1290077

Rico Surface and Groundwater Sampling
Supplemental Surface Water Quality Monitoring
Rico, Colorado
Data Summary Report

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April 2013

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1.0 Introduction

In accordance with the Rico Sampling and Analysis Plan for Supplemental Surface and Groundwater Quality Monitoring at Rico, CO prepared by AECOM, dated November 2010, the surface and groundwater sampling event was completed on April 2nd – 25th, 2013. Sampling was completed by Anderson Engineering Co. Inc., by technicians who are familiar with the Rico sites and the BP Control of Work Management System. Surface and groundwater samples were collected from prescribed locations within the St. Louis settling pond system and at the system discharge (DR-6) to the Dolores River (collectively referred to as the St. Louis pond system), and previously sampled locations along the Dolores River above, at and below the St. Louis pond system. Figures 1, 2, and 3 in Appendix A illustrate the locations of the various points sampled monthly. Sample results have been summarized and laboratory analytical results are attached with quality control documentation.

2.0 Field Sampling

2.1 Sampling Frequency

The sampling period represented by this sampling event is for the month of April of 2013. Sampling will be performed on a monthly basis through at least the end of 2013.

2.2 Water Quality and Flow Measurement Sampling Locations

Surface water and groundwater samples were collected from the locations described on Table 1 and shown on Figures 1, 2, and 3 in Appendix A. In the fall of 2011, twelve (12) new monitoring wells were drilled in the vicinity of the recently constructed interim drying facility. Beginning November 2011, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. In the fall of 2012, eight (8) new monitoring wells were drilled throughout the St. Louis Ponds site. Beginning November 2012, those wells were sampled and will continue to be sampled monthly along with the other sampling locations mentioned. Additionally, eight (8) historic groundwater wells are sampled on a monthly basis.

The Dolores River was sampled above the St. Louis pond system, and below the adit outfalls downstream of the reclaimed Silver Swan Mine area. The river was also sampled at the USGS gaging station downstream of the Silver Swan site.

TABLE 1 - Sample Location Descriptions

SITE ID	SITE LOCATION / DESCRIPTION
Surface Water Locations	
DR-1	Cross-section on the Dolores River approximately 1000 feet North of Pond 18.
DR-2	Cross-section on the Dolores River approximately 150 feet North of the system outfall.
DR-3	St. Louis Tunnel discharge at adit entrance. Sampling location is at the parshll flume located approximately 50 ft west of the cinder block structure at the former adit entrance.

DR-4	Discharge of Pond 15. The sampling location is at the outlet of the upper discharge pipe located on the midpoint of the Pond 15 south embankment.
DR-5	Discharge of Pond 8. The sampling location is at the inlet of the discharge spillway located at the southwest corner of Pond 8.
DR-6	St. Louis settling ponds system outfall to the Dolores River (previous permit Outfall 002). Sample location is at installed 9" parshall flume.
DR-7	Dolores River below St. Louis settling ponds system outfall. Sampling/flow measurement location is located just off the entrance road to the St. Louis ponds site where the Dolores River is adjacent to the entrance road. The site is located approximately 75 feet downstream of a large bend in the river that first brings the Dolores adjacent to the entrance road.
DR-4-SW	Dolores River below Silver Swan. Sampling/flow measurement location is on the Dolores River below the Silver Swan site just downstream of a bend in the river and below a cemetery on the east bank.
DR-G	Located approximately 3.5 miles downstream of the Silver Swan site, at the USGS gauging station #09165000 immediately downstream of the bridge at this location.
Groundwater Locations	
GW-1	Well is located on the north end of the site, approximately 1000 feet north of the northern edge of Pond 18 and about 75 feet northeast of DR-1
GW-3	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road.
GW-4	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.
GW-7	Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 Shallow MW-1 Deep	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-2 Shallow MW-2 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond.
MW-3 Shallow MW-3 Deep	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment.
MW-4 Shallow MW-4 Deep	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road.
MW-5 Shallow	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2).

MW-5 Deep	
MW-6 Shallow MW-6 Deep	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road
MW-101	Well is located approximately 200 feet south of the lime plant building in the large open clearing within the St. Louis Road loop.
MW-102	Well is located approximately 150 feet southeast of well GW-7 at the point that the access road splits in two directions.
MW-103	Well is located at the southwest corner of Pond 7 on the flood control dike adjacent to the Dolores River.
MW-104	Well is located approximately midway along the west flood control dike of Pond 9.
MW-202	Well is located approximately 25 feet southeast of the cinder block structure at the former adit entrance.
MW-204	Well is located approximately 200 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.
P13-102	Well is located at approximately the southeast end of the newly constructed dike at the southwest corner of Pond 13.
P13-103	Well is located approximately midway along the newly constructed dike at the south corner of Pond 13.
AT-2	Angle borehole casing is located approximately 220 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.

2.3 Sampling Station Conditions and Descriptions

The sampling requirements and stations are described in detail below, as well as the conditions at each station for this sampling period. Samples collected were collected per protocols identified in the Sampling and Analysis Plan (SAP). Flow measurements were collected per protocols identified in the SAP.

DR-1. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-2. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-3. Flow measurement collected monthly by an installed 9” flume and water level measurement devices at the sampling location. Manual measurement collected on 4-25-13 at 10:20 am.

DR-4. Sample location fully accessible. Sample collected from upper drain pipe inlet in Pond 15. Flow in both pipes estimated by collecting volumes of water and measuring collection times.

DR-5. Sampling location fully accessible. Sample collected at spillway. Flow measurements collected by flowmeter at spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Flows estimated at spillway to be 90% of total flow.

DR-6. Flow measurement by an installed 9" flume and water level measurement devices at the sampling location. Manual measurement collected on 4-25-13 at 9:15 pm.

DR-7. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-4-SW. Sampling location fully accessible. Grab sample collected from east bank of river and composite sample collected from stream cross section. Flow measurements were collected by flowmeter.

DR-G. Sampling location fully accessible. Grab sample collected from east bank of river. Flow measurements were collected by flowmeter.

Monitoring Wells. All monitoring wells were sampled by use of a bailer, and field measurements were taken at the time of sampling, per protocols identified in the SAP. Depth measurements were also taken at this time. For the April 2013 sampling period, MW-2 Shallow, MW-3 Shallow, and MW-202 were dry.

2.4 Simultaneous Operations

During the month of April 2013, other projects were occurring simultaneously at the St. Louis Ponds site.

- Operation of the pilot scale wetland test was occurring during the sampling period. Detrimental effects from this operation are little to none.

3.0 Sampling and Analysis Parameters and Methods

All samples were collected as grab or composite samples. Samples were collected from well-mixed locations, which are representative of conditions within the flow stream. Groundwater samples are purged according to protocols identified in the SAP. Lab-certified plastic bottles were used to collect sample water for analyses. Clean hands, dirty hands procedures were followed throughout the sampling. For quality control purposes, one duplicate sample was collected for every 10 samples collected and one field blank was included with the water samples being submitted to the laboratory for analysis. Composite river samples were collected in accordance with the technical standard operating procedure found in Appendix L.

Lab-certified plastic bottles were used to collect all water samples. Sample water was first collected in clean plastic jugs and field parameters were measured at the time of sample collection. Sample water was then placed in the sampling bottles soon thereafter per protocols identified in the SAP. The following sample bottles were used for collection and analysis (all samples collected without filtration unless otherwise indicated):

- One (1) 500mL HDPE bottle, unpreserved, for alkalinity, Total Dissolved Solids (TDS), Total Suspended Solids (TSS), chloride and sulfate analysis
- One (1) 250mL HDPE bottle, unpreserved, for salinity analysis
- One (1) 250mL HDPE bottle, preserved with HNO_3, for total metals, silica, and water hardness analysis
- One (1) 250mL HDPE bottle, preserved with HNO_3, for dissolved metals analysis. This sample is filtered in the field through a 0.45µm filter.

- One (1) 250mL HDPE bottle, preserved with HNO_3, for potentially dissolved metals analysis
- One (1) 250 mL HDPE bottle, preserved with NaOH and Zn Acetate, for sulfide analysis.
- One (1) 250 mL HDPE bottle, preserved with NaOH, for cyanide analysis
- One (1) 250 mL amber glass bottle, preserved with H_2SO_4, for Total Organic Carbon (TOC) and nitrate analysis

Field parameters were measured at the time of sample collection. Field measurement data for pH, temperature, electrical conductivity, dissolved oxygen, and Oxydation-Reduction Potential were recorded using a Hanna Instruments HI 9828 Multiparameter Meter and ExTech ExStik EC500 meter (for recording pH, electrical conductivity, and temperature of groundwater well purge water), and results were logged in the field log book. Results of field measurements for all samples collected on site can be found in Tables 3A – 3G in Appendix B. Weather parameters including temperature and precipitation were obtained and documented in the Daily Toolbox Meeting Record.

All sample bottles were labeled to identify sample number, date and time of collection, type of analysis, and appropriate preservative. In addition, sample analysis/chain of custody forms were completed and processed at the time of sample collection. Original chain of custody forms are signed, dated, and placed in the sample container prior to sealing the container for shipment.

Water samples were kept in cooled containers and sent to the analytical laboratory. Samples were submitted to Pace Analytical Laboratories in Lenexa, Kansas for analysis by analytical procedures listed on Table 2. Analysis was performed according to methods specified in 40 CFR, Part 136 or other methods approved by the EPA. Laboratory methods and reporting limits for all parameters are presented in Table 2. Laboratory results and supporting documentation including quality assurance results are contained in the Appendix C and Appendix D of this report. Results are summarized in Tables 4A – 4D in Appendix B of this report.

TABLE 2 - Analytical Procedures Summary

PARAMETER	DETECTION LIMIT (MDL)	REPORTING LIMIT (RL)	METHOD
FIELD PARAMETERS			
Dissolved Oxygen (ppm)	+/- 1.5% of reading	+/- 1.5% of reading	SM 4500-OG
Electrical Conductivity (mS/cm)	+/- 1% of reading	+/- 1% of reading	EPA 120.1
Temperature (°C)	+/- 0.15° C	+/- 0.15° C	Standard Method 2550
ORP (Oxidation Reduction Potential, mV)	+/- 1.0 mV	+/- 1.0 mV	Ag/AgCl Probe
pH (Standard pH Units)	+/- 0.02 pH	+/- 0.02 pH	EPA 150.2
NON-METALS			
Alkalinity (mg/L as $CaCO_3$)	20 mg/L	20 mg/L	SM 2320B
Chloride (mg/L)	1.0 mg/L	1.0 mg/L	EPA 300.0
Cyanide (μg/L as CN)	0.0021 mg/L	0.005 mg/L	SM 4500-CN-E
Hardness (mg/L as $CaCO_3$)	0.036 mg/L	0.071 mg/L	SM 2340B
Nitrogen, NO2 plus NO3 (mg/L)	0.022 mg/L	0.1 mg/L	EPA 353.2
Salinity (mg/L as dissolved solids)	6 mg/L	6 mg/L	SM 2510B (calculated)
Silica	0.027 mg/L	0.054 mg/L	EPA 200.8
Sulfate (mg/L as SO4)	0.15 mg/L	1.0 mg/L	EPA 300.0
Sulfides (mg/L)	0.018 mg/L	0.05 mg/L	4500-S-2 D
Total Dissolved Solids (mg/L as TDS)	5.0 mg/L	5.0 mg/L	SM 2540C
Total Organic Carbon (mg/L)	0.072 mg/L	0.5 mg/L	SM 5310C
Total Suspended Solids (mg/L as TSS)	5.0 mg/L	5.0 mg/L	SM 2540D
TOTAL, DISSOLVED, AND POTENTIALLY DISSOLVED METALS*			
Aluminum (μg/L as Al)	2.00 μg/L, 6.35 μg/L	4 μg/L, 50 μg/L	EPA 200.8, EPA 200.8
Antimony (μg/L as Sb)	0.100 μg/L, 0.03 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Arsenic (μg/L as As)	0.138 μg/L, 0.05 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Barium (μg/L as Ba)	0.150 μg/L, 0.08 μg/L	0.3 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Beryllium (μg/L as Be)	0.092 μg/L, 0.05 μg/L	0.2 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Cadmium (μg/L as Cd)	0.028 μg/L, 0.05 μg/L	0.08 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Calcium (μg/L as Ca)	10.000 μg/L, 10.35 μg/L	20 μg/L, 100 μg/L	EPA 200.8, EPA 200.7
Chromium (ug/l as Cr)	0.094 μg/L, 0.07 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Cobalt (ug/l as Co)	0.250 μg/L, 0.08 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Copper (μg/L as Cu)	0.184 μg/L, 0.12 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Iron (μg/L as Fe)	10.00 μg/L, 2.95 μg/L	50 μg/L, 50 μg/L	EPA 200.8, EPA 200.8
Lead (μg/L as Pb)	0.018 μg/L, 0.03 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Magnesium (μg/L as Mg)	2.31 μg/L, 6.48 μg/L	5 μg/L, 50 μg/L	EPA 200.8, EPA 200.7
Manganese (μg/L as Mn)	0.250 μg/L, 0.14 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Mercury (μg/L as Hg)	0.1 μg/L, 0.053 μg/L	0.2 μg/L, 1 μg/L	EPA 245.1, EPA 245.1
Molybdenum (μg/L as Mo)	0.069 μg/L, 0.12 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Nickel (μg/L as Ni)	0.151 μg/L, 0.07 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Potassium (μg/L as K)	5.24 μg/L, 44.38 μg/L	20 μg/L, 500 μg/L	EPA 200.8, EPA 200.7
Selenium (ug/l as Se)	0.094 μg/L, 0.14 μg/L	0.5 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Silver (ug/L as Ag)	0.040 μg/L, 0.01 μg/L	0.5 μg/L, 0.5 μg/L	EPA 200.8, EPA 200.8
Sodium (μg/L as Na)	10.40 μg/L, 21.68 μg/L	50 μg/L, 500 μg/L	EPA 200.8, EPA 200.7
Thallium (μg/L as Tl)	0.019 μg/L, 0.02 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Vanadium (μg/L as V)	0.037 μg/L, 0.11 μg/L	0.1 μg/L, 1 μg/L	EPA 200.8, EPA 200.8
Zinc (μg/L as Zn)	1.00 μg/L, 1.04 μg/L	5 μg/L, 10 μg/L	EPA 200.8, EPA 200.8

