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM0-2010-3M</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>DOP 2010-0416</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

## 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:**

**Task No:**

**Well ID:** BMO-2012-1m

**Date:** 5-8-13

**Weather:** Partly Cloudy

**WELL DATA**

- **Well Depth (ft bsl):** 405
- **Casing Diameter (in):** 5
- **Static Water Level (ft bsl):** 233.97
- **Casing Volume (gals):** 174.4

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.25</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.05</td>
</tr>
</tbody>
</table>

Casing Volume = gallon/foot * water column (foot)

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Exposed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50</td>
<td>28</td>
<td>6</td>
<td>60</td>
<td>6.26</td>
<td>23.6</td>
<td>811</td>
<td></td>
</tr>
<tr>
<td>0.70</td>
<td>40</td>
<td>10</td>
<td>180</td>
<td>6.78</td>
<td>23.7</td>
<td>810</td>
<td></td>
</tr>
<tr>
<td>0.75</td>
<td>40</td>
<td>10</td>
<td>240</td>
<td>6.78</td>
<td>22.8</td>
<td>809</td>
<td></td>
</tr>
<tr>
<td>0.80</td>
<td>40</td>
<td>10</td>
<td>240</td>
<td>6.22</td>
<td>23.9</td>
<td>814</td>
<td></td>
</tr>
</tbody>
</table>

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analytical Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMO-2012-1m</td>
<td>0820</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 200.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>
Groundwater Sampling Form

Project No: 055038  
Task No:  
Well ID: Booth  
ADWR No:  
Client: Freeport Copper Queen Branch  
Date: 1/19/13  
Weather: Sunny, Co's
Sampler: VN1

WELL DATA

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32.04</td>
<td></td>
<td>x3 =</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2.81</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>4.00</td>
<td></td>
</tr>
</tbody>
</table>

Total Volume Purged (gal):
Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
</table>

Pump On

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

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: WLO

Sampling error. Well is scheduled to be sampled before water level was collected. Sample collected 1/19/13.
# Groundwater Sampling Form

**Project No:** 055038 281030  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1.0  
**Date:** 6-14-13  
**Well ID:** Booth  
**Weather:** Sunny 80°F  
**Sampler:** BSC  

## WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

- **Casing Volume (gal):** \( x \times 3 = \)
- **Total Volume Purged (gal):** Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:10</td>
<td></td>
<td></td>
<td></td>
<td>7.61</td>
<td>51:1</td>
<td>604.2</td>
<td></td>
</tr>
</tbody>
</table>

- **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:** House outside well house
- **Sample ID:** Booth
- **Time:** 13:10
- **Container Type:** Poly
- **Volume:** 250 mL
- **No. of Containers:** 1
- **Analysis Method:** 500.0
- **Preservative:**
- **Filtered:** Yes

## WATER LEVEL MEASUREMENT COLLECTION

- [ ] Water level measurement collected.
- [x] No water level measurement collected. No access to wellhead/No port in wellhead.
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other: couldn't contact owner to access wellhead

## WELL PURGING INFORMATION

- [ ] Purged 3 well volumes and field parameters stabilized.
- [ ] Purged 3 well volumes based on previous water level and field parameters stabilized.
- [ ] Purged well until field parameters stabilized.
- [x] Other: Sampled from tank, no purge.

**Additional Comments:**

---

*N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet 2013-05-16.xls*
### Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Chambers  
**ADWR No:**  
**Date:** 4/18/13  
**Weather:** Sunny, 60's  
**Sampler:** VNH

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
<td></td>
</tr>
</tbody>
</table>

**Well Depth (ft bgs):** 24.5

**Casing Diameter (in):**

**Static Water Level (ft bmg):**

**Casing Volume (gal):** \( x3 = \)

**Total Volume Purged (gal):**

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1055</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1057</td>
<td>2</td>
<td>~2</td>
<td>7.33 19.0 425.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1059</td>
<td>4</td>
<td></td>
<td>7.49 21.8 428.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1101</td>
<td>6</td>
<td></td>
<td>7.51 18.9 428.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1103</td>
<td>8</td>
<td></td>
<td>7.50 18.6 428.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1105</td>
<td>10</td>
<td></td>
<td>7.52 21.3 434.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1107</td>
<td>12</td>
<td></td>
<td>7.50 22.0 434.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1109</td>
<td>14</td>
<td></td>
<td>7.53 19.7 429.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1111</td>
<td>16</td>
<td></td>
<td>7.50 19.6 429.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1113</td>
<td>18</td>
<td>~36</td>
<td>7.49 21.7 434.1</td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chambers</td>
<td>1115</td>
<td>Poly 250mL 2</td>
<td>300.0</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

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

### WELL PURGING INFORMATION

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

### Additional Comments:

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Formal\Groundwater Sampling Sheet
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: Cooper
ADWR No:
Client: Freeport Copper Queen Branch
Date: 4/10/13
Weather: Sunny, windy
Sampler: VHN

WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Galling per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Well Depth (ft bgs): 32.5
Casing Diameter (in): 6
Static Water Level (ft bmp):
Casing Volume (gal): x3 =
Total Volume Purged (gal):

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:50</td>
<td>5</td>
<td>0</td>
<td>30</td>
<td>7.76</td>
<td>20.5</td>
<td>4128.1</td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>10</td>
<td>0</td>
<td>100</td>
<td>7.68</td>
<td>21.0</td>
<td>4337.7</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>15</td>
<td>6</td>
<td>90</td>
<td>7.72</td>
<td>21.1</td>
<td>427.5</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooper</td>
<td>1704</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300,0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

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:**

**Task No:**

**Well ID:** Cooper C

**ADWR No:**

**Client:** Freeport Copper Queen Branch

**Date:** 5-8-13

**Weather:** Fair, Cloudy

**Sampler:** [Signature]

## WELL DATA

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Depth (ft. lbs)</td>
<td>220</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>7.11</td>
</tr>
<tr>
<td>Static Water Level (ft. bgs)</td>
<td>161.70</td>
</tr>
<tr>
<td>Casing Volume (gals)</td>
<td>85.7</td>
</tr>
<tr>
<td>3 Casing Volume (gals)</td>
<td>257</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (Inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.14</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.01</td>
</tr>
<tr>
<td>10</td>
<td>2.63</td>
</tr>
</tbody>
</table>

*Casing Volume = galls/ft * water column (ft)*

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (mhos)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:10</td>
<td>10</td>
<td>8.5</td>
<td>85</td>
<td>6.46</td>
<td>20.8</td>
<td>17.5</td>
<td></td>
</tr>
<tr>
<td>12:20</td>
<td>20</td>
<td>8.5</td>
<td>170</td>
<td>6.47</td>
<td>20.8</td>
<td>17.5</td>
<td></td>
</tr>
<tr>
<td>12:30</td>
<td>30</td>
<td>8.5</td>
<td>297</td>
<td>6.41</td>
<td>20.8</td>
<td>17.5</td>
<td></td>
</tr>
</tbody>
</table>

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooper C</td>
<td>12:35</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

**Additional Comments:**
Groundwater Sampling Form

Project No: 055038
Client: Freeport Copper Queen Branch
Date: 4/9/13
Weather: Windy, rainy
Sampler: 

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bmp):</td>
<td>98.09</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>150 \times 3 = 450</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>490</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.51</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time</th>
<th>Discharge Rate</th>
<th>Total Discharge</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:538</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:549</td>
<td>10</td>
<td>12</td>
<td>120</td>
<td>7.33</td>
<td>19.5</td>
<td>1919</td>
<td></td>
</tr>
<tr>
<td>1:558</td>
<td>20</td>
<td>12</td>
<td>240</td>
<td>7.35</td>
<td>19.1</td>
<td>1973</td>
<td></td>
</tr>
<tr>
<td>1:568</td>
<td>30</td>
<td>12</td>
<td>360</td>
<td>7.34</td>
<td>19.3</td>
<td>1951</td>
<td></td>
</tr>
<tr>
<td>1:578</td>
<td>40</td>
<td>12</td>
<td>480</td>
<td>7.33</td>
<td>19.0</td>
<td>188.6</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodson</td>
<td>1624</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

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:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Well ID:** Dur-ar  
**Date:** 4/11/13  
**Weather:** Sunny, 70's  
**Sampler:** VNH

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in.)</th>
<th>Static Water Level (ft berm)</th>
<th>Casing Volume (gal)</th>
<th>Total Volume Purged (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Unable to get, access is shut</td>
<td>x3 = shut</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
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<tr>
<td>5</td>
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<tr>
<td>6</td>
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<tr>
<td>8</td>
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<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
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</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
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<tr>
<td>Pump Off</td>
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</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### 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 well is rusted or welded closed.