*Limits and methods for metals displayed in following format: Total and Dissolved Metals, Potentially Dissolved Metals

4.0 Flow Measurement Methods

Flow velocity measurements were taken at the river sampling locations where accessible. Flow measurements were not collected at areas where ice and snow buildup or high, fast flows prohibited safe access. The flow measurements obtained this sampling period are described in Section 2.3. Flow measurements were collected at DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7, DR-4-SW, and DR-G. Refer to Figures 4 through 9 in Appendix E for Dolores River cross sections. The flowrates are presented on Tables 3A, 3D, 3E, 3F, and 3G in Appendix B.

The St. Louis tunnel flow (DR-3) and St. Louis pond discharge (DR-6) currently have Parshall flumes installed. Flow measurements can be determined at these flumes when the depth of flow is known at a particular point. In order to continuously monitor and measure the depth of flow, depth measurement devices were installed on May 11th, 2011 and May 12th, 2011 at both the north and south flumes. An STI Ultrasonic IRU-5180 automated water level detector was installed at the north Parshall flume. In order to obtain further flow data, an OTT PLS submersible pressure transducer was installed at the north flume in December 2011. In January 2012, it was decided that the OTT PLS would be used exclusively at the north flume to report flow data, and that the ultrasonic meter would remain only as a backup flow measurement system. This was due in large part to the stability and uniformity observed in the data from the OTT PLS, as opposed to the ultrasonic meter, which exhibited greater instability and variability in the readings that the OTT PLS. The south flume has a submersible pressure transducer called the OTT Orpheus Mini. It records deviations from a pre-programmed depth of air space from the top edge of the flume down to the water level. Knowing then the total depth of the flume, the depth of flow can be determined. The post processed data for the OTT PLS, the STI Ultrasonic IRU-5180, and the OTT Orpheus Mini are given in Appendix I, J, and K, respectively.

During the month of April 2013, technical issues caused power loses periodically throughout the month, specifically during certain brief hours on April 9th – 14th and 27th – 30th. Usable data was not recorded for certain hours during these time intervals.

5.0 Analytical Results

The results of the laboratory analysis are summarized on Tables 4A – 4D in Appendix B. The data is organized by sample location. The Pace Lab reports for all results are contained in Appendix C.

6.0 Quality Control

In addition to the standard laboratory Quality Control (QC), field QC samples for this sampling event included one field duplicate for every 10 samples collected and a Field Blank (FB).

6.1 Field QC

A field duplicate water sample was obtained for every 10 samples collected. Field duplicate samples are assigned the Sample IDs DR-8, DR-9, DR-10, DR-11, and so forth for as many samples as are collected. During the April 2013 sampling period these duplicate samples were collected at stations DR-3 (DR-8), GW-1 (DR-9), MW-103 (DR-10), and DR-6 (DR-11). During sample collection, the duplicate sample bottles were filled simultaneously from the discharge stream

or source of water. The duplicate sample was submitted to the analytical laboratory as “blind duplicate” samples.

Tables 5A – 5D in Appendix B compare the analytical results for all parameters from all duplicate sample collected and present the Relative Percent Difference (RPD). The RPD for aqueous samples should be +/- 20%. The trends in the results indicate that duplicate samples of groundwater wells had a high number of parameters outside of the +/- 20% range.

A Field Blank (FB) was collected by processing and analyzing a bottle of distilled water in the field in the same manner as any other sample. The FB was analyzed for the same constituents as the other samples. The FB had concentrations below the reporting limit for all metals except for a small number of total, dissolved, and potentially dissolved metals. The pH was slightly above neutral, the Electrical Conductivity (EC) was very low, it showed a non-detectable level of alkalinity, and a non-detectable level of TDS.

6.2 Laboratory QC

The laboratory control sample (LCS), method blank, matrix spike, and matrix spike duplicate sample results were all within the established limits of concentration, percent recovery, and relative percent difference, with several minor exceptions. Please refer to the Laboratory QC Results in Appendix D for exceptions and for a full QC report.

Appendix A

Sampling Location Maps

General Notes

SCALE IN FEET
0 175 350

No.	Revision/Issue	Date

BP

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RICO WATER SAMPLING

NORTHERN ST. LOUIS PONDS
SAMPLING LOCATIONS

RICO,
COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	MAD

Project	Sheet
Date 22-Oct-12	1
Scale 1" = 350'	

1

NORTHERN ST. LOUIS PONDS SAMPLING LOCATIONS

SCALE - 1" = 350'

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E:\AutoCAD drawing\Rico 2012 sampling location map.dwg

2 SOUTHERN ST. LOUIS PONDS SAMPLING LOCATIONS

SCALE - 1" = 350'

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General Notes

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0 175 350

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RICO WATER SAMPLING

SOUTHERN ST. LOUIS PONDS
SAMPLING LOCATIONS

RICO,
COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	MAD

Project	Sheet
Date 22-Oct-12	2
Scale 1" = 350'	

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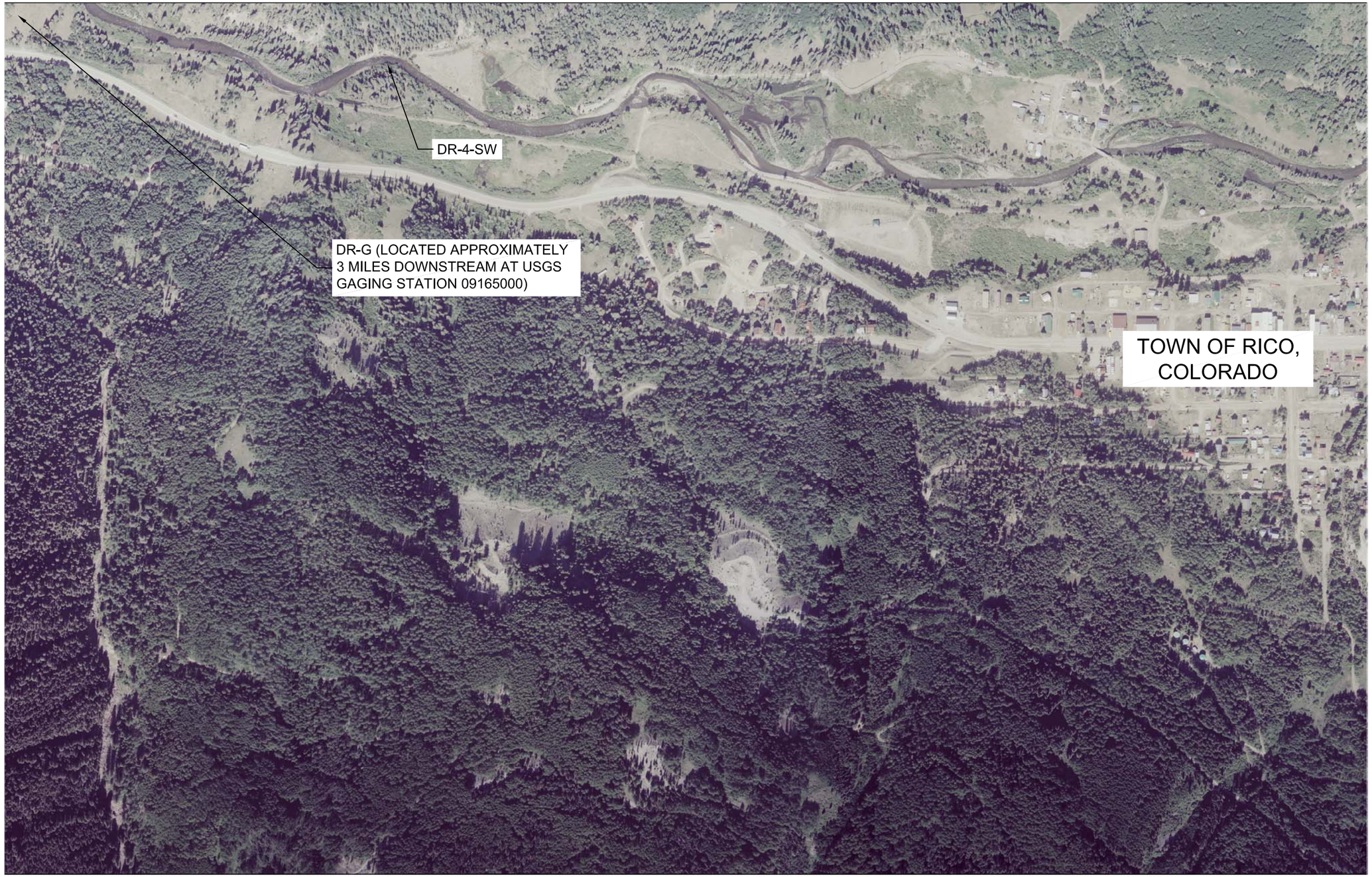

3 **SAMPLING LOCATIONS SOUTH OF RICO, CO**

SCALE - 1" = 500'

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General Notes

SCALE IN FEET
0 250 500

No.	Revision/Issue	Date

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RICO SURFACE WATER SAMOPLING

SAMPLING LOCATIONS SOUTH OF RICO, CO

RICO, COLORADO

DRAWN BY:	MAD
ENGINEER:	MAD
APPROVED:	CES

Project	Sheet 3
Date 5-Apr-12	
Scale 1" = 500'	

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Appendix B

Data Tables

TABLE 3A - Surface Water Location Sampling Field Data and Station Information Summary, April 2013

			Field Measurements							GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Well Casing Elevation (ft)	Well Water Elevation (ft)	Northing	Easting	Stream Cross section area (ft^2)	Flowrate cfs / gpm			
DR-1	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.06	0.40	0.291	8.55	-68.0	NA	NA	1389970.4600	2267573.6490	25.3	42.99		19293	Cross section on the Dolores River above St. Louis settling pond system (approximately 800 ft north of the northern edge of Pond 18). Flow measurements were collected by flowmeter.
DR-2	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.78	-0.11	0.345	8.53	-74.7	NA	NA	1386660.9610	2267971.4630	28.10	25.70		11536	Cross section on the Dolores River, approximately 150 ft north of system outfall. Flow measurements were collected by flowmeter.
DR-3	4/25/2013	B. Loomis	7.13	16.98	1.422	1.59	-47.1	NA	NA	1388963.0808	2268004.6974	NA	Ultrasonic	1.11	498.17	St Louis adit discharge. Flow measurement by installed Parshall Flume. Due to winter storm activity in April, equipment at north flume suffered several power failures and data could not be obtained during some portions of the month. Manual measurement collected on 4/25/13 at 10:20 am.
													Transducer	1.11	498.17	
													Manual	1.11	498.2	
DR-4	4/25/2013	B. Loomis	7.95	12.87	1.454	2.49	-42.8	NA	NA	1388153.6284	2267799.1579	NA	0.985		442.1	Pond 15 discharge. Flow measurements in both discharge pipes estimated by collecting volumes of water and measuring collection times.
DR-5	4/24/2013	B. Loomis	7.81	11.96	1.472	4.57	-46.6	NA	NA	1387273.4503	2268024.8524	0.96	0.969		434.9	Pond 8 discharge. Flow measurements by flowmeter at spillway. Due to the shallow water and multiple paths, accurate flow measurements could not be determined for this sampling location and period. Flows estimated at spillway to be 90% of total flow.
DR-6	4/25/2013	B. Loomis	7.57	12.30	1.506	2.03	-48.5	NA	NA	1386431.4984	2267964.5711	NA	Transducer	0.77	346	Outfall to Dolores River. Flow measurement by installed Parshall Flume. Water level by OTT Orpheus Mini submersible pressure transducer. Manual flow measurement collected on 4/25/13 at 9:15 am.
													Manual	0.918	412.0	
DR-7	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.34	0.19	0.489	8.54	-56.6	NA	NA	1385880.1050	2267983.4510	23.7	34.82		15629	Cross section on the Dolores River, approximately 500 ft below St. Louis settling pond system outfall. Flow measurements were collected by flowmeter.
DR-4-SW	4/16/2013	T. Barbee, T. Barbee	8.22	7.48	0.429	5.80	-61.1	NA	NA	1379176.1190	2266285.0850	24.1	40.8		18327	Cross section on the Dolores River approximately 100 below the Silver Swan site. Flow measurements were collected by flowmeter.
DR-G	4/16/2013	T. Barbee, T. Barbee	9.85	9.29	0.402	6.56	-112.4	NA	NA	1364029.7850	2258752.9060	25.6	48.6		21825	Cross section on the Dolores River at USGS gauging station #09165000, approximately 3.5 miles downstream of the Silver Swan site. Flow measurements were collected by flowmeter.

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TABLE 3B - Groundwater Well Sampling Field Data and Station Information Summary, April 2013

			Field Measurements							GPS Location (Colorado State Plane NAD83)		Flow Data			Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Well Casing Elevation (ft)	Well Water Elevation (ft)	Northing	Easting	Stream Cross section area (ft^2)	Flowrate cfs / gpm		
GW-1	4/3/2013	T. Thacker	7.66	7.08	0.358	9.55	-62.1	8840.13	8838.67	1390006.0210	2267642.6870	NA	NA	NA	Located on the north end of the site, approximately a quarter mile north of the northern edge of Pond 18.
GW-3	4/3/2013	T. Thacker	7.45	7.74	0.826	5.22	-52.2	8836.68	8824.17	1389221.9930	2267708.3940	NA	NA	NA	Located approximately 200 feet north of the northern edge of pond 18, and approximately 60 feet west of the main access road. Sample collected over two days.
GW-4	4/2/2013	T. Thacker	7.36	6.18	0.670	0.38	-109.5	8826.79	8816.68	1388790.0720	2267553.5420	NA	NA	NA	Located on the western flood dike of Pond 18, approximately midway along the dike.
GW-5	4/2/2013	T. Thacker	7.24	8.15	1.489	0.23	-109.1	8839.52	8817.92	1388802.0650	2267911.8020	NA	NA	NA	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1.
GW-6	4/16/2013	T. Barbee	7.44	11.76	1.926	0.81	-86.6	8837.45	8816.91	1388589.3950	2267922.5090	NA	NA	NA	Located on the middle of the former Pond 17 area, or on the western edge of the south dike of the newly constructed drying cell 1.
GW-7	4/2/2013	B. Loomis	6.66	9.76	1.822	2.16	-83.2	8840.00	8817.11	1388611.4370	2268158.0170	NA	NA	NA	GW-7 Located on the eastern edge of the access road directly across from the former Pond 17, or directly across from the newly constructed drying cell 2.
EB-1	4/17/2013	T. Thacker, T. Barbee	7.95	8.74	1.988	0.16	-133.6	8839.86	8818.81	1388792.4420	2267916.9080	NA	NA	NA	Located on the northern edge of the former Pond 17 area, or on the northern dike of the newly constructed drying cell 1. It is within ten feet of GW-5.
EB-2	4/17/2013	T. Barbee	7.67	7.49	3.843	0.00	-138.0	8829.84	8813.69	1388306.1480	2267920.2500	NA	NA	NA	Located on the southern portion of the former Pond 16 area, or on the western edge of the south dike of the newly constructed drying cell 3.
MW-1 SHALLOW	4/17/2013	T. Barbee, T. Thacker	9.19	3.83	1.374	2.80	-39.7	8810.87	8804.30	1387826.7470	2267944.5160	NA	NA	NA	Both wells are located about 4 feet apart on the western embankment of Pond 13 at the division between Pond 11 and Pond 12.
MW-1 DEEP	4/24/2013	B. Loomis	7.41	11.68	1.414	2.32	-30.6	8810.85	8801.96	1387829.4070	2267940.5680	NA	NA	NA	
MW-2 SHALLOW	4/17/2013	CNM; Not enough water to sample						8810.23	8800.24	1387829.7580	2267759.0810	NA	NA	NA	Both wells are located about 4 feet apart on the western flood embankment of Pond 12, about mid-way along the pond. MW-2 SHALLOW did not have enough water to sample.
MW-2 DEEP	4/17/2013	T. Thacker, T. Barbee	8.78	6.04	1.406	1.66	-101.3	8810.21	8800.36	1387836.0950	2267756.0910	NA	NA	NA	
MW-3 SHALLOW	4/17/2013	CNM; Not enough water to sample						8819.57	8810.40	1388308.0910	2267603.5420	NA	NA	NA	Both wells are located about 4 feet apart on the western flood embankment of Pond 15, on the southern half of the embankment. MW-3 SHALLOW did not have enough water to sample.
MW-3 DEEP	4/17/2013	T. Thacker, T. Barbee, T. Barbee	9.14	7.62	1.472	0.00	-123.0	8819.72	8810.16	1388313.2060	2267601.6050	NA	NA	NA	
MW-4 SHALLOW	4/17/2013	T. Barbee	8.28	7.55	1.282	2.12	-70.0	8816.83	8800.44	1387836.9670	2268221.9370	NA	NA	NA	Both wells are located about 4 feet apart on the southern embankment of Pond 13, approximately 60 west of the main east access road. pH value higher than expected, possibly due to slight degredation of pH probe. Replacement probe already on order.
MW-4 DEEP	4/17/2013	T. Thacker	6.48	8.77	1.620	1.88	-18.9	8816.77	8800.44	1387839.1320	2268224.8950	NA	NA	NA	
MW-5 SHALLOW	4/16/2013	T. Thacker, T. Barbee	5.56	9.37	3.583	0	-45.6	8830.95	8815.17	1388369.7050	2267814.3980	NA	NA	NA	Both wells are located about 4 feet apart on the western dike of drying cell 3 (refer to Figure 2). pH value higher than expected, possibly due to slight degredation of pH probe. Replacement probe already on order.
MW-5 DEEP	4/16/2013	T. Thacker	7.77	11.61	1.902	1.25	-81.7	8830.73	8813.93	1388374.5740	2267813.8150	NA	NA	NA	
MW-6 SHALLOW	4/17/2013	T. Barbee, T. Barbee, T. Thacker	6.83	8.49	2.377	0.58	-112.7	8830.58	8808.24	1388166.1000	2268148.1000	NA	NA	NA	Both wells are located about 4 feet apart on northern embankment of Pond 13, approximately 75 feet west of the main east access road.
MW-6 DEEP	4/17/2013	T. Barbee, T. Thacker	6.25	9.39	1.835	1.21	-94.3	8830.11	8807.81	1388165.5290	2268153.3270	NA	NA	NA	
MW-101	4/2/2013	B. Loomis	6.44	10.41	1.864	0.43	-93.5	8845.417	8818.42	1388742.4460	2268096.7400	NA	NA	NA	Located east of Drying Cells 1 / 2 boundary dike, inside the St Louis Access road loop, south of the St. Louis lab bldg.
MW-102	4/2/2013	T. Thacker	6.88	9.65	1.239	0.70	-90.1	8841.30	8817.73	1388482.8360	2268230.4920	NA	NA	NA	Located east of Drying Cell 4, in the St Louis Access road at the south end of the road loop.
MW-103	4/24/2013	B. Loomis	6.60	9.30	1.656	0.79	-31.3	8797.799	8791.24	1387371.9920	2268003.3380	NA	NA	NA	Located on the western flood embankment of Pond 9, approximately 175 feet south of the north west corner of Pond 9.
MW-104	4/24/2013	B. Loomis	7.52	9.56	1.479	2.11	-39.1	8785.60	8781.77	1390006.0210	2267642.6870	NA	NA	NA	Located on the western flood embankment between Ponds 6 and 7.
MW-202	4/24/2013	CNM; Not enough water to sample						8859.206	8825.61	1388999.6490	2268195.9780	NA	NA	NA	Located approximately 30 feet south of the remnant portal structure of the St. Louis Adit discharge. Well did not have enough water to sample.
MW-204	4/3/2013	T. Thacker	6.75	12.16	1.385	1.82	-53.4	8865.95	8850.62	1389122.4820	2268373.7870	NA	NA	NA	Located west of collapsed St. Louis adit base, approximately 30 feet west of AT-2.
P13-102	4/17/2013	T. Barbee	8.64	6.47	1.968	0	-137.2	8810.643	8800.52	1387785.4540	2268076.6470	NA	NA	NA	Located on Pond 13 dike near southeast corner of pond.
P13-103	4/17/2013	T. Barbee	7.02	4.77	1.694	0.00	-76.6	8811.46	8801.35	1387856.4350	2267994.0830	NA	NA	NA	Located on Pond 13 causeway just north of the dike.
AT-2	4/3/2013	T. Thacker	7.50	13.66	1.088	1.58	-95.2	8866.206	8854.36	1389125.5680	2268405.5140	NA	NA	NA	Angle borehole casing is located approximately 220 feet east of the cinder block structure at the former adit entrance, adjacent to the collapsed tunnel.

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TABLE 3C - Quality Control Samples Field Data and Station Information Summary, April 2013

			Field Measurements							GPS Location (Colorado State Plane NAD83)		Flow Data			Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Well Casing Elevation (ft)	Well Water Elevation (ft)	Northing	Easting	Stream Cross section area (ft^2)	Flowrate cfs / gpm		
Duplicate Samples															
DR-8	4/25/2013	B. Loomis	7.07	17.72	1.412	1.68	-43.6	NA	NA	NA	NA	NA	NA	NA	Duplicate of DR-3.
DR-9	4/3/2013	T. Thacker	7.79	7.10	0.362	9.98	-69.1	NA	NA	NA	NA	NA	NA	NA	Duplicate of GW-1.
DR-10	4/24/2013	B. Loomis	6.58	10.17	1.680	0.55	-38.0	NA	NA	NA	NA	NA	NA	NA	Duplicate of MW-103.
DR-11	4/25/2013	B. Loomis	7.47	9.81	1.492	2.26	-45.7	NA	NA	NA	NA	NA	NA	NA	Duplicate of DR-6
Field Blanks															
FB	4/25/2013	B. Loomis	8.20	9.88	0.003	4.10	-61.9	NA	NA	NA	NA	NA	NA	NA	Field blank

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Table 3D - DR-1 Cross Section Composite Sampling Field Data and Flow Information Summary, April 2013

Sample Location	Date of Sample Collection	Field Technicians	Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
			pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.00	0.40	0.269	8.42	-66.6	1389969.6333	2267568.9509	4	2.80	4.80	2153	
COMPARTMENT 2	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.04	0.08	0.294	8.61	-69.4	1389968.8232	2267565.0338	4	7.20	22.43	10065	
COMPARTMENT 3	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.03	0.11	0.295	8.63	-70.4	1389968.0132	2267561.1167	4	6.50	10.76	4829	
COMPARTMENT 4	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.02	0.11	0.295	8.64	-70.9	1389967.2031	2267557.1996	4	5.30	3.12	1402	
COMPARTMENT 5	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.02	0.11	0.295	8.43	-71.9	1389966.3931	2267553.2825	4	3.50	1.88	845	
TOTAL COMPOSITE	4/18/2013	T. Barbee, T. Barbee, T. Thacker	8.02	-0.01	0.297	7.39	-64.8	-	-	20	25.3	42.99	19293	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