---

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet
### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>12.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bmp)</td>
<td>73.65</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>106 * 3 = 207</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td>220</td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:31</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30</td>
<td>5</td>
<td>11</td>
<td>55</td>
<td>7.55</td>
<td>19.5</td>
<td>610.9</td>
<td></td>
</tr>
<tr>
<td>12:41</td>
<td>10</td>
<td>11</td>
<td>110</td>
<td>7.56</td>
<td>19.9</td>
<td>600.2</td>
<td></td>
</tr>
<tr>
<td>12:56</td>
<td>15</td>
<td>11</td>
<td>116</td>
<td>7.54</td>
<td>19.7</td>
<td>602.1</td>
<td></td>
</tr>
<tr>
<td>12:51</td>
<td>20</td>
<td>11</td>
<td>220</td>
<td>7.54</td>
<td>19.6</td>
<td>597.7</td>
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</tr>
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</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>East</td>
<td>12:50</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>3000.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

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

### WELL PURGING INFORMATION

- Q: 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: 055038
Client: Freeport Copper Queen Branch
Task No: 5/14/13
Well ID: Echave
Weather: Sunny, 70's
Sampler: YIH

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>345</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>10</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>218.41' from 1/18/18</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>1860 \times 3 = 558</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>560</td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1249</td>
<td></td>
<td>15</td>
<td>8</td>
<td>120</td>
<td>7.29</td>
<td>22.9</td>
<td>399.4</td>
</tr>
<tr>
<td>1304</td>
<td></td>
<td>30</td>
<td>6</td>
<td>240</td>
<td>7.36</td>
<td>22.3</td>
<td>400.1</td>
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<tr>
<td>1319</td>
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<td>45</td>
<td>6</td>
<td>360</td>
<td>7.73</td>
<td>22.1</td>
<td>400.4</td>
</tr>
<tr>
<td>1334</td>
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<td>60</td>
<td>8</td>
<td>480</td>
<td>7.77</td>
<td>22.1</td>
<td>400.3</td>
</tr>
<tr>
<td>1344</td>
<td></td>
<td>70</td>
<td>6</td>
<td>560</td>
<td>7.74</td>
<td>22.2</td>
<td>400.2</td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Echave</td>
<td>1350</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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. @ ~ 25'
- No water level measurement collected. Well is 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 is NW of Garage - well owner must turn on pump from inside garage. Bore from spinot off well head. Careful for being sprayed in face from P-release & tap of drip pipe.
## Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Date:** 4/8/2013  
**Well ID:** Eppie 641  
**Sampled:** WJH

### WELL DATA
- **Well Depth (ft bgs):** 26.5
- **Casing Diameter (in):** 8
- **Static Water Level (ft bmp):** 93.98
- **Casing Volume (gal):** 
  \[472 \times 3 = 1416\]  
- **Total Volume Purged (gal):** 378

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1217</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1227</td>
<td>10</td>
<td>9</td>
<td>9.00</td>
<td>7.55</td>
<td>20.6</td>
<td>563.2</td>
<td></td>
</tr>
<tr>
<td>1237</td>
<td>20</td>
<td>9</td>
<td>18.00</td>
<td>7.73</td>
<td>20.4</td>
<td>564.3</td>
<td></td>
</tr>
<tr>
<td>1247</td>
<td>30</td>
<td>9</td>
<td>27.00</td>
<td>7.74</td>
<td>20.4</td>
<td>562.2</td>
<td></td>
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<td>1257</td>
<td>40</td>
<td>9</td>
<td>36.00</td>
<td>7.71</td>
<td>20.4</td>
<td>564.1</td>
<td></td>
</tr>
<tr>
<td>1259</td>
<td>41</td>
<td>9</td>
<td>37.80</td>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
</tr>
</tbody>
</table>

Pump Off

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (ym)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eppie 641</td>
<td>1320</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>y</td>
</tr>
<tr>
<td>DIP20130408</td>
<td>1800</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

### 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 dry @ 1259, or 378 gal. Wait 15 min before sample.
### Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Date:** 4/10/13  
**Weather:** Sunny, Windy  
**Sampler:** VNH  
**Well ID:** Frango 101  

#### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.51</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

**Total Volume Purged (gal):**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pump On</td>
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<td></td>
<td>Pump Off</td>
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</tr>
</tbody>
</table>

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

#### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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:** WLO

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet
# Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Well ID:** Franco 383  
**ADWR No:**  
**Date:** 4/10/19  
**Weather:** Sunny, Windy  
**Sampler:** YH

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>711</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgs)</td>
<td>196.25</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>52.5 x3 = 1575</td>
</tr>
</tbody>
</table>

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

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1223</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1243</td>
<td>2.0</td>
<td>8</td>
<td>160</td>
<td>7.54</td>
<td>19.8</td>
<td>993.5</td>
<td></td>
</tr>
<tr>
<td>1303</td>
<td>40</td>
<td>8</td>
<td>320</td>
<td>7.68</td>
<td>20.2</td>
<td>1001</td>
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</tr>
<tr>
<td>1323</td>
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<td>480</td>
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<td>1000</td>
<td></td>
</tr>
<tr>
<td>1333</td>
<td>70</td>
<td>8</td>
<td>560</td>
<td>7.70</td>
<td>20.4</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Franco 383</td>
<td>1337</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>3002.0</td>
<td>NA</td>
<td>Y</td>
</tr>
<tr>
<td>Franco 383</td>
<td>1340</td>
<td>Plastic</td>
<td>15mL</td>
<td>1</td>
<td>SRB BART</td>
<td>NA</td>
<td>N</td>
</tr>
</tbody>
</table>

**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 1 well volume, & field parameters stabilized.

Additional Comments:
**Groundwater Sampling Form**

<table>
<thead>
<tr>
<th>Project No:</th>
<th>055038</th>
<th>Client:</th>
<th>Freeport Copper Queen Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task No:</td>
<td></td>
<td>Date:</td>
<td>4/15/03</td>
</tr>
<tr>
<td>Well ID:</td>
<td>Garner</td>
<td>Weather:</td>
<td>Sunny, Windy</td>
</tr>
<tr>
<td>ADWR No:</td>
<td></td>
<td>Sampler:</td>
<td>VH</td>
</tr>
</tbody>
</table>

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft b.s.)</th>
<th>Casing Diameter (in)</th>
<th>Static Water Level (ft b.m.p.)</th>
<th>Casing Volume (gal)</th>
<th>Total Volume Purged (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>197.76</td>
<td>x3 =</td>
<td></td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.55</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.01</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### 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:** VNQ
Groundwater Sampling Form

Project No: 055038
Client: Freeport Copper Queen Branch
Task No: 1
Date: 4/15/13
Well ID: Garner 635
Weather: Sunny, Windy
Sampler: JH