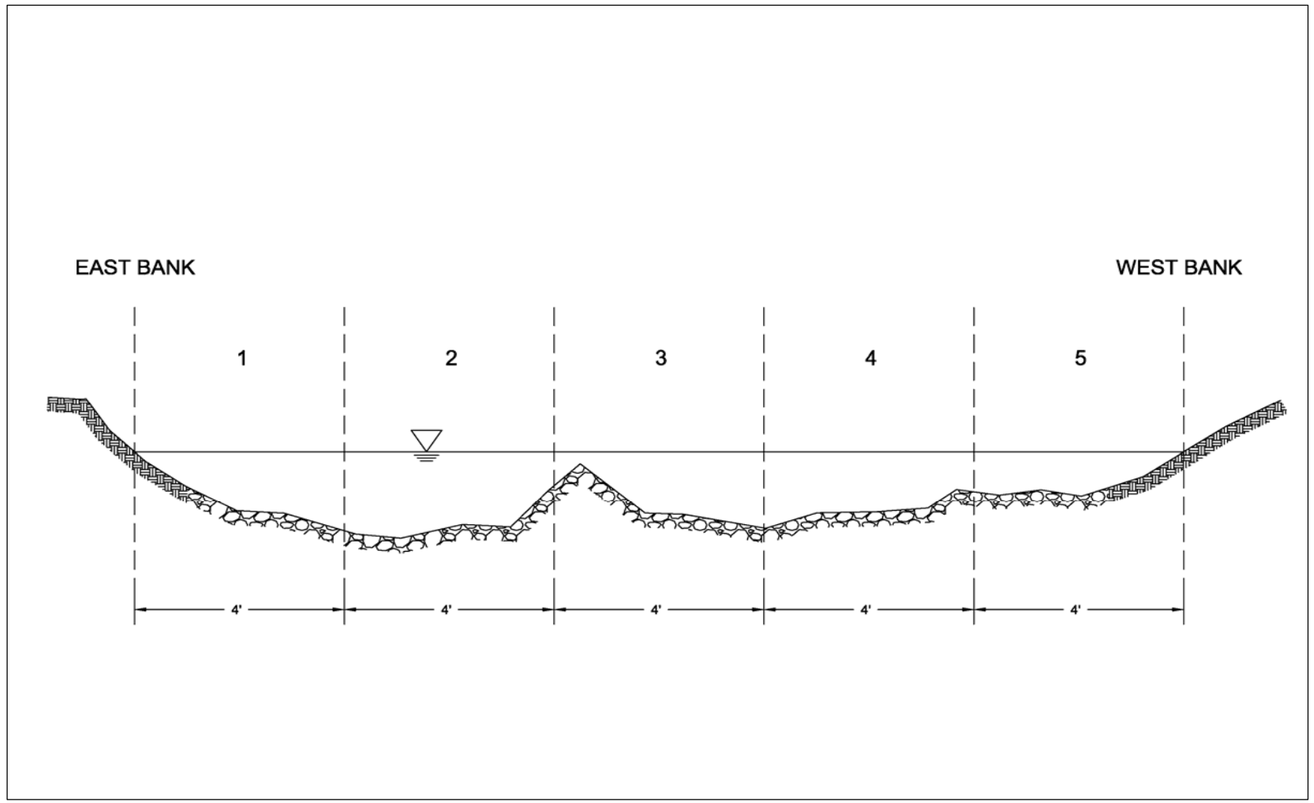

Table 3E - DR-2 Cross Section Composite Sampling Field Data and Flow Information Summary, April 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.88	-0.11	0.343	8.66	-75.8	1386655.6189	2267950.2748	6	4.70	1.96	880	
COMPARTMENT 2	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.77	-0.14	0.337	8.50	-74.0	1386654.1093	2267944.4558	6	6.90	6.07	2725	
COMPARTMENT 3	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.73	-0.18	0.334	8.55	-72.7	1386652.6935	2267938.6368	6	6.90	9.98	4479	
COMPARTMENT 4	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.70	-0.16	0.338	8.44	-72.0	1386651.2308	2267932.8179	6	5.80	6.22	2790	
COMPARTMENT 5	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.58	0.11	0.406	8.00	-71.5	1386649.7681	2267926.9989	6	3.80	1.48	662	
COMPOSITE	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.75	-0.10	0.312	7.59	-69.8	-	-	30	28.1	25.70	11536	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

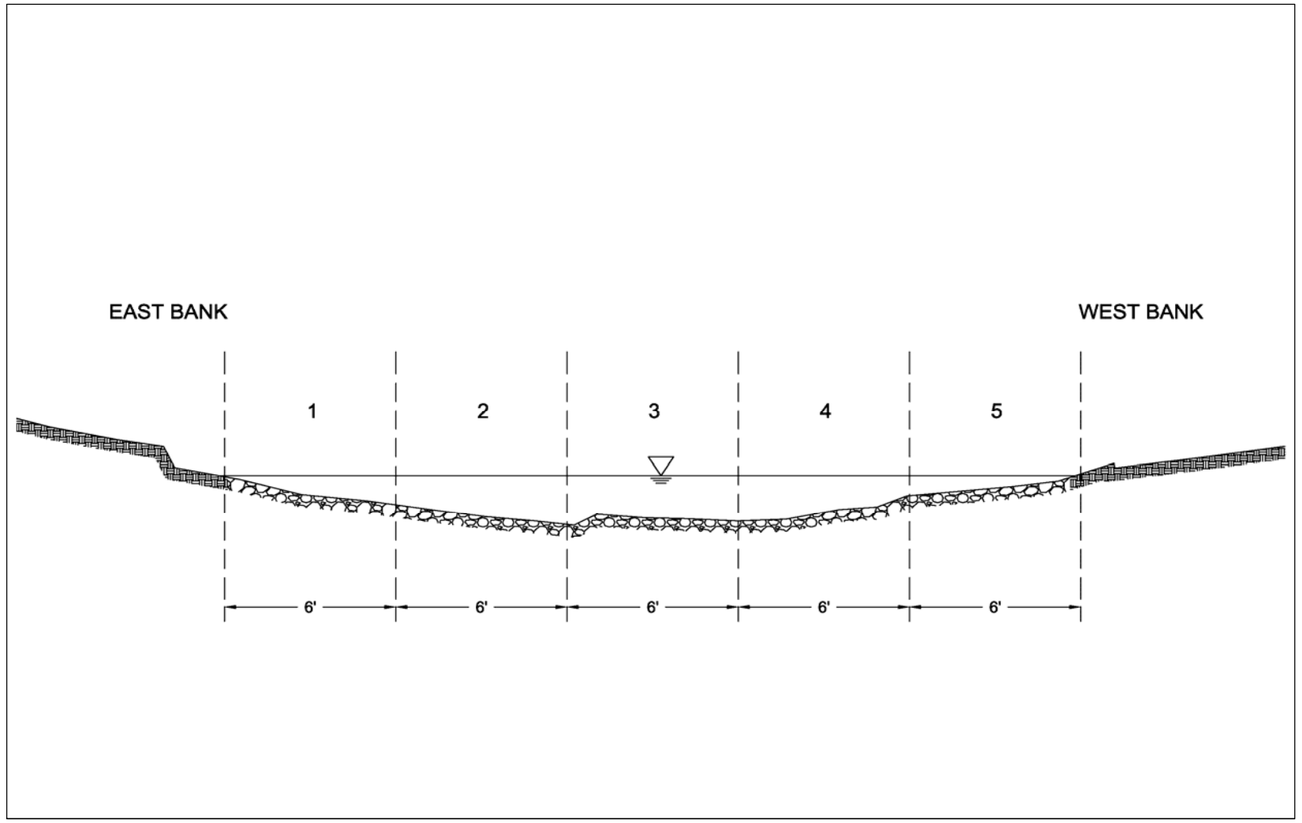

Table 3F - DR-7 Cross Section Composite Sampling Field Data and Flow Information Summary, April 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.39	0.28	0.485	8.15	-54.5	1385879.9712	2267957.4758	6	1.60	0.45	200	
COMPARTMENT 2	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.35	0.14	0.463	8.13	-58.5	1385878.1883	2267951.7469	6	3.70	4.88	2188	
COMPARTMENT 3	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.43	0.02	0.431	8.11	-60.3	1385876.4053	2267946.0179	6	4.30	9.49	4260	
COMPARTMENT 4	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.50	-0.04	0.404	8.08	-60.9	1385874.6223	2267940.2889	6	4.30	9.43	4231	
COMPARTMENT 5	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.54	-0.04	0.390	8.07	-61.0	1385872.8394	2267934.5600	6	2.80	1.97	885	
COMPARTMENT 6	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.49	-0.04	0.387	8.11	-60.1	1385871.0564	2267928.8310	6	4.30	7.04	3158	
COMPARTMENT 7	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.41	0.01	0.388	8.06	-58.9	1385869.2735	2267923.1020	6	2.70	1.58	708	
COMPOSITE	4/18/2013	T. Barbee, T. Barbee, T. Thacker	7.43	-0.23	0.419	7.47	-55.0	-	-	42	23.7	34.82	15629	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

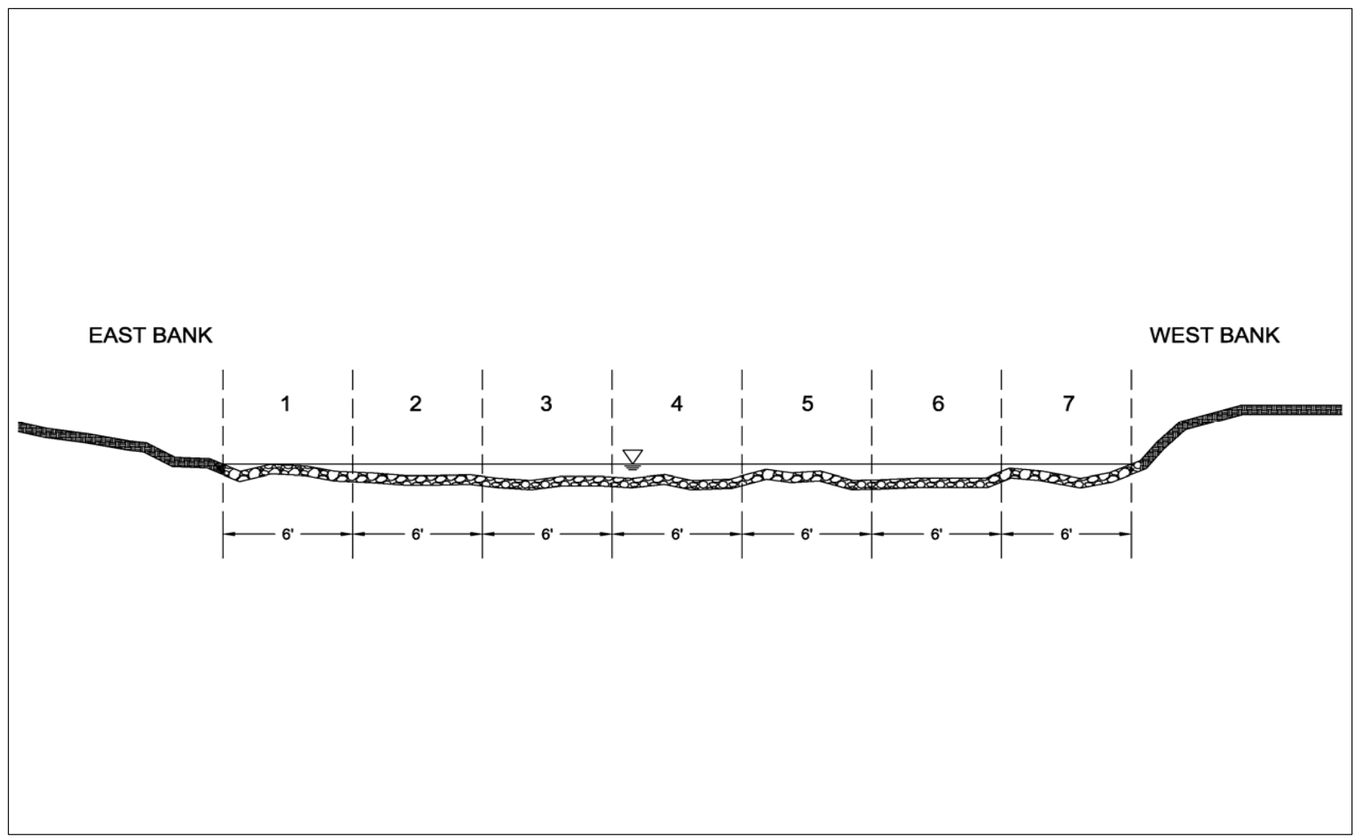

Table 3G - DR-4-SW Cross Section Composite Sampling Field Data and Flow Information Summary, April 2013

			Field Measurements					GPS Location (Colorado State Plane NAD83)		Flow Data				Comments
Sample Location	Date of Sample Collection	Field Technicians	pH	Temp (°C)	EC (mS/cm)	Dissolved Oxygen (ppm)	Oxydation Reduction Potential (ORP, mV)	Northing*	Easting*	Compartment Geometry		Average Flowrate		
										Width (ft)	Area (ft^2)	cfs	gpm	
COMPARTMENT 1	4/16/2013	T. Barbee	8.35	7.16	0.430	6.03	-58.6	1379183.3956	2266268.9649	5	3.40	4.36	1957	
COMPARTMENT 2	4/16/2013	T. Barbee	8.13	7.80	0.428	5.96	-73.2	1379185.4360	2266264.4002	5	4.40	10.92	4899	
COMPARTMENT 3	4/16/2013	T. Barbee	8.02	7.76	0.427	5.90	-78.4	1379187.4764	2266259.8355	5	4.30	7.79	3494	
COMPARTMENT 4	4/16/2013	T. Barbee	7.72	7.41	0.425	5.98	-51.6	1379189.5169	2266255.2708	5	5.30	8.68	3894	
COMPARTMENT 5	4/16/2013	T. Barbee	7.75	7.43	0.425	6.02	-48.5	1379191.5573	2266250.7061	5	3.70	6.08	2730	
COMPARTMENT 6	4/16/2013	T. Barbee	7.77	7.45	0.427	5.97	-43.9	1379193.5978	2266246.1414	5	2.40	2.78	1247	
COMPARTMENT 7	4/16/2013	T. Barbee	7.99	7.51	0.427	6.02	-37.4	1379195.6382	2266241.5767	5	0.60	0.24	106	
COMPOSITE	4/16/2013	T. Barbee	8.02	8.42	0.424	4.60	-60.5	-	-	35	24	41	18327	

*Northing and easting values are estimates based on surveyed benchark on east bank of river at this location