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft lbs):</th>
<th>Nominal Size (inches)</th>
<th>Casing Capacity</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>680</td>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>4</td>
<td>0.65</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft bmp):</td>
<td>6</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td>200.53</td>
<td>8</td>
<td>2.61</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>10</td>
<td>4.08</td>
<td></td>
</tr>
<tr>
<td>480 x 3 = 1440.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): Casing Volume = gallons/foot * water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1620</td>
<td>20</td>
<td>12</td>
<td>240</td>
<td>7.71</td>
<td>24.1</td>
<td>470.2</td>
<td></td>
</tr>
<tr>
<td>1640</td>
<td>40</td>
<td>12</td>
<td>480</td>
<td>7.77</td>
<td>23.6</td>
<td>419.4</td>
<td></td>
</tr>
<tr>
<td>1700</td>
<td>60</td>
<td>12</td>
<td>720</td>
<td>7.81</td>
<td>23.8</td>
<td>419.1</td>
<td></td>
</tr>
<tr>
<td>1720</td>
<td>80</td>
<td>12</td>
<td>960</td>
<td>7.84</td>
<td>23.5</td>
<td>417.1</td>
<td></td>
</tr>
<tr>
<td>1740</td>
<td>100</td>
<td>12</td>
<td>1200</td>
<td>7.86</td>
<td>23.2</td>
<td>473.0</td>
<td></td>
</tr>
<tr>
<td>1800</td>
<td>120</td>
<td>12</td>
<td>1440</td>
<td>7.39</td>
<td>23.4</td>
<td>471.5</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garner 635</td>
<td>1803</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

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

<table>
<thead>
<tr>
<th>Project No:</th>
<th>Grant: Freepoint Copper Queen Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task No:</td>
<td>Date: 5-8-13</td>
</tr>
<tr>
<td>Well ID:</td>
<td>Weather: Partly Cloudy</td>
</tr>
<tr>
<td>ADHES No:</td>
<td>Sampler: Christopher L. Sherman</td>
</tr>
</tbody>
</table>

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>2</td>
<td>0.10</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.88</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.22</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.67</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.81</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.03</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>69.95</td>
<td>378</td>
</tr>
</tbody>
</table>

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SI)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (ufm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0940</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0950</td>
<td>10</td>
<td>12</td>
<td>176</td>
<td>6.55</td>
<td>21.5</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>0900</td>
<td>20</td>
<td>12</td>
<td>289</td>
<td>6.19</td>
<td>21.6</td>
<td>1903</td>
<td></td>
</tr>
<tr>
<td>0910</td>
<td>30</td>
<td>12</td>
<td>518</td>
<td>6.16</td>
<td>21.7</td>
<td>1903</td>
<td></td>
</tr>
</tbody>
</table>

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haban</td>
<td>0910</td>
<td>plastic</td>
<td>250 ml</td>
<td>1</td>
<td>EPA 300.0</td>
<td>none</td>
<td>filtered</td>
</tr>
</tbody>
</table>

Additional Comments: 130
Groundwater Sampling Form

Project No: 287030
Task No: 1.0
Well ID: House well
ADWR No:

WELL DATA

Well Depth (ft bgs):
Casing Diameter (in):
Static Water Level (ft bgs): 182.20
Casing Volume (gal): x3 =

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

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

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

Pump Off

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: Water Level Only.

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:

Client: Freeport Copper Queen Branch
Date: 6-19-13
Weather: Summer 70s
Sampler: RSD (c)
## Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:** 1  
**Date:** 4/9/13  
**Well ID:** Howard NR  
**Weather:** Overcast, windy  
**ADWR No:**  

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bgs): 200</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>Casing Diameter (in): 6</td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>Static Water Level (ft bgs): 156.71</td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>Casing Volume (gal): 63.6 x 3 = 191</td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>Total Volume Purged (gal): 210</td>
<td>8</td>
<td>2.51</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0454</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0959</td>
<td>5</td>
<td>10.5</td>
<td>52.5</td>
<td>26.74</td>
<td>20.1</td>
<td>1188</td>
<td></td>
</tr>
<tr>
<td>1004</td>
<td>10</td>
<td>10.5</td>
<td>105</td>
<td>3.21</td>
<td>19.8</td>
<td>1260</td>
<td></td>
</tr>
<tr>
<td>1059</td>
<td>15</td>
<td>10.5</td>
<td>157.5</td>
<td>7.24</td>
<td>19.7</td>
<td>1301</td>
<td></td>
</tr>
<tr>
<td>1014</td>
<td>20</td>
<td>10.5</td>
<td>210</td>
<td>7.38</td>
<td>19.4</td>
<td>1319</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Howard NR</td>
<td>1023</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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: 055038
Task No: 1
Well ID: Howard 312
ADWR No: 
Sampler: VNH

Client: Freeport Copper Queen Branch
Date: 4/19/13
Weather: Overcast, Windy

WELL DATA

Well Depth (ft bsg): 980
Casing Diameter (in): 5
Static Water Level (ft bmg): 195.30'
Casing Volume (gal): 800.3 \times 3 = 2401
Total Volume Purged (gal): 113.0

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Casing Volume = gallons/foot \times water column (feet)

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0820</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0840</td>
<td>20</td>
<td>8</td>
<td>160</td>
<td>8.16</td>
<td>21.0</td>
<td>623.6</td>
<td></td>
</tr>
<tr>
<td>0900</td>
<td>40</td>
<td>8</td>
<td>320</td>
<td>8.25</td>
<td>21.4</td>
<td>624.5</td>
<td></td>
</tr>
<tr>
<td>0920</td>
<td>60</td>
<td>8</td>
<td>480</td>
<td>8.27</td>
<td>21.3</td>
<td>619.7</td>
<td></td>
</tr>
<tr>
<td>0940</td>
<td>80</td>
<td>8</td>
<td>640</td>
<td>8.26</td>
<td>23.5</td>
<td>623.9</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>100</td>
<td>8</td>
<td>800</td>
<td>8.20</td>
<td>24.8</td>
<td>625.9</td>
<td></td>
</tr>
<tr>
<td>1020</td>
<td>120</td>
<td>8</td>
<td>960</td>
<td>8.19</td>
<td>24.7</td>
<td>626.8 &lt; 0.05 ppm H₂S</td>
<td></td>
</tr>
<tr>
<td>1040</td>
<td>140</td>
<td>8</td>
<td>1120</td>
<td>8.20</td>
<td>24.3</td>
<td>621.0 &lt; 0.05 ppm H₂S</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Howard 312</td>
<td>1050</td>
<td>Poly 250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Howard 312</td>
<td>1050</td>
<td>Plastic 15ml</td>
<td>1</td>
<td>BART-3RE</td>
<td>NA</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

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 well volume (minimum) 3a stable parameters
# Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Keesler  
**ADWR No:**  
**Sampler:** VHF  
**Weather:** Sunny, 60's  
**Date:** 4/18/13

## WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft b.s.)</td>
<td>245</td>
<td></td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft b.m.p)</td>
<td>141.32</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>152 x3 = 456</td>
<td></td>
</tr>
</tbody>
</table>

Total Volume Purged (gal):  
Casing Volume = gallons/foot * water column (feet)

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:40</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:55</td>
<td>15</td>
<td>10</td>
<td>150</td>
<td>7.29</td>
<td>19.2</td>
<td>449.6</td>
<td></td>
</tr>
<tr>
<td>2:10</td>
<td>30</td>
<td>10</td>
<td>300</td>
<td>7.57</td>
<td>19.7</td>
<td>465.1</td>
<td></td>
</tr>
<tr>
<td>2:25</td>
<td>45</td>
<td>10</td>
<td>450</td>
<td>7.58</td>
<td>20.0</td>
<td>475.9</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keesler</td>
<td>1226</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>3000%</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

## 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:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** McConnell 265  
**ADWR No:**  
**Weather:** Sunny, 60's  
**Date:** 4/18/13  

#### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl)</td>
<td>210</td>
<td>0.16</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>6</td>
<td>0.65</td>
</tr>
<tr>
<td>Static Water Level (ft bsl)</td>
<td>163.08</td>
<td>1.02</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>78 x 3 = 234</td>
<td>1.47</td>
</tr>
<tr>
<td>Total Volume Purged (gal)</td>
<td></td>
<td>2.61</td>
</tr>
<tr>
<td>Casing Volume = gallons/foot * water column (feet)</td>
<td></td>
<td>4.08</td>
</tr>
</tbody>
</table>

#### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1530</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1540</td>
<td></td>
<td>7</td>
<td>70</td>
<td>7.06</td>
<td>20.8</td>
<td>1975</td>
<td></td>
</tr>
<tr>
<td>1550</td>
<td></td>
<td>7</td>
<td>140</td>
<td>7.05</td>
<td>20.3</td>
<td>1928</td>
<td></td>
</tr>
<tr>
<td>1600</td>
<td></td>
<td>7</td>
<td>210</td>
<td>7.12</td>
<td>20.5</td>
<td>1883</td>
<td></td>
</tr>
<tr>
<td>1605</td>
<td></td>
<td>7</td>
<td>245</td>
<td>7.11</td>
<td>20.4</td>
<td>1889</td>
<td></td>
</tr>
</tbody>
</table>

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

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McConnell 265</td>
<td>11008</td>
<td>Poly</td>
<td>250 mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>4</td>
</tr>
</tbody>
</table>

**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: 055038
Task No: 1
Well ID: McConnell 459
ADWR No: 1

Client: Freeport Copper Queen Branch
Date: 4/10/13
Weather: Sunny, windy
Sampler: UNH

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>960.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>160.279</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>710 x 3 = 2130</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>770</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.51</td>
</tr>
<tr>
<td>10</td>
<td>4.06</td>
</tr>
</tbody>
</table>

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:17</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:37</td>
<td>20</td>
<td>1</td>
<td>220</td>
<td>8.04</td>
<td>23.2</td>
<td>477.6</td>
<td></td>
</tr>
<tr>
<td>14:57</td>
<td>40</td>
<td>1</td>
<td>440</td>
<td>8.03</td>
<td>23.6</td>
<td>478.5</td>
<td></td>
</tr>
<tr>
<td>15:17</td>
<td>60</td>
<td>1</td>
<td>660</td>
<td>8.08</td>
<td>23.8</td>
<td>483.4</td>
<td></td>
</tr>
<tr>
<td>15:27</td>
<td>70</td>
<td>1</td>
<td>770</td>
<td>8.14</td>
<td>23.5</td>
<td>487.0</td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>McConnell 459 1531</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>McConnell 459 1533</td>
<td>Plastic</td>
<td>15ml</td>
<td>1</td>
<td>3RB-BART</td>
<td>NA</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

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:

☐ 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: Purge 1 well volume, & field parameters stabilized

Additional Comments:
Groundwater Sampling Form

Project No: 055038  
Task No: 1  
Well ID: Marcell  
ADWR No:  
Client: Freeport Copper Queen Branch  
Date: 4/10/13  
Weather: Sunny, 70's  
Sampler: VNH

| WELL DATA |  |
|-----------|  |
| Well Depth (ft bis): | ~ 220' |
| Casing Diameter (in): | 6 |
| Static Water Level (ft bmp): | ~ 180' |
| Casing Volume (gal): | 60 x 3 = 180 |
| Total Volume Purged (gal): | 180 |

<p>| Field Sampling Data |  |
|---------------------|  |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>6958</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1003</td>
<td>5</td>
<td>11.5</td>
<td>57.5</td>
<td>7.11</td>
<td>19.6</td>
<td>162.9</td>
<td></td>
</tr>
<tr>
<td>1008</td>
<td>10</td>
<td>11.5</td>
<td>115</td>
<td>7.10</td>
<td>20.3</td>
<td>157.3</td>
<td></td>
</tr>
<tr>
<td>1013</td>
<td>15</td>
<td>11.5</td>
<td>172.5</td>
<td>7.07</td>
<td>19.9</td>
<td>157.8</td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marcell</td>
<td>1020</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

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:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Metzler  
**ADWR No:**  
**Date:** 4/11/13  
**Weather:** Sunny, 70's  
**Sampler:** WLC

## WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

## 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:** WLC
Groundwater Sampling Form

Project No: 005038  2870-30
Task No: 1.0
Well ID: middle well 2
ADWR No: Sampler: 

Client: Freeport Copper Queen Branch
Date: 6/14/13
Weather: Sunny 70's

<table>
<thead>
<tr>
<th>WELL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Size (inches)</strong></td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>Total Volume Purged (gal):  x3 =</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>FIELD SAMPLING DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
</tr>
<tr>
<td>Elapsed Time (min)</td>
</tr>
<tr>
<td>Discharge Rate (gpm)</td>
</tr>
<tr>
<td>Total Discharge</td>
</tr>
<tr>
<td>(gallons)</td>
</tr>
<tr>
<td>pH (SU)</td>
</tr>
<tr>
<td>Temp (°C)</td>
</tr>
<tr>
<td>Specific Conductance</td>
</tr>
<tr>
<td>μS/cm</td>
</tr>
</tbody>
</table>

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: well schedule is for water level measurement only

N:\Projects\G & K055038, Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-05-16.xls
# Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Moore  
**ADWR No:**  
**Date:** 4/19/13  
**Weather:** Sunny, 60°F

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>220</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in)</td>
<td>10</td>
</tr>
<tr>
<td>Static Water Level (ft bmgp)</td>
<td>NA</td>
</tr>
<tr>
<td>Casing Volume (gall)</td>
<td>50 min purge x 3 = 2,90</td>
</tr>
<tr>
<td>Total Volume Purged (gall)</td>
<td>2,90</td>
</tr>
</tbody>
</table>

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

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>6920</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0930</td>
<td>10</td>
<td>9</td>
<td>90</td>
<td>7.55</td>
<td>21.4</td>
<td>435.4</td>
<td></td>
</tr>
<tr>
<td>0940</td>
<td>20</td>
<td>9</td>
<td>180</td>
<td>7.167</td>
<td>21.3</td>
<td>434.3</td>
<td></td>
</tr>
<tr>
<td>0950</td>
<td>30</td>
<td>9</td>
<td>270</td>
<td>7.68</td>
<td>21.6</td>
<td>434.7</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moore</td>
<td>0955</td>
<td>POLY</td>
<td>250mL</td>
<td>2</td>
<td>ZEO *</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

## 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: 055038  
Client: Freeport Copper Queen Branch

Task No: 1  
Date: 4/8/13

Well ID: Noteman  
Weather: Sunny, WINDY

ADWR No:  
Sampler: YH

---

**WELL DATA**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Casing Capacity

- Casing Volume (gal): \( x3 = \)
- Total Volume Purged (gal): 200
- Field Parameter Stabilization: Three consecutive readings within 0.3 su pH, 2 degrees C, and 100 μS/cm

---

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1051</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1101</td>
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<td>10</td>
<td>100</td>
<td>6.79</td>
<td>22.3</td>
<td>1425</td>
<td></td>
</tr>
<tr>
<td>1111</td>
<td>20</td>
<td>10</td>
<td>200</td>
<td>6.82</td>
<td>22.4</td>
<td>1424</td>
<td></td>
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<tr>
<td>1121</td>
<td>30</td>
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<td>300</td>
<td>6.90</td>
<td>22.3</td>
<td>1409</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noteman</td>
<td>1128</td>
<td>Poly</td>
<td>250</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

---

**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:

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Format\Groundwater Sampling Sheet
# Groundwater Sampling Form

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Date:** 01/17/13  
**Well ID:** NWC-02  
**Weather:** Windy, 100°F  
**Sampler:** VM  

## WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0949</td>
<td></td>
<td></td>
<td></td>
<td>7.51</td>
<td>21.1</td>
<td>435.7</td>
<td></td>
</tr>
<tr>
<td>0954</td>
<td></td>
<td></td>
<td></td>
<td>7.59</td>
<td>21.1</td>
<td>427.1</td>
<td></td>
</tr>
<tr>
<td>0959</td>
<td></td>
<td></td>
<td></td>
<td>7.64</td>
<td>21.2</td>
<td>426.2</td>
<td></td>
</tr>
</tbody>
</table>

### FIELD PARAMETER STABILIZATION

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWC-02</td>
<td>1002</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>3% H2O</td>
<td>N/A</td>
<td>Y</td>
</tr>
</tbody>
</table>