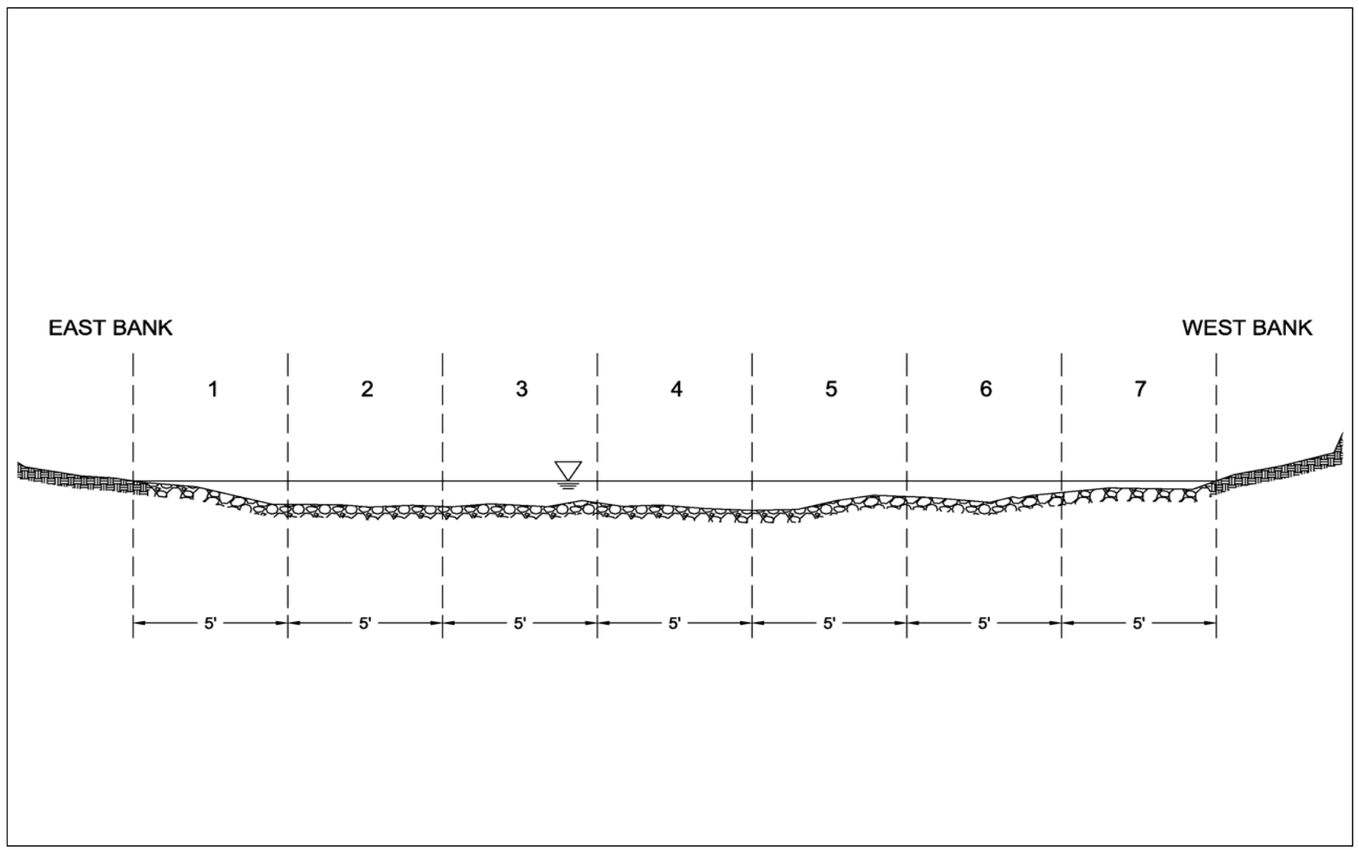

TABLE 4A - Surface Water Analytical Sampling Results Summary, April 2013

			Metals (µg/L)																									Non-Metals (mg/L, unless otherwise indicated)													
Field Sample ID	Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as sea water (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
DR-1	4/18/13	Total	218	<0.5	<0.5	69.8	<0.2	<0.08	38400	<0.5	<0.5	1.2	332	0.58	6480	37.9	<0.2	0.8	0.74	744	1	<0.5	3660	<0.1	0.57	<5	83.6	<20	83.6	3.5	<0.005	122000	<0.1	175	0.13	6670	40.1	<0.05	11	3.2	20
		Dissolved	5.2	<0.5	<0.5	65.1	<0.2	<0.08	37800	1.1	<0.5	1.2	<50	<0.1	6370	9.6	<0.2	0.76	0.9	696	1.1	<0.5	3700	<0.1	<0.1	<5															
		Potentially Dissolved	62.9	0.25J	<1	61.8	<0.5	<0.5	38700	1.1	0.16J	1	160	0.27J	6290	31.2	<0.2	0.63J	1.1	637	0.75J	<0.5	3690	<1	<1	4.5J															
DR-2	4/18/13	Total	238	<0.50	<0.50	66.5	<0.20	<0.080	46300	0.78	<0.50	1.3	538	0.50	6970	93.8	<0.20	1.1	0.92	876	0.95	<0.50	3810	<0.10	0.60	8.9	85.5	<20.0	85.5	3.4	<0.0050	144000	<0.10	195	0.15	6840	55.1	<0.050	102	3.0	12.0
		Dissolved	21.8	<0.50	<0.50	63.4	<0.20	<0.080	46800	<0.50	<0.50	0.97	<50.0	<0.10	6830	71.8	<0.20	0.94	0.70	822	1.0	<0.50	3820	<0.10	0.11	<5.0															
		Potentially Dissolved	56.0	0.24J	0.17J	58.6	<0.50	<0.50	45300	1.6	0.14J	0.73J	283	0.33J	6770	94.7	<0.20	0.81J	1.0	769	0.70J	<0.50	3800	<1.0	<1.0	23.5															
DR-3	4/25/13	Total	1020	<0.50	2.4	22.7	1.1	19.0	293000	0.57	3.2	170	12400	25.0	19600	1890	<0.20	17.4	4.0	5420	<0.50	<0.50	14000	<0.10	0.21	4050	95.0	<20.0	95.0	<1.0	<0.0050	811000	<0.10	875	0.68	20500	687	<0.050	920	<1.0	19.0
		Dissolved	51.2	<0.50	<0.50	20.2	0.33	15.4	257000	0.70	2.8	12.9	1420	1.0	19100	1760	<0.20	14.6	7.8	5360	<0.50	<0.50	11800	<0.10	<0.10	3230															
		Potentially Dissolved	850	0.25J	1.8	19.0	0.82	16.6	263000	1.5	2.5	165	11100	21.4	20200	1690	<0.20	16.6	2.9	5410	<1.0	0.12J	11900	0.26J	<2.0	3640															
DR-4	4/25/13	Total	227	<0.50	0.74	20.7	2.7	14.2	290000	1.2	2.5	39.7	2780	5.5	20200	1800	<0.20	15.0	4.3	5410	<0.50	<0.50	12900	<0.10	<0.10	2830	98.8	<20.0	98.8	<1.0	0.0061	808000	<0.10	851	0.66	17400	608	<0.050	959	<1.0	<5.0
		Dissolved	10.6	<0.50	<0.50	20.2	<0.20	11.9	265000	1.2	2.7	2.9	<50.0	0.12	19800	1770	<0.20	15.1	8.1	5560	<0.50	<0.50	12500	<0.10	<0.10	2290															
		Potentially Dissolved	162	0.17J	0.23J	19.0	0.20J	13.4	262000	1.1	2.4	37.4	2550	5.4	20700	1650	<0.20	15.5	2.8	5750	<1.0	0.10J	12700	0.26J	<2.0	2600															
DR-5	4/24/13	Total	68.3	<0.50	<0.50	21.0	<0.20	8.1	303000	0.54	1.6	11.4	967	1.8	20600	1650	<0.20	13.8	3.3	5490	<0.50	<0.50	14200	<0.10	<0.10	2090	104	<20.0	104	<1.0	<0.0050	840000	<0.10	885	0.69	16600	700	<0.050	1060	<1.0	5.3
		Dissolved	5.6	<0.50	<0.50	20.2	<0.20	0.47	270000	<0.50	2.1	0.76	<50.0	<0.10	20900	1590	<0.20	14.1	3.6	5660	<0.50	<0.50	12500	<0.10	<0.10	1640															
		Potentially Dissolved	56.6J	0.16J	<1.0	19.2	0.24J	7.7	263000	0.27J	1.9	10.7	871	1.8	21100	1470	<0.20	14.4	1.9	5360	<1.0	0.10J	11700	0.27J	<1.0	1840															
DR-6	4/25/13	Total	27.2	<0.50	<0.50	21.8	<0.20	5.3	316000	<0.50	1.7	3.3	503	0.87	27100	1540	<0.20	12.3	3.0	6310	<0.50	<0.50	17200	<0.10	<0.10	1840	144	<20.0	144	<1.0	<0.0050	900000	<0.10	917	0.72	20300	721	<0.050	1150	<1.0	<5.0
		Dissolved	5.5	<0.50	<0.50	20.1	<0.20	3.2	284000	<0.50	1.7	0.96	132	0.14	26000	1480	<0.20	12.5	3.2	6340	<0.50	<0.50	15400	<0.10	<0.10	1710															
		Potentially Dissolved	21.5J	0.14J	<1.0	20.1	0.20J	5.1	284000	0.44J	1.6	3.0	485	0.98J	24600	1400	<0.20	12.9	1.8	6310	<1.0	0.097J	14400	0.26J	<1.0	1680															
DR-7	4/18/13	Total	146	<0.50	0.90	65.1	<0.20	0.22	70900	<0.50	<0.50	1.2	484	0.60	10200	178	<0.20	1.5	0.55	1780	1.0	<0.50	6390	<0.10	0.31	97.5	106	<20.0	106	3.5	0.040	219000	0.25	310	0.23	10300	106	<0.050	269	3.0	5.0
		Dissolved	5.6	<0.50	0.55	61.3	<0.20	0.091	85400	0.52	<0.50	1.6	<50.0	<0.10	9960	159	<0.20	1.5	3.8	1660	0.95	<0.50	5870	<0.10	<0.10	69.5															
		Potentially Dissolved	51.4	0.24J	0.52J	58.7	<0.50	0.24J	66300	0.83J	0.21J	1.1	245	0.38J	9680	167	<0.20	1.3	0.89J	1640	0.82J	<0.50	5960	0.023J	<1.0	73.3															
DR-4-SW	4/16/13	Total	118	<0.50	<0.50	64.7	<0.20	0.46	64400	0.66	<0.50	1.2	231	0.60	8520	121	<0.20	1.3	<0.50	1200	1.0	<0.50	4780	<0.10	0.31	108	106	<20.0	106	3.7	<0.0050	196000	<0.10	276	0.21	7770	83.5	<0.050	232	2.2	7.0
		Dissolved	4.7	<0.50	<0.50	63.0	<0.20	0.42	74300	<0.50	<0.50	1.2	<50.0	<0.10	8810	113	<0.20	1.3	0.82	1190	0.91	<0.50	4680	<0.10	<0.10	99.5															
		Potentially Dissolved	47.0J	0.11J	0.37J	64.0	<0.50	0.51	56200	0.98J	0.20J	2.0	236	2.2	8370	128	<0.20	1.4	0.78J	1180	0.97J	<0.50	5100	0.07TJ	<1.0	112															
DR-G	4/16/13	Total	104	<0.50	<0.50	83.2	<0.20	0.37	60300	<0.50	<0.50	1.1	218	0.54	8090	81.2	<0.20	1.2	<0.50	1130	0.78	<0.50	4480	<0.10	0.40	72.5	114	<20.0	114	3.3	<0.0050	184000	<0.10	256	0.19	7190	68.8	<0.050	215	2.2	<5.0
		Dissolved	10.9	<0.50	<0.50	78.6	<0.20	0.27	71000	<0.50	<0.50	1.6	<50.0	<0.10	8150	55.8	<0.20	1.0	4.1	1100	0.83	<0.50	4260	<0.10	0.17	53.2															
		Potentially Dissolved	29.7J	0.073J	0.17J	77.4	<0.50	0.30J	53400	0.46J	0.12J	1.9	119	6.3	7760	70.4	<0.20	1.0	0.57J	1330	0.77J	<0.50	4760	0.023J	<1.0	80.4															

ANDERSON
ENGINEERING COMPANY INC.