## 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:**

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Order\Groundwater\Monitoring\Forms\Groundwater Sampling Sheet
Groundwater Sampling Form

Project No: 055038
Task No: 
Well ID: NWC-03
ADWR No: 

Client: Freeport Copper Queen Branch
Weather: Sunny, Windy

WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

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: Unable to take readings as well has been abandoned. Replaced by relay station for NWC-030.
Groundwater Sampling Form

Project No: 055038  
Client: Freeport Copper Queen Branch

Task No:  
Date: 4/17/13

Well ID: NWC-03CAP  
Weather: Sunny, windy

ADWR No:  
Sampler: VN

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
<th>130, 32'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Water Level (ft bgl):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): 

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time (min)</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
</table>

Pump On

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

Pump Off

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### WATER LEVEL MEASUREMENT/COLLECTION

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

### WELL PURGING INFORMATION

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

Additional Comments: WLO
## Groundwater Sampling Form

### Project No: 055038
### Task No:
### Well ID: NWC - 04
### ADWR No: 
### Client: Freeport Copper Queen Branch
### Date: 4/17/13
### Weather: Sunny, Windy, 80's
### Sampler: JH

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.95</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>2.51</td>
<td></td>
</tr>
</tbody>
</table>

**Casing Volume (gal):**

\[ x3 = \]

**Total Volume Purged (gal):**

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td>7.35</td>
<td>21.7</td>
<td>897.2</td>
<td></td>
</tr>
<tr>
<td>0824</td>
<td></td>
<td></td>
<td></td>
<td>7.47</td>
<td>22.5</td>
<td>905.3</td>
<td></td>
</tr>
<tr>
<td>0831</td>
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<td></td>
<td>7.43</td>
<td>22.6</td>
<td>903.8</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWC - 04</td>
<td>0835</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet
Groundwater Sampling Form

Project No: 055038
Client: Freeport Copper Queen Branch
Task No: 
Date: 5/14/13
Well ID: NWC-04
Weather: Sunny, breezy
ADWR No: 
Sampler: VW + Jose Martinez (NWC)

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>Nominal Size (inches)</td>
</tr>
<tr>
<td>x3 =</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Static Water Level (ft bwp):</td>
<td>6</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>8</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>10</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0825</td>
<td></td>
<td></td>
<td></td>
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<td>22.9</td>
<td>906.9</td>
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</tr>
<tr>
<td>0830</td>
<td></td>
<td></td>
<td></td>
<td>7.55</td>
<td>23.2</td>
<td>900.3</td>
<td></td>
</tr>
<tr>
<td>0835</td>
<td></td>
<td></td>
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<td>7.49</td>
<td>23.3</td>
<td>883.5</td>
<td></td>
</tr>
<tr>
<td>0840</td>
<td></td>
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<td></td>
<td>7.53</td>
<td>23.2</td>
<td>881.7</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWC-04</td>
<td>0845</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>80C, 0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

### 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, intermittently.
- 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: Water for parameters + sample collected from spigot at well head.
Groundwater Sampling Form

Project No: 055655 78703D
Task No: 10
Well ID: NWC-09
ADWR No: 
Client: Freeport Copper Queen Branch
Date: 6/5/13
Weather: Sunny 80°
Sampler: BOO

WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
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<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Static Water Level (ft bsm): Obstruction in well
Casing Volume (gal): x3 =

Total Volume Purged (gal):

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:25</td>
<td>5</td>
<td>20</td>
<td>100</td>
<td>7.13</td>
<td>23.5°</td>
<td>866.2</td>
<td></td>
</tr>
<tr>
<td>8:30</td>
<td>10</td>
<td>20</td>
<td>200</td>
<td>7.34</td>
<td>23.8°</td>
<td>862.8</td>
<td></td>
</tr>
<tr>
<td>8:35</td>
<td>15</td>
<td>20</td>
<td>300</td>
<td>7.29</td>
<td>23.9°</td>
<td>862.7</td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWC-09</td>
<td>8:35</td>
<td>poly</td>
<td>250 ml</td>
<td>1</td>
<td>200.0</td>
<td>φ</td>
<td>Y</td>
</tr>
</tbody>
</table>

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 was off on arrival. There said the well has been...

Additional Comments: Cycling over 3 hours recently.

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-05-16.xls
Groundwater Sampling Form

Project No: 055038
Task No: 
Well ID: NWU-060
ADWR No: 

Client: Freeport Copper Queen Branch
Date: 4/7/13
Weather: Windy, Sunny
Sampler: UNH

WELL DATA

Well Depth (ft bgs):
Casing Diameter (in):
Static Water Level (ft bng):
Casing Volume (gal):
x3 =
Total Volume Purged (gal):

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:17</td>
<td></td>
<td></td>
<td></td>
<td>7.53</td>
<td>20.8</td>
<td>405.60</td>
<td></td>
</tr>
<tr>
<td>09:22</td>
<td></td>
<td></td>
<td></td>
<td>7.10</td>
<td>21.4</td>
<td>406.5</td>
<td></td>
</tr>
<tr>
<td>09:27</td>
<td></td>
<td></td>
<td></td>
<td>7.00</td>
<td>21.1</td>
<td>404.1</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWU-060</td>
<td>09:30</td>
<td>Poly</td>
<td>250 ml</td>
<td>2</td>
<td>800.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

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
Groundwater Sampling Form

Project No: 055038
Client: Freeport Copper Queen Branch
Task No:
Date: 6-14-13
Well ID: Old House Well
Weather: Sunny 70's
Sampler: 850

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>2</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Capacity</td>
<td>0.16</td>
<td>0.65</td>
<td>1.02</td>
<td>1.47</td>
<td>2.61</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Well Depth (ft bgs):
Static Water Level (ft bmg): 86.54
Casing Volume (gal): x3 =

Total Volume Purged (gal): Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample Collection Point:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### 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: Water level only
Groundwater Sampling Form

Project No: 055038
Task No: i.
Well ID: Oxborn
ADWR No: 

Client: Freeport Copper Queen Branch
Date: 4/8/13
Weather: Sunny, Very Windy
Sampler: 

### WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal):

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### WATER LEVEL MEASUREMENT/COLLECTION

- [ ] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [x] No water level measurement collected. Obstruction in well. C - left
- [ ] No water level measurement collected. Well is 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: Unable to sample. Mr. Oxborn unsure of how much hauled water may be in sample, mixed with well-water.
Groundwater Sampling Form

Project No: 055038  Client: Freeport Copper Queen Branch
Task No: 1  Date: 4/8/13
Well ID: Palmer  Weather: Sunny, WINDY
ADWR No: Sampler:

<table>
<thead>
<tr>
<th>WELL DATA</th>
<th>Casing Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl):</td>
<td>Nominal Size (inches)</td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Static Water Level (ft bsl):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>Casing Volume = gallons/foot * water column (feet)</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIELD SAMPLING DATA</th>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td>Pump Off</td>
<td>0910</td>
<td>8.07</td>
<td>18.4</td>
<td>534.1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>SAMPLE INFORMATION</th>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palmer</td>
<td>0910</td>
<td>Poly</td>
<td>250 ml</td>
<td>2</td>
<td>3000 0</td>
<td>NA</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

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: Sample collected from water tank at top garage.
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: Panagakos
ADWR No: 

Client: Freeport Copper Queen Branch
Date: 4/9/13
Weather: Partly cloudy, windy
Sampler: 

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bgs):</td>
<td>167.79</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>47 x 3 = 142</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>160</td>
</tr>
</tbody>
</table>

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1650</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1655</td>
<td>5</td>
<td>8</td>
<td>40</td>
<td>7.22</td>
<td>19.7</td>
<td>1045</td>
<td></td>
</tr>
<tr>
<td>1700</td>
<td>10</td>
<td>8</td>
<td>80</td>
<td>7.23</td>
<td>19.6</td>
<td>1061</td>
<td></td>
</tr>
<tr>
<td>1705</td>
<td>15</td>
<td>8</td>
<td>120</td>
<td>7.23</td>
<td>19.6</td>
<td>1096</td>
<td></td>
</tr>
<tr>
<td>1710</td>
<td>20</td>
<td>8</td>
<td>160</td>
<td>7.24</td>
<td>19.7</td>
<td>1105</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panagakos</td>
<td>1715</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>N/A</td>
<td>Y</td>
</tr>
</tbody>
</table>