TABLE 4B - Groundwater Analytical Sampling Results Summary, April 2013

Field Sample ID	Date Collected	Fraction	Metals (µg/L)																									Non-Metals (mg/L, unless otherwise indicated)														
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as seawater (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
GW-1	4/3/13	Total	17400	0.60	25.7	421	1.7	2.4	59500	19.3	18.2	101	35200	102	15000	3490	0.63	5.8	30.5	4090	2.8	1.1	3470	0.56	39.9	351	104	<20.0	104	3.4	<0.0050	210000	<0.10	234	0.18	60200	57.3	<0.050	199	3.7	217
		Dissolved	2460	<0.50	3.2	102	<0.20	0.28	60200	2.7	2.1	12.6	3740	10.8	7810	379	<0.20	2.0	7.2	1430	1.1	<0.50	3250	<0.10	4.8	42.1																
		Potentially Dissolved	3690	0.16J	2.8	276	0.94	2.4	58400	4.3	7.2	54.8	5830	41.9	8220	1720	<0.20	0.42J	16.1	1160	2.8	0.82	3160	0.052J	5.9	176																
GW-3	4/3/13	Total	17100	0.75	30.8	321	0.79	2.3	143000	26.2	11.8	118	33400	294	26900	1800	<0.20	4.4	18.8	4750	39.4	2.7	3280	0.36	38.1	619	156	<20.0	156	1.3	0.0052	464000	0.17	484	0.37	63400	262	<0.050	468	1.8	255
		Dissolved	8.0	<0.50	<0.50	24.2	<0.20	0.10	147000	<0.50	<0.50	1.8	<50.0	<0.10	15400	4.3	<0.20	0.71	3.4	2090	36.9	<0.50	2870	<0.10	<0.10	18.7																
		Potentially Dissolved	4830	0.30J	9.8	77.6	0.65	4.5	142000	9.0	9.3	126	11700	160	16800	2110	<0.20	0.36J	10.8	2710	40.0	1.6	3090	0.033J	7.2	675																
GW-4	4/2/13	Total	42300	0.75	28.8	726	2.7	8.0	138000	68.1	23.5	168	80300	181	39400	1950	<0.20	21.6	50.1	7340	4.7	3.9	5430	0.85	91.3	1110	251	<20.0	251	1.7	<0.0050	508000	<0.10	456	0.35	118000	203	1.3	438	2.3	1870
		Dissolved	5.3	<0.50	1.7	33.9	<0.20	0.19	122000	<0.50	1.0	0.65	112	<0.10	12100	514	<0.20	10.4	2.3	1970	0.57	<0.50	4560	<0.10	0.17	16.8																
		Potentially Dissolved	6160	0.31J	6.5	117	1.3	7.7	134000	13.8	9.7	112	18900	134	15500	1520	<0.20	5.7	16.7	2920	4.0	0.19J	4830	0.23J	18.0	702																
GW-5	4/2/13	Total	7190	1.8	137	71.7	0.71	68.7	294000	9.0	18.4	1060	32600	11700	25900	3580	<0.20	16.2	27.0	4320	3.1	50.5	6900	1.1	11.8	16700	167	<20.0	167	1.2	<0.0050	840000	<0.10	922	0.72	48200	675	<0.050	1140	1.3	203
		Dissolved	74.0	<0.50	35.6	10.2	<0.20	0.68	277000	<0.50	1.9	8.4	3020	127	22200	1680	<0.20	6.8	2.7	3000	<0.50	<0.50	7200	<0.10	0.18	2480																
		Potentially Dissolved	11100	0.096J	159	18.2	1.7	56.9	304000	11.1	17.4	12.4	49700	4060	26500	4930	<0.20	0.74J	35.2	3930	5.1	<0.50	7480	0.38J	21.0	45800																
GW-6	4/16/13	Total	20400	3.1	253	119	2.8	58.8	377000	23.3	21.2	699	111000	8830	55400	9370	<0.20	10.7	31.3	11800	3.7	18.8	7090	1.3	40.5	19300	198	<20.0	198	1.2	<0.0050	1170000	0.11	1090	0.86	94500	944	<0.050	1390	3.5	688
		Dissolved	45.4	<0.50	61.8	14.8	0.39	<0.080	437000	1.0	2.9	1.1	29700	1.8	41800	5940	<0.20	6.5	7.4	7860	<0.50	<0.50	6570	<0.10	<0.10	9610																
		Potentially Dissolved	3440	0.55J	135	19.8	1.0	14.2	328000	5.0	6.1	141	39100	3260	41000	6780	<0.20	4.1	6.9	8440	0.58J	<0.50	7180	0.27J	8.7	10600																
GW-7	4/2/13	Total	9890	0.58	12.7	41.0	1.2	5.4	277000	16.2	4.3	147	22000	471	33000	219	<0.20	4.2	12.0	3870	8.1	2.4	8780	0.40	12.8	806	243	<20.0	243	1.0	<0.0050	828000	0.35	900	0.70	38200	576	<0.050	1030	1.5	309
		Dissolved	70.7	<0.50	<0.50	12.5	<0.20	2.9	273000	<0.50	0.71	4.4	<50.0	4.6	28300	48.3	<0.20	1.1	2.4	2490	2.4	<0.50	9280	<0.10	<0.10	157																
		Potentially Dissolved	5080	0.14J	3.8	19.7	0.89	4.0	279000	6.4	2.6	131	9190	389	27500	91.6	<0.20	0.70J	7.6	3030	5.4	0.49J	9590	0.19J	2.7	513																
EB-1	4/17/13	Total	1490	<0.50	20.0	24.5	0.42	3.4	422000	2.3	5.1	72.8	10200	524	29100	3160	<0.20	11.8	4.4	4800	<0.50	1.7	7520	<0.10	2.4	2040	158	<20.0	158	1.7	<0.0050	1170000	<0.10	1140	0.90	25200	930	<0.050	1470	<1.0	97.0
		Dissolved	13.5	<0.50	6.0	11.2	<0.20	<0.080	463000	0.50	4.0	1.3	2630	0.89	26000	3060	<0.20	12.0	5.0	4390	<0.50	<0.50	6940	<0.10	<0.10	1020																
		Potentially Dissolved	564	0.14J	13.4	16.7	0.20J	1.8	347000	1.5	4.0	38.9	5600	329	25300	2890	<0.20	11.0	1.8	4610	<1.0	0.22J	7590	0.036J	0.79J	1450																
EB-2	4/17/13	Total	20600	<0.50	393	26.5	8.6	6.8	346000	<0.50	89.2	93.2	715000	877	173000	36700	<0.20	4.6	120	17100	1.8	2.8	6890	0.16	1.5	82900	<20.0	<20.0	<20.0	4.3	<0.0050	1580000	<0.10	2400	2.0	46100	3080	<0.050	4580	2.0	232
		Dissolved	18700	<2.5	312	9.3	8.4	1.8	403000	<2.5	94.8	<2.5	683000	4.3	154000	35700	<0.20	3.1	147	16200	<2.5	<2.5	6700	<0.50	<0.50	74000																
		Potentially Dissolved	18200	3.0J	404	13.7	7.3	4.8	286000	2.3J	91.3	70.4	691000	724	141000	35500	<0.20	4.5J	138	14400	<10.0	<2.5	6120	0.18J	<5.0	71600																
MW-1 SHALLOW	4/17/13	Total	7700	<0.50	9.7	102	0.82	1.2	241000	8.7	5.5	45.2	11200	146	24400	661	<0.20	6.2	6.8	7950	13.6	1.1	11300	0.27	11.7	208	81.7	<20.0	81.7	1.1	<0.0050	703000	<0.10	815	0.63	38000	606	<0.050	727	1.2	718
		Dissolved	6.9	<0.50	<0.50	17.8	<0.20	0.27	283000	<0.50	<0.50	0.80	<50.0	<0.10	19400	2.1	<0.20	7.6	<0.50	6520	10.9	<0.50	10500	<0.10	<0.10	30.6																
		Potentially Dissolved	2860	0.19J	3.0	43.6	0.65	1.6	204000	3.9	4.6	39.4	4210	141	19500	684	<0.20	2.0	3.1	7010	11.7	1.2	11300	0.097J	4.3	206																
MW-1 DEEP	4/24/13	Total	301	<0.50	0.99	21.7	<0.20	2.7	282000	1.1	<0.50	18.9	1500	34.3	21000	110	<0.20	9.6	0.92	10200	12.6	<0.50	13200	0.13	0.36	847	91.2	<20.0	91.2	<1.0	<0.0050	790000	<0.10	900	0.70	12800	711	<0.050	942	<1.0	16.0
		Dissolved	94.1	<0.50	0.53	18.2	<0.20	2.0	248000	<0.50	<0.50	8.6	537	12.6	20400	45.2	<0.20	9.3	0.68	9430	12.7	<0.50	12000	0.11	0.14	624																
		Potentially Dissolved	178	0.15J	0.96J	19.1	0.24J	2.8	251000	1.5	0.28J	18.3	1220	33.6	21500	90.3	<0.20	9.0	<1.0	9790	11.8	0.21J	12400	0.33J	<1.0	787																
MW-2 SHALLOW	4/17/13	Total	CNO; Not enough water to sample.																																								
		Dissolved																																									
		Potentially Dissolved																																									
MW-2 DEEP	4/17/13	Total	1180	<0.50	2.7	19.5	<0.20	1.1	256000	1.1	<0.50	6.0	2250	6.9	22000	33.1	<0.20	7.8	<0.50	2030	1.4	<0.50	11200	<0.10	2.3	38.9	81.7	<20.0	81.7	1.2	<0.0050	729000	<0.10	807	0.63	13700	631	<0.050	1000	<1.0	44.0
		Dissolved	<4.0	<0.50	<0.50	11.6	<0.20	0.78	303000	<0.50	<0.50	0.64	<50.0	<0.10	21400	<0.50	<0.20	6.7	<0.50	1620	1.3	<0.50	10300	<0.10	<0.10	16.1																
		Potentially Dissolved	501	0.33J	1.3	17.7	0.088J	1.1	231000	1.1	0.31J	5.4	1510	8.0	20600	41.4	<0.20	3.7	0.77J	1570	1.3	<0.50	10300	0.14J	1.7	37.6																
MW-3 SHALLOW	4/17/13	Total	CNO; Not enough water to sample.																																								
		Dissolved																																									
		Potentially Dissolved																																									
MW-3 DEEP	4/17/13	Total	4430	<0.50	6.2	94.2	0.48	7.7	262000	4.6	3.4	72.1	9680	114	26800	1520	<0.20	7.1	3.9	6150	1.1	<0.50	12100	0.25	11.8	300	81.7	<20.0	81.7	1.2	<0.0050	764000	<0.10	813	0.63	26300	626	<0.050	1000	1.5	160
		Dissolved	5.7	<0.50	0.60	19.2	<0.20	0.20	297000	<0.50	1.0	0.51	1030	<0.10	22200	1460	<0.20	8.0	<0.50	5220	<0.50	<0.50	11900	<0.10	<0.10	38.8																
		Potentially Dissolved	1630	0.12J	3.4	33.2	0.31J	7.2	219000	2.7	2.5	60.7	6060	110	23600	1490	<0.20	5.5	1.2	5660	0.54J	<0.50	12500	0.18J	6.5	265																
MW-4 SHALLOW	4/17/13	Total	7350	<0.50	5.2	142	0.76	1.8	232000	8.9	4.5	43.3	8880	66.9	27000	298	<0.20	2.0	5.9	5300	26.2	0.53	7540	0.18	9.2	340	230	<20.0	230	1.5	<0.0050	690000	0.35	756	0.59	37200	448	<0.050	892	2.2	269
		Dissolved	129	<0.50	<0.50	87.2	<0.20	1.2	275000	1.5	<0.50	2.2	140	1.0	20500	8.0	<0.20	1.4	<0.50	3900	23.5	<0.50	6960	<0.10	0.21	159																
		Potentially Dissolved	1480	0.094J	1.4	94.2	0.32J	1.5	194000	2.6	1.5	17.7	1980	31.8	21700	122	<0.20	1.0J	0.62J	4100	24.4	0.12J	7370	0.065J	2.1	227																
MW-4 DEEP	4/17/13	Total	13000	0.55	24.9	186	1.6	9.9	293000	13.5	16.5	231	29600	178	39200	2590	<0.20	8.9	14.1	4930	51.6	3.2	7320	0.29	23.8	1090	232	<20.0	232	1.4	<0.0050	894000	<0.10	897	0.70	49200	616	<0.050	1090	1.5	878
		Dissolved	608	<0.50	1.1	24.7	<0.20	2.2	359000	0.87	0.74	9.2	1070	6.4	33300	113	<0.20	2.3	<0.50	3290	47.5	<0.50	6990	<0.10	1.2	307																
		Potentially Dissolved	3860	0.11J	4.1	60.7	0.84	7.2	245000	5.5	4.5	151	8920	127	30800	608	<0.20	0.85J	3.4	3450	48.9	1.9	7360	0.023J	5.8	726																
MW-5 SHALLOW	4/16/13	Total	26400	<2.5	382	46.6	7.4	195	466000	<2.5	95.8	876	47700	3840	141000	27400	<0.20	4.0	173	3580	4.8	10.5	22500	0.90	9.4	146000	<20.0	<20.0	<20.0	2.4	<0.0050	1740000	<0.10	2530	2.1	71500	2980	<0.050	3550	2.2	610
		Dissolved	18100	<0.50	230	8.6	4.8	137	566000	2.5	86.4	1.9	449000	750	130000	26600	<0.20	<0.50	174	2440	5.4	<0.50	20800	0.26	1.4	141000																
		Potentially Dissolved	17800	0.59J	337	7.3	5.9	167	406000	9.7	77.7	592	426000	2580	123000	23700	<0.20	1.5	139	2470	4.3	0.14J	20500	0.67J	5.8	137000																
MW-5 DEEP	4/16/13	Total	12000	1.4	287	90.5	3.4	13.4	332000	8.0	14.1	241	97500	3320	51300	18600	<0.20	12.9	15.8	8660	1.6	4.9	7420	0.63	19.9	18800	122	<20.0	122	1.6	<0.0050	1040000	<0.10	1080	0.85	62200	897	<0.050	1020	1.5	554
		Dissolved	630	<0.50	115	14.6	1.3	0.38	379000	0.64	6.6	6.8	50400	58.5	45000	8470	<0.20	9.0	6.4	6900	<0.50	<0.50	6880	<0.10	0.55	5600																
		Potentially Dissolved	4900	0.21J	209	15.5	2.0	7.4	282000	5.2	9.0	147	48700	1920	42100	8450	<0.20	3.5	10.2	7540	1.6	<0.50	7720	0.39J	8.0	6780																
MW-6 SHALLOW	4/17/13	Total	22000	0.72	112	104	1.8	15.7	447000	16.5	15.3	101	81200	225	68300	8490	<0.20	8.4	25.2	14900	4.0	1.0	4350	0.64	25.6	4320	79.8	<20.0	79.8	1.9	<0.0050	1400000	0.11	1320	1.1	89100	1140	<0.050	1770	1.5	1120
		Dissolved	818	<0.50	31.4	19.0	0.86	0.14	397000	<0.50	3.8	<0.50	52400	<0.10	57100	8050	<0.20	4.5	1.5	11900	1.9	<0.50	4010	<0.10	<0.10	794																
		Potentially Dissolved	7380	0.13J	82.5	28.0	0.97	14.8	346000	5.0	10.2	56.4	52400	212	53100	7600	<0.20	3.4	12.1	12000	3.3	<0.50	4360	0.32J	6.5	3960																
MW-6 DEEP	4/17/13	Total	4930	<0.50	48.9	60.0	1.0	3.4	320000	4.0	7.1	34.4	31300	66.4	45100	7210	<0.20	6.5	6.1	7780	1.3	<0.50	5040	<0.10	9.1	1230	141	<20.0	141	1.8	<0.0050	984000	<0.10	1050	0.83	32800	802	<0.050	1350	1.9	191
		Dissolved	372	<0.50	17.4	18.4	0.57	<0.080	369000	<0.50	3.1	<0.50	24300	0.16	43600	7630	<0.20	5.9	1.2	6650	0.65	<0.50	4560	<0.10	<0.10	340																
		Potentially Dissolved	2050	0.15J	40.6	31.6	0.72	3.0	272000	2.8	4.2	24.1	26500	53.2	41800	7510	<0.20	4.5	3.1	7260	0.97J	<0.50	5180	0.034J	4.4	1200																
MW-101	4/2/13	Total	5020	<0.50	6.7	80.1	0.58	1.9	324000	7.9	37.2	37.2	32400	423	51200	7360	<0.20	4.9	23.0	7720	2.7	2.0	25300	0.22	7.9	609	255	<20.0	255	1.5	<0.0050	1020000	0.33	1150	0.91	33400	788	<0.050	1290	1.7	852
		Dissolved	204	<0.50	1.3	29.1	0.23	0.15	303000	<0.50	34.4	<0.50	19300	1.2	49000	6640	<0.20	2.2	18.3	6960	1.7	<0.50	25900	<0.10	<0.10	378																
		Potentially Dissolved	1310	0.13J	2.5	36.1	0.40J	1.1	318000	3.7	33.7	15.8	23300	245	45800	7540	<0.20	0.91J	19.2	7620	2.2	<0.50	26400	0.085J	2.0	465																
MW-102	4/2/13	Total	6370	<0.50	8.2	54.4	0.68	1.2	234000	8.0	8.6	24.5	9290	44.1	25900	1120	<0.20	3.8	8.2	3030	2.3	<0.50	6630	<0.20	10.5	271	211	<20.0	211	<1.0	<0.0050	691000	0.36	716	0.55	30400	503	<0.050	900	1.0	1810
		Dissolved	6.4	<0.50	<0.50	13.7	<0.20	0.22	228000	<0.50	<0.50	0.59	<50.0	<0.10	22000	9.1	<0.20	0.76	<0.50	2010	1.5	<0.50	6880	<0.10	<0.10	53.0																
		Potentially Dissolved	1840	0.11J	2.0	30.8	0.39J	0.84	232000	3.2	3.6	12.2	2340	22.8	22300	447	<0.20	0.22J	3.8	2240	2.6	0.11J	7010	<1.0	2.5	176																
MW-103	4/24/13	Total	864	<0.50	5.6	37.5	0.47	0.54	342000	0.97	3.1	3.3	9330	3.2	34000	8660	<0.20	7.5	2.3	4130	<0.50	<0.50	16500	<0.10	1.4	146	315	<20.0	315	1.2	0.0062	994000	<0.10	994	0.78	27700	652	<0.050	1160	2.3	50.7
		Dissolved	44.4	<0.50	2.9	28.8	0.36	0.17	316000	<0.50	5.2	0.84	7090	0.21	32700	8640	<0.20	7.5	1.8	4020	<0.50	<0.50	15000	<0.10	<0.10	121																
		Potentially Dissolved	200	<1.0	3.3	28.8	0.48J	0.58	304000	0.77J	3.5	1.9	7360	2.7	31200	7620	<0.20	6.8	0.57J	4030	<1.0	0.10J	14800	0.28J	<1.0	131																
MW-104	4/24/13	Total	1040	<0.50	1.2	35.9	<0.20	2.7	311000	1.9	0.79	5.9	1710	8.9	27400	367	<0.20	10.3	1.7	8830	1.6	<0.50	16800	<0.10	2.0	978	127	<20.0	127	<1.0	0.0052	890000	<0.10	875	0.68	20500	708	<0.050	1030	1.2	57.3
		Dissolved	17.8	<0.50	<0.50	15.4	<0.20	2.2	262000	0.67	<0.50	1.5	<50.0	0.30	24000	30.8	<0.20	8.7	4.0	8170	1.5	<0.50	13700	<0.10	<0.10	793																
		Potentially Dissolved	317	0.072J	0.38J	24.0	0.16J	2.8	272000	1.6	0.45J	4.6	743	7.2	24400	208	<0.20	5.6	<1.0	8240	1.1	0.18J	13800	0.21J	<1.0	852																
MW-202	4/25/13	Total	CNO; Not enough water to sample.																																								
		Dissolved																																									
		Potentially Dissolved																																									
MW-204	4/3/13	Total	8500	<0.50	3.0	102	0.62	7.4	255000	17.4	4.9	15.3	11700	31.5	27900	2110	<0.20	4.8	10.7	3220	0.52	<0.50	11300	<0.20	14.0	91.8	110	<20.0	110	<1.0	0.0090	752000	<0.10	838	0.65	45800	589	<0.050	1010	<1.0	224
		Dissolved	48.7	<0.50	<0.50	35.3	<0.20	2.4	237000	<0.50	<0.50	<0.50	<50.0	0.14	20700	1780	<0.20	3.7	1.5	1820	<0.50	<0.50	11400	<0.10	<0.10	11.1																
		Potentially Dissolved	2420	0.086J	0.96J	53.3	0.40J	8.9	250000	9.1	3.8	14.8	4700	29.6	22700	2100	<0.20	2.3	7.4	2210	0.72J	<0.50	11800	0.062J	4.5	69.5																
P13-102	4/17/13	Total	536	<0.50	1.9	26.3	0.20	0.14	354000	1.9	13.2	3.1	3190	4.2	46800	15700	<0.20	4.6	1.4	5180	<0.50	<0.50	13300	<0.10	1.3	54.5	135	<20.0	135	2.1	<0.0050	1080000	<0.10	1080	0.85	20800	895	<0.050	1510	<1.0	33.0
		Dissolved	22.4	<0.50	0.78	19.5	<0.20	<0.080	400000	<0.50	11.5	<0.50	1860	<0.10	45700	15500	<0.20	4.9	1.1	4880	<0.50	<0.50	12900	<0.10	<0.10	43.2																
		Potentially Dissolved	171	0.039J	1.3	22.2	0.16J	0.10J	300000	1.5	10.4	2.0	2570	4.0	42900	15300	<0.20	4.0	<1.0	4990	<1.0	<0.50	13000	0.068J	0.40J	52.9																
P13-103	4/17/13	Total	1850	<0.50	45.6	42.4	<0.20	1.9	286000	1.5	2.8	80.9	36400	319	33300	2710	<0.20	14.1	2.7	4540	2.2	2.2	11300	0.18	2.7	392	70.3	<20.0	70.3	1.7	<0.0050	850000	<0.10	913	0.71	33800	857	<0.050	1130	<1.0	816
		Dissolved	134	<0.50	17.8	19.7	<0.20	0.54	330000	<0.50	1.8	6.7	14000	21.6	31600	2660	<0.20	10.7	0.89	4080	<0.50	<0.50	11500	<0.10	0.20	208																
		Potentially Dissolved	810	0.30J	75.1	30.3	0.21J	3.3	257000	3.2	2.3	117	40000	705	30900	2510	<0.20	15.6	1.5	4340	1.9	1.7	11700	0.25J	1.6	521																
AT-2	4/3/13	Total	3660	0.66	4.5	80.9	0.77	3.6	177000	8.3	3.2	155	98500	54.8	17400	1900	<0.20	20.3	7.8	7180	<0.50	<0.50	11300	<0.10	5.6	981	<20.0	<20.0	<20.0	1.8	<0.0050	514000	<0.10	629	0.48	14200	492	<0.050	760	1.9	178
		Dissolved	<4.0	<0.50	<0.50	55.0	<0.20	<0.080	187000	<0.50	<0.50	1.1	81.2	<0.10	15000	449	<0.20	4.1	3.2	7010	<0.50	<0.50	11900	<0.10	<0.10	6.6																
		Potentially Dissolved	530	0.11J	0.55J	63.5	0.30J	2.1	174000	2.4	1.1	65.0	28400	24.3	15100	1090	<0.20	1.7	2.4	7270	<1.0	<0.50	11900	<1.0	0.49J	409																