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:** 055038  
**Task No:** 1  
**Well ID:** Parra  
**ADWR No:**  

**WELL DATA**

<table>
<thead>
<tr>
<th>Well Depth (ft bis)</th>
<th>Casing Diameter (in)</th>
<th>Static Water Level (ft bgl)</th>
<th>Casing Volume (gal)</th>
<th>Total Volume Purged (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>355</td>
<td>6</td>
<td>N/A use 280.99'</td>
<td>109 x3 = 327</td>
<td>330</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1020</td>
<td>Pump On</td>
<td>10</td>
<td>11</td>
<td>110</td>
<td>7.20</td>
<td>21.8</td>
<td>1201</td>
</tr>
<tr>
<td>1030</td>
<td></td>
<td>10</td>
<td>11</td>
<td>220</td>
<td>7.24</td>
<td>21.3</td>
<td>1208</td>
</tr>
<tr>
<td>1050</td>
<td></td>
<td>10</td>
<td>11</td>
<td>330</td>
<td>7.29</td>
<td>21.2</td>
<td>1206</td>
</tr>
</tbody>
</table>

Pump Off

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

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parra</td>
<td>1654</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

**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:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Pima 3A5  
**Weather:** Windy, sunny, 70's  
**ADWR No:**  
**Sampler:** VN

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in)</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.95</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Nominal Size (inches)  
Gallons per Linear Foot

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>31/02</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Sample</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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:**

---

N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet

---

CLEAR CREEK ASSOCIATES
## WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft lbs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft bmp)</td>
<td>152.58</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>4100 x 3 = 13300</td>
<td></td>
</tr>
</tbody>
</table>

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

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time</th>
<th>Discharge Rate</th>
<th>Total Discharge</th>
<th>pH</th>
<th>Temp</th>
<th>Specific Conductance</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1302</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1322</td>
<td></td>
<td>20</td>
<td>12</td>
<td>2.46</td>
<td>7.64</td>
<td>22.2</td>
<td>392.5</td>
</tr>
<tr>
<td>1342</td>
<td></td>
<td>40</td>
<td>12</td>
<td>480</td>
<td>7.78</td>
<td>22.2</td>
<td>391.3</td>
</tr>
<tr>
<td>1402</td>
<td></td>
<td>60</td>
<td>12</td>
<td>720</td>
<td>7.79</td>
<td>22.2</td>
<td>390.6</td>
</tr>
<tr>
<td>1422</td>
<td></td>
<td>80</td>
<td>12</td>
<td>960</td>
<td>7.82</td>
<td>22.2</td>
<td>390.4</td>
</tr>
<tr>
<td>1442</td>
<td></td>
<td>100</td>
<td>12</td>
<td>1200</td>
<td>7.81</td>
<td>22.5</td>
<td>389.7</td>
</tr>
<tr>
<td>1502</td>
<td></td>
<td>120</td>
<td>12</td>
<td>1440</td>
<td>7.34</td>
<td>22.1</td>
<td>391.9</td>
</tr>
</tbody>
</table>

Pump Off

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pionke 517</td>
<td>1505</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>308.8</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

## 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:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Ramírez  
**Weather:** Sunny, 60's  
**ADWR No:**  
**Date:** 4/19/13  
**Sampler:** YNH

## WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bpm):</td>
<td>1164, 946</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>19.9 x 3 = 59.7</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.55</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:25</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:40</td>
<td>15</td>
<td>10</td>
<td>150</td>
<td>7.63</td>
<td>22.0</td>
<td>414.3</td>
<td></td>
</tr>
<tr>
<td>10:55</td>
<td>30</td>
<td>10</td>
<td>300</td>
<td>7.66</td>
<td>21.7</td>
<td>414.3</td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td>45</td>
<td>10</td>
<td>450</td>
<td>7.66</td>
<td>21.9</td>
<td>414.3</td>
<td></td>
</tr>
<tr>
<td>11:25</td>
<td>160</td>
<td>10</td>
<td>1600</td>
<td>7.60</td>
<td>22.1</td>
<td>413.9</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

## SAMPLE INFORMATION

| Sample ID  | Time | Container Type | Volume | No. of Containers | Analysis Method | Preservative | filtered (Y/n) |
|------------|------|----------------|--------|-------------------|-----------------|--------------|----------------|---------------|
| Ramirez    | 11:30| Poly           | 250 ml | 2                 | 300.0          | NA           | Y              |

## WATER LEVEL MEASUREMENT COLLECTION

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

## WELL PURGING INFORMATION

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

Additional Comments:
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: Raw
ADWR No:

Client: Freeport Copper Queen Branch
Date: 4/3/13
Weather: Sunny, Windy
Sampler:

WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs):</th>
<th>100'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
</tr>
<tr>
<td>Static Water Level (ft bmp):</td>
<td>56.32'</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>64 x 3 = 192</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>210</td>
</tr>
</tbody>
</table>

Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1347</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1352</td>
<td></td>
<td>7</td>
<td>35</td>
<td>7.12</td>
<td>20.7</td>
<td>1470</td>
<td></td>
</tr>
<tr>
<td>1357</td>
<td></td>
<td>10</td>
<td>70</td>
<td>7.39</td>
<td>20.0</td>
<td>1458</td>
<td></td>
</tr>
<tr>
<td>1402</td>
<td></td>
<td>15</td>
<td>105</td>
<td>7.27</td>
<td>20.0</td>
<td>1451</td>
<td></td>
</tr>
<tr>
<td>1407</td>
<td></td>
<td>20</td>
<td>140</td>
<td>7.29</td>
<td>20.1</td>
<td>1450</td>
<td></td>
</tr>
<tr>
<td>1412</td>
<td></td>
<td>25</td>
<td>175</td>
<td>7.30</td>
<td>19.5</td>
<td>1469</td>
<td></td>
</tr>
<tr>
<td>1417</td>
<td></td>
<td>30</td>
<td>210</td>
<td>7.32</td>
<td>20.0</td>
<td>1476</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw</td>
<td>1425</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>380.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

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:

N:/Projects/G & K055036_Copper Queen Branch Mitigation Order/Groundwater Monitoring/Forms/Groundwater Sampling Sheet
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: Rogers 5960
ADWR No: 

Client: Freeport Copper Queen Branch
Date: 4/16/13
Weather: Sunny, windy
Sampler: V

WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bis):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft b.m.p):</td>
<td>139.97</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>X3=</td>
<td></td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
</table>

Pump On

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

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: WLO
# Groundwater Sampling Form

**Project No:** 055038  
**Task No:** 1  
**Well ID:** Rogers 303  
**ADWR No:**  
**Client:** Freeport Copper Queen Branch  
**Date:** 4/15/13  
**Weather:** Sunny, Windy  
**Sampler:** UNH

## WELL DATA

<table>
<thead>
<tr>
<th>Casing Diameter (in):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Water Level (ft bgl):</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
<td></td>
</tr>
</tbody>
</table>

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

## FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gph)</th>
<th>Total Discharge (gallons)</th>
<th>pH</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:04</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:14</td>
<td>5</td>
<td>8.5</td>
<td>42.5</td>
<td>7.49</td>
<td>24.3</td>
<td>693.9</td>
<td></td>
</tr>
<tr>
<td>13:18</td>
<td>9</td>
<td>&lt;1</td>
<td>~46.5</td>
<td>7.43</td>
<td>23.5</td>
<td>692.3</td>
<td></td>
</tr>
<tr>
<td>13:22</td>
<td>13</td>
<td>&lt;1</td>
<td>~60.5</td>
<td>7.57</td>
<td>23.8</td>
<td>698.0</td>
<td></td>
</tr>
</tbody>
</table>