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TABLE 4C - Quality Control Samples Analytical Sampling Results Summary, April 2013

Field Sample ID	Date Collected	Fraction	Metals (µg/L)																								Non-Metals (mg/L, unless otherwise indicated)													
			Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as sea water (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
DR-8 DUPLICATE OF DR-3	4/25/13	Total	1010	<0.50	2.4	21.8	1.1	18.5	293000	0.88	1.9	170	12300	24.4	19500	1880	<0.20	17.6	4.3	5360	<0.50	<0.50	13500	<0.10	0.19	4130	81.7	<20.0	81.7	<1.0	<0.0050	813000	<0.10	867	0.68	20100	684	<0.050	960	<1.0	18.0
		Dissolved	12.5	<0.50	<0.50	19.9	0.26	15.3	257000	1.1	2.7	5.9	536	0.13	19600	1780	<0.20	14.5	7.3	5360	<0.50	<0.50	11600	<0.10	<0.10	3180															
		Potentially Dissolved	744	0.23J	1.7	17.9	0.82	16.6	262000	1.9	2.4	160	10700	20.8	20100	1650	<0.20	16.5	3.0	5340	<1.0	0.13J	11800	0.26J	<2.0	3570															
DR-9 DUPLICATE OF GW-1	4/3/13	Total	19600	0.64	29.2	478	1.5	3.0	60600	22.4	20.4	117	40000	113	16100	4040	0.21	6.7	35.2	4430	2.9	1.5	3580	0.56J	45.3	394	103	<20.0	103	3.4	<0.0050	217000	<0.10	221	0.17	70200	60.3	<0.050	182	3.5	503
		Dissolved	242	<0.50	<0.50	61.2	<0.20	<0.080	58400	0.58	<0.50	2.4	340	1.2	6820	41.5	<0.20	1.3	4.3	698	0.68	<0.50	3070	<0.10	0.50	7.4															
		Potentially Dissolved	2810	0.13J	2.5	241	0.67	1.4	58300	7.0	5.3	36.5	4620	33.4	8000	1200	<0.20	0.20J	11.4	1110	2.2	0.56	3150	<1.0	5.2	123															
DR-10 DUPLICATE OF MW-103	4/24/13	Total	523	<0.5	4.3	34.9	0.38	0.36	351000	<0.5	3.6	2.1	8330	1.9	34400	8890	<0.2	7.5	2	4030	<0.5	<0.5	16500	<0.1	0.82	136	321	<20	321	1.3	0.0065	1020000	<0.1	1040	0.81	27100	649	<0.05	1150	2.4	22.7
		Dissolved	20.9	<0.5	2.8	28.4	0.34	0.14	316000	<0.5	7.5	1	6930	0.11	33700	8660	<0.2	7.6	4.9	3980	<0.5	<0.5	14500	<0.1	<0.1	124															
		Potentially Dissolved	121	<1	2.9	28.1	0.47J	0.47J	298000	1.3	3.4	1.3	7190	1.5	30700	7690	<0.2	7.1	0.96J	3960	<1	0.12J	14500	0.28J	<1	134															
DR-11 DUPLICATE OF DR-6	4/25/13	Total	27.1	<0.50	<0.50	22.4	<0.20	5.1	326000	1.1	1.7	3.2	516	0.89	27400	1570	<0.20	12.4	3.6	6480	<0.50	<0.50	17600	<0.10	<0.10	1920	146	<20.0	146	<1.0	<0.0050	927000	<0.10	927	0.72	21100	730	<0.050	1110	<1.0	<5.0
		Dissolved	5.9	<0.50	<0.50	20.2	<0.20	3.0	278000	0.73	1.8	1.4	96.4	0.12	25100	1460	<0.20	12.3	6.1	6330	<0.50	<0.50	15200	<0.10	<0.10	1670															
		Potentially Dissolved	6.1J	0.14J	<1.0	19.4	<0.50	4.9	281000	0.44J	1.5	2.9	458	0.88J	24500	1350	<0.20	12.4	1.8	6170	<1.0	0.097J	14200	0.26J	<1.0	1620															
FB	4/25/13	Total	<4.0	<0.50	<0.50	0.33	<0.20	<0.080	80.0	<0.50	<0.50	<0.50	<50.0	<0.10	8.4	<0.50	<0.20	<0.50	<0.50	<20.0	<0.50	<0.50	414	<0.10	<0.10	<5.0	<20.0	<20.0	<20.0	<1.0	<0.0050	234	<0.10	<6.4	<0.014	118	<1.0	<0.050	<5.0	<1.0	6.0
		Dissolved	<4.0	<0.50	<0.50	<0.30	<0.20	<0.080	48.4	<0.50	<0.50	<0.50	<50.0	<0.10	<5.0	<0.50	<0.20	<0.50	<0.50	<20.0	<0.50	<0.50	381	<0.10	<0.10	<5.0															
		Potentially Dissolved	<50.0	<1.0	<1.0	0.70J	<0.50	0.16J	106	0.84J	<1.0	1.3	14.5J	0.13J	18.5J	0.67J	<0.20	<1.0	1.8	184J	<1.0	0.094J	538	0.20J	<1.0	3.4J															