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

## SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rogers 303</td>
<td>13:26</td>
<td>Poly</td>
<td>250mL</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

## 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:

---

N:/Projects/G & K/055038_Copper Queen Branch Mitigation Order/Groundwater Monitoring/Formal/Groundwater Sampling Sheet
**Groundwater Sampling Form**

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Rogers, E  
**ADWR No:**  
**Date:** 4/18/13  
**Weather:** Sunny, 60's  
**Sampler:** VNI

### WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bgs):</td>
<td>290</td>
<td></td>
</tr>
<tr>
<td>Casing Diameter (in):</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft bmg):</td>
<td>15.6-6.6</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>19.7 x 3 = 59.1</td>
<td></td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0041</td>
<td>10</td>
<td>10</td>
<td>100</td>
<td>7.43</td>
<td>26.5</td>
<td>435.8</td>
<td>Pump On</td>
</tr>
<tr>
<td>0951</td>
<td>20</td>
<td>10</td>
<td>200</td>
<td>7.55</td>
<td>84.2</td>
<td>433.1</td>
<td></td>
</tr>
<tr>
<td>1001</td>
<td>30</td>
<td>10</td>
<td>300</td>
<td>7.63</td>
<td>21.4</td>
<td>436.0</td>
<td></td>
</tr>
<tr>
<td>1011</td>
<td>40</td>
<td>10</td>
<td>400</td>
<td>7.58</td>
<td>21.5</td>
<td>431.9</td>
<td></td>
</tr>
<tr>
<td>1021</td>
<td>50</td>
<td>10</td>
<td>500</td>
<td>7.64</td>
<td>21.1</td>
<td>436.7</td>
<td></td>
</tr>
<tr>
<td>1031</td>
<td>60</td>
<td>10</td>
<td>600</td>
<td>7.63</td>
<td>21.3</td>
<td>433.5</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered</th>
<th>y/n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rogers, E</td>
<td>1035</td>
<td>Poly</td>
<td>250 ml</td>
<td>2</td>
<td>3000.0</td>
<td>NA</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### 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

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

**Additional Comments:**
**Groundwater Sampling Form**

Project No: 055038  
Client: Freeport Copper Queen Branch  
Date: 4/11/15  
Weather: Sunny, 70’s  
Sampler: WH

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bis):</th>
<th>312</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>20</td>
</tr>
<tr>
<td>Static Water Level (ft bmg):</td>
<td>299.72</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>18 x 3 = 54</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
<td>60</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1329 Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1334</td>
<td>5</td>
<td>4</td>
<td>26</td>
<td>7.25</td>
<td>22.1</td>
<td>877.4</td>
<td></td>
</tr>
<tr>
<td>1339</td>
<td>10</td>
<td>4</td>
<td>40</td>
<td>7.27</td>
<td>21.5</td>
<td>876.9</td>
<td></td>
</tr>
<tr>
<td>1344</td>
<td>15</td>
<td>4</td>
<td>60</td>
<td>7.26</td>
<td>21.9</td>
<td>876.8</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruiz</td>
<td>1349</td>
<td>Poly</td>
<td>250 mL</td>
<td>2</td>
<td>3000</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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: 055038
Task No: 
Well ID: 42\r\nwurz-12
Client: Freeport Copper Queen Branch
Date: 8/4/13
Weather: Sunny/90's
Sampler:

WELL DATA

<table>
<thead>
<tr>
<th>Casing Capacity</th>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Well Depth (ft bgs): 305
Casing Diameter (in): 6
Static Water Level (ft bmg): 129.60
Casing Volume (gal): \(2.58 \times 3 = 7.74\)
Total Volume Purged (gal): 770

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>15</td>
<td>105</td>
<td>165</td>
<td>7.58</td>
<td>22.2</td>
<td>615.8</td>
<td></td>
</tr>
<tr>
<td>1521</td>
<td>30</td>
<td>330</td>
<td>505</td>
<td>7.72</td>
<td>21.7</td>
<td>620.1</td>
<td></td>
</tr>
<tr>
<td>1530</td>
<td>45</td>
<td>495</td>
<td>715</td>
<td>7.67</td>
<td>21.8</td>
<td>622.6</td>
<td></td>
</tr>
<tr>
<td>1551</td>
<td>60</td>
<td>660</td>
<td>990</td>
<td>7.07</td>
<td>21.8</td>
<td>626.9</td>
<td></td>
</tr>
<tr>
<td>1600</td>
<td>40</td>
<td>770</td>
<td>1190</td>
<td>7.61</td>
<td>21.5</td>
<td>629.7</td>
<td></td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42\r\nwurz-12</td>
<td>1005</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

WATER LEVEL MEASUREMENT COLLECTION

\(\times\) Water level measurement collected.

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

WELL PURGING INFORMATION

\(\bigcirc\) 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 is off SW corner of house, under 2' x 3' x 2' box covered in roofing tiles. Measuring point is top of well seal. Water I purged from spigot near well head.
**Groundwater Sampling Form**

<table>
<thead>
<tr>
<th>WELL DATA</th>
<th>Casing Capacity</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Size (inches)</td>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**FIELD SAMPLING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**SAMPLE INFORMATION**

<table>
<thead>
<tr>
<th>Sample Collection Point</th>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WATER LEVEL MEASUREMENT COLLECTION**

- [ ] Water level measurement collected.
- [ ] No water level measurement collected. No access to wellhead/No port in wellhead
- [ ] No water level measurement collected. Obstruction in well.
- [ ] No water level measurement collected. Well is pumping.
- [ ] Other: **no sample, collect water level only**

**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: 

---

N:\Projects\G\K0256038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet 2013-05-16. xls
Groundwater Sampling Form

Project No: 055038
Task No: 1
Well ID: SEKHASON
ADWR No: 

WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Casing Capacity (gallons per linear foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Static Water Level (ft bgl): 250.85
Casing Volume (gal): x3 =

TOTAL VOLUME PURGED (gal):

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

FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

SAMPLE INFORMATION

Sample Collection Point:

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

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: WLO
Groundwater Sampling Form

Project No: 055038
Task No: 
Well ID: TM-10
ADWR No: 

Client: Freeport Copper Queen Branch
Date: 4/17/13
Weather: Sunny, Windy
Sampler: 

### WELL DATA

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Nominal Casing Capacity: 10" x 3 = 30" 0.408

Total Volume Purged (gal): Casing Volume = gallons/foot * water column (feet)

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/1</td>
<td></td>
<td>8.00</td>
<td>18.4</td>
<td>425.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/2</td>
<td></td>
<td>8.08</td>
<td>20.1</td>
<td>425.0</td>
<td></td>
<td></td>
<td>Slightly cloudy sediment</td>
</tr>
<tr>
<td>11/3</td>
<td></td>
<td>8.27</td>
<td>20.3</td>
<td>423.9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM-10</td>
<td>11/4</td>
<td>Poly</td>
<td>250ml</td>
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<td>300.0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

### 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: Wait 10 min for recharge between each reading.
Access w/ w-l bag from Jacob

Hand - Gusher
**Groundwater Sampling Form**

**Project No:** 055038  
**Task No:** 1  
**Well ID:** TVI 713  
**Client:** Freeport Copper Queen Branch  
**Date:** 4/10/13  
**Weather:** Sunny, 70°F  
**Sampler:**  

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bgs)</th>
<th>Casing Diameter (in)</th>
<th>Static Water Level (ft bmp)</th>
<th>Casing Volume (gal)</th>
<th>Total Volume Purged (gal)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Casing Capacity (gallons per Linear Foot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
</table>

### 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:

\(\text{Additional Comments: } W10\)
## Groundwater Sampling Form

**Project No:** 055038  
**Task No:** 1  
**Well ID:** TVI 875  
**Client:** Freeport Copper Queen Branch  
**Date:** 4/10/13  
**Weather:** Sunny, 70's  
**Sampler:** UNH

### WELL DATA

<table>
<thead>
<tr>
<th>Well Depth (ft bsl):</th>
<th>330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing Diameter (in):</td>
<td>8</td>
</tr>
<tr>
<td>Static Water Level (ft bsl):</td>
<td>x3 =</td>
</tr>
<tr>
<td>Casing Volume (gal):</td>
<td>1200</td>
</tr>
</tbody>
</table>

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.85</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

**Total Volume Purged (gal):** 4500

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

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1059</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1100</td>
<td>3</td>
<td>500</td>
<td>1500</td>
<td>7.21</td>
<td>21.3</td>
<td>897.6</td>
<td></td>
</tr>
<tr>
<td>1103</td>
<td>6</td>
<td>500</td>
<td>3000</td>
<td>7.32</td>
<td>21.2</td>
<td>911.6</td>
<td></td>
</tr>
<tr>
<td>1106</td>
<td>9</td>
<td>500</td>
<td>4500</td>
<td>7.35</td>
<td>20.9</td>
<td>907.6</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVI 875</td>
<td>111</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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:

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N:\Projects\G & K055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet
**Groundwater Sampling Form**

**Project No:** 055038  
**Client:** Freeport Copper Queen Branch  
**Task No:**  
**Well ID:** Weed  
**ADWR No:**  
**Date:** 4/10/13  
**Weather:** Sunny, Windy  
**Sampler:**  

### WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bsl)</td>
<td>320</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td></td>
</tr>
<tr>
<td>Static Water Level (ft bsl)</td>
<td></td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>$360$</td>
</tr>
</tbody>
</table>

### Casing Capacity

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): $360$

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (μS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:12</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>3</td>
<td>4</td>
<td>12</td>
<td>7.67</td>
<td>20.2</td>
<td>385.1</td>
<td></td>
</tr>
<tr>
<td>11:18</td>
<td>6</td>
<td>4</td>
<td>241</td>
<td>7.74</td>
<td>20.5</td>
<td>381.6</td>
<td></td>
</tr>
<tr>
<td>11:21</td>
<td>9</td>
<td>4</td>
<td>360</td>
<td>7.76</td>
<td>20.6</td>
<td>383.9</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed</td>
<td>1624</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>SO2,0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

### WATER LEVEL MEASUREMENT COLLECTION

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

### WELL PURGING INFORMATION

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

**Additional Comments:**
Groundwater Sampling Form

Project No: 055038
Client: Freeport Copper Queen Branch
Task No: 
Date: 4/17/13
Well ID: Weiskopf 802
Weather: Windy, 70s
ADWR No: 
Sampler: 

<table>
<thead>
<tr>
<th>WELL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft lbs): 205</td>
</tr>
<tr>
<td>Casing Diameter (in): 6</td>
</tr>
<tr>
<td>Static Water Level (ft BMP): 150.16</td>
</tr>
<tr>
<td>Casing Volume (gal): 73 x 3 = 219</td>
</tr>
<tr>
<td>Total Volume Purged (gal):</td>
</tr>
<tr>
<td>Casing Volume = gallons/foot * water column (feet)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIELD SAMPLING DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
</tr>
<tr>
<td>11:02</td>
</tr>
<tr>
<td>11:22</td>
</tr>
<tr>
<td>11:32</td>
</tr>
</tbody>
</table>

Pump Off

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

SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weiskopf 802</td>
<td>11:42</td>
<td>Poly</td>
<td>500 ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

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:

N:\Projects\G & K\055038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Final\Groundwater Sampling Sheet
**Groundwater Sampling Form**

| Project No: | 055038 | Client: Freeport Copper Queen Branch |
| Task No: | | Date: 4/17/13 |
| Well ID: | Weiskopf 9897 | Weather: Windy, 70's |
| ADWR No: | | Sampler: WJ |

### WELL DATA

| Well Depth (ft bgs): | 1030 |
| Casing Diameter (in): | 5 |
| Static Water Level (ft bmp): | 1491.80 |
| Casing Volume (gal): | $89.8 \times 3 = 269.4$ |

**Casing Capacity**

<table>
<thead>
<tr>
<th>Nominal Size (inches)</th>
<th>Gallons per Linear Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0.16</td>
</tr>
<tr>
<td>4</td>
<td>0.65</td>
</tr>
<tr>
<td>5</td>
<td>1.02</td>
</tr>
<tr>
<td>6</td>
<td>1.47</td>
</tr>
<tr>
<td>8</td>
<td>2.61</td>
</tr>
<tr>
<td>10</td>
<td>4.08</td>
</tr>
</tbody>
</table>

Total Volume Purged (gal): \[ \text{Casing Volume} = \text{gallons/foot} \times \text{water column (feet)} \]

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time</th>
<th>Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1531</td>
<td>Pump On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1549</td>
<td>15</td>
<td>15</td>
<td>2.25</td>
<td>7.78</td>
<td>21.8</td>
<td>393.4</td>
<td></td>
</tr>
<tr>
<td>1604</td>
<td>30</td>
<td>15</td>
<td>450</td>
<td>7.87</td>
<td>22.3</td>
<td>396.9</td>
<td></td>
</tr>
<tr>
<td>1619</td>
<td>45</td>
<td>15</td>
<td>475</td>
<td>7.85</td>
<td>22.4</td>
<td>396.7</td>
<td></td>
</tr>
<tr>
<td>1634</td>
<td>60</td>
<td>15</td>
<td>900</td>
<td>7.86</td>
<td>22.6</td>
<td>394.4</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weiskopf 9897</td>
<td>1638</td>
<td>Poly</td>
<td>250 ml</td>
<td>2</td>
<td>300.0</td>
<td>NA</td>
<td>y</td>
</tr>
</tbody>
</table>

### 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 1 well volume for parameters stabilized

Additional Comments:
## Groundwater Sampling Form

**Project No:** 055038  
**Task No:**  
**Well ID:** Zander  
**ADWR No:**  

### WELL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Depth (ft bgs)</td>
<td>280</td>
</tr>
<tr>
<td>Casing Diameter (in)</td>
<td>4</td>
</tr>
<tr>
<td>Static Water Level (ft bmg)</td>
<td>151,36</td>
</tr>
<tr>
<td>Casing Volume (gal)</td>
<td>189 x 3 = 567</td>
</tr>
</tbody>
</table>

### FIELD SAMPLING DATA

<table>
<thead>
<tr>
<th>Time, Elapsed Time (min)</th>
<th>Discharge Rate (gpm)</th>
<th>Total Discharge (gallons)</th>
<th>pH (SU)</th>
<th>Temp (°C)</th>
<th>Specific Conductance (µS/cm)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1249</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1259</td>
<td>10</td>
<td>110</td>
<td>7.48</td>
<td>21.5</td>
<td>432.3</td>
<td></td>
</tr>
<tr>
<td>1309</td>
<td>20</td>
<td>220</td>
<td>7.59</td>
<td>21.1</td>
<td>435.7</td>
<td></td>
</tr>
<tr>
<td>1319</td>
<td>30</td>
<td>330</td>
<td>7.60</td>
<td>20.7</td>
<td>433.6</td>
<td></td>
</tr>
<tr>
<td>1329</td>
<td>40</td>
<td>440</td>
<td>7.66</td>
<td>21.0</td>
<td>434.7</td>
<td></td>
</tr>
<tr>
<td>1339</td>
<td>50</td>
<td>550</td>
<td>7.65</td>
<td>20.8</td>
<td>436.7</td>
<td></td>
</tr>
</tbody>
</table>

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

### SAMPLE INFORMATION

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Time</th>
<th>Container Type</th>
<th>Volume</th>
<th>No. of Containers</th>
<th>Analysis Method</th>
<th>Preservative</th>
<th>Filtered (y/n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zander</td>
<td>1349</td>
<td>Poly</td>
<td>250ml</td>
<td>2</td>
<td>300°C</td>
<td>NA</td>
<td>Y</td>
</tr>
</tbody>
</table>

### 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:**

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N:\Project\G & K\005038_Copper Queen Branch Mitigation Order\Groundwater Monitoring\Forms\Groundwater Sampling Sheet