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TABLE 4D - Dolores River Composite Sampling Analytical Sampling Results Summary, April 2013

			Metals (µg/L)																									Non-Metals (mg/L, unless otherwise indicated)														
Field Sample ID	Date Collected	Fraction	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	Alkalinity, Bicarbonate (CaCO3)	Alkalinity, Carbonate (CaCO3)	Alkalinity, Total as CaCO3	Chloride	Cyanide	Hardness (µg/L as CaCO3)	Nitrogen, NO2 plus NO3	Salinity, as dissolved solids	Salinity, as sea water (PSU)	Silica (µg/L)	Sulfate	Sulfide	TDS	TOC	TSS
DR-1 COMP	4/18/13	Total	346	<0.50	<0.50	70.3	<0.20	<0.080	39200	0.66	<0.50	1.4	484	0.74	6530	45.0	<0.20	0.81	0.91	786	1.0	<0.50	3620	<0.10	0.87	5.5	83.6	<20.0	83.6	3.5	<0.0050	125000	<0.10	177	0.13	7280	40.0	<0.050	152	3.2	20.0
		Dissolved	5.0	<0.50	<0.50	64.1	<0.20	<0.080	37100	0.52	<0.50	1.1	<50.0	<0.10	6310	9.3	<0.20	0.79	0.66	688	1.1	<0.50	3640	<0.10	<0.10	<5.0																
		Potentially Dissolved	78.8	0.26J	0.18J	63.5	<0.50	<0.50	39400	0.93J	0.25J	1.1	230	0.53J	6390	50.6	<0.20	0.62J	1.8	670	0.78J	<0.50	3690	<1.0	0.35J	6.5J																
DR-2 COMP	4/18/13	Total	263	<0.50	<0.50	66.3	<0.20	<0.080	45300	0.56	<0.50	1.0	370	0.52	7240	95.4	<0.20	0.90	0.64	962	1.0	<0.50	4030	<0.10	0.61	6.5	77.9	<20.0	77.9	3.5	<0.0050	143000	<0.10	204	0.15	7760	56.3	<0.050	12.0	3.0	23.0
		Dissolved	5.1	<0.50	<0.50	63.0	<0.20	<0.080	46100	1.1	<0.50	1.5	<50.0	<0.10	7200	68.8	<0.20	0.94	4.4	906	0.92	<0.50	4070	<0.10	0.10	6.2																
		Potentially Dissolved	82.8	0.26J	0.30J	62.3	<0.50	<0.50	45900	1.0	0.20J	1.1	364	0.64J	7060	108	<0.20	0.78J	0.84J	845	0.76J	<0.50	4010	0.023J	0.37J	24.8																
DR-7 COMP	4/18/13	Total	175	<0.50	<0.50	65.5	<0.20	0.11	58700	0.52	<0.50	0.99	294	0.33	8360	124	<0.20	1.3	<0.50	1230	0.95	<0.50	4980	<0.10	0.40	35.7	103	<20.0	103	3.5	<0.0050	181000	<0.10	246	0.18	8040	77.2	<0.050	229	3.1	<5.0
		Dissolved	4.9	<0.50	<0.50	61.9	<0.20	<0.080	56600	<0.50	<0.50	1.6	<50.0	<0.10	8320	114	<0.20	1.1	4.3	1200	0.94	<0.50	4710	<0.10	<0.10	33.3																
		Potentially Dissolved	52.4	0.25J	0.26J	60.3	<0.50	0.16J	54900	1.2	0.16J	0.99J	192	0.21J	7980	123	<0.20	1.1	0.88J	1110	0.75J	<0.50	4690	<1.0	<1.0	37.7																
DR-4-SW COMP	4/16/13	Total	144	<0.50	<0.50	67.5	<0.20	0.51	64800	<0.50	<0.50	1.5	296	0.70	8720	133	<0.20	1.3	<0.50	1230	0.98	<0.50	4900	<0.10	0.36	113	104	<20.0	104	3.7	<0.0050	198000	<0.10	260	0.20	8080	83.0	<0.050	233	2.2	6.0
		Dissolved	5.4	<0.50	<0.50	63.2	<0.20	0.45	76500	<0.50	<0.50	2.1	<50.0	<0.10	8690	114	<0.20	1.2	4.8	1170	0.97	<0.50	4620	<0.10	<0.10	99.2																
		Potentially Dissolved	37.6J	0.10J	0.31J	63.8	<0.50	0.46J	56400	0.42J	0.21J	1.6	154	7.9	8360	120	<0.20	1.5	0.47J	1260	1.0	<0.50	5180	0.075J	<1.0	123																

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Table 5A - Relative Percent Difference (RPD) of Lab Analysis Between DR-3 and DR-8

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	DR-3 (µg/L)	DR-8 (µg/L)	RPD (%)	DR-3 (µg/L)	DR-8 (µg/L)	RPD (%)	DR-3 (µg/L)	DR-8 (µg/L)	RPD (%)
Aluminum	1020	1010	-0.99	51.2	12.5	-121.51	850	744	-13.30
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.25J	0.23J	-
Arsenic	2.4	2.4	0.00	<0.50	<0.50	-	1.8	1.7	-5.71
Barium	22.7	21.8	-4.04	20.2	19.9	-1.50	19.0	17.9	-5.96
Beryllium	1.1	1.1	0.00	0.33	0.26	-23.73	0.82	0.82	0.00
Cadmium	19.0	18.5	-2.67	15.4	15.3	-0.65	16.6	16.6	0.00
Calcium	293000	293000	0.00	257000	257000	0.00	263000	262000	-0.38
Chromium	0.57	0.88	42.76	0.70	1.1	44.44	1.5	1.9	23.53
Cobalt	3.2	1.9	-50.98	2.8	2.7	-3.64	2.5	2.4	-4.08
Copper	170	170	0.00	12.9	5.9	-74.47	165	160	-3.08
Iron	12400	12300	-0.81	1420	536	-90.39	11100	10700	-3.67
Lead	25.0	24.4	-2.43	1.0	0.13	-153.98	21.4	20.8	-2.84
Magnesium	19600	19500	-0.51	19100	19600	2.58	20200	20100	-0.50
Manganese	1890	1880	-0.53	1760	1780	1.13	1690	1650	-2.40
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	17.4	17.6	1.14	14.6	14.5	-0.69	16.6	16.5	-0.60
Nickel	4.0	4.3	7.23	7.8	7.3	-6.62	2.9	3.0	3.39
Potassium	5420	5360	-1.11	5360	5360	0.00	5410	5340	-1.30
Selenium	<0.50	<0.50	-	<0.50	<0.50	-	<1.0	<1.0	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.12J	0.13J	-
Sodium	14000	13500	-3.64	11800	11600	-1.71	11900	11800	-0.84
Thallium	<0.10	<0.10	-	<0.10	<0.10	-	0.26J	0.26J	-
Vanadium	0.21	0.19	-10.00	<0.10	<0.10	-	<2.0	<2.0	-
Zinc	4050	4130	1.96	3230	3180	-1.56	3640	3570	-1.94
Alkalinity, Bicarbonate (CaCO3, mg/L)	95.0	81.7	-15.05	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	95.0	81.7	-15.05	-	-	-	-	-	-
Chloride (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	811000	813000	0.25	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	<0.10	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	875	867	-0.92	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.68	0.68	0.00	-	-	-	-	-	-
Silica	20500	20100	-1.97	-	-	-	-	-	-
Sulfate (mg/L)	687	684	-0.44	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	920	960	4.26	-	-	-	-	-	-
TOC (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
TSS (mg/L)	463	18.0	-185.03	-	-	-	-	-	-

Table 5B - Relative Percent Difference (RPD) of Lab Analysis Between GW-1 and DR-9

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	GW-1 (µg/L)	DR-9 (µg/L)	RPD (%)	GW-1 (µg/L)	DR-9 (µg/L)	RPD (%)	GW-1 (µg/L)	DR-9 (µg/L)	RPD (%)
Aluminum	17400	19600	11.89	2460	242	-164.17	3690	2810	-27.08
Antimony	0.60	0.64	6.45	<0.50	<0.50	-	0.16J	0.13J	-
Arsenic	25.7	29.2	12.75	3.2	<0.50	-	2.8	2.5	-11.32
Barium	421	478	12.68	102	61.2	-50.00	276	241	-13.54
Beryllium	1.7	1.5	-12.50	<0.20	<0.20	-	0.94	0.67	-33.54
Cadmium	2.4	3.0	22.22	0.28	<0.080	-	2.4	1.4	-52.63
Calcium	59500	60600	1.83	60200	58400	-3.04	58400	58300	-0.17
Chromium	19.3	22.4	14.87	2.7	0.58	-129.27	4.3	7.0	47.79
Cobalt	18.2	20.4	11.40	2.1	<0.50	-	7.2	5.3	-30.40
Copper	101	117	14.68	12.6	2.4	-136.00	54.8	36.5	-40.09
Iron	35200	40000	12.77	3740	340	-166.67	5830	4620	-23.16
Lead	102	113	10.23	10.8	1.2	-160.00	41.9	33.4	-22.58
Magnesium	15000	16100	7.07	7810	6820	-13.53	8220	8000	-2.71
Manganese	3490	4040	14.61	379	41.5	-160.52	1720	1200	-35.62
Mercury	0.63	0.21	-100.00	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	5.8	6.7	14.40	2.0	1.3	-42.42	0.42J	0.20J	-
Nickel	30.5	35.2	14.31	7.2	4.3	-50.43	16.1	11.4	-34.18
Potassium	4090	4430	7.98	1430	698	-68.80	1160	1110	-4.41
Selenium	2.8	2.9	3.51	1.1	0.68	-47.19	2.8	2.2	-24.00
Silver	1.1	1.5	30.77	<0.50	<0.50	-	0.82	0.56	-37.68
Sodium	3470	3580	3.12	3250	3070	-5.70	3160	3150	-0.32
Thallium	0.56	0.56	0.00	<0.10	<0.10	-	0.052J	<1.0	-
Vanadium	39.9	45.3	12.68	4.8	0.50	-162.26	5.9	5.2	-12.61
Zinc	351	394	11.54	42.1	7.4	-140.20	176	123	-35.45
Alkalinity, Bicarbonate (CaCO3, mg/L)	104	103	-0.97	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	104	103	-0.97	-	-	-	-	-	-
Chloride (mg/L)	3.4	3.4	0.00	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	210000	217000	3.28	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	<0.10	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	234	221	-5.71	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.18	0.17	-5.71	-	-	-	-	-	-
Silica	60200	70200	15.34	-	-	-	-	-	-
Sulfate (mg/L)	57.3	60.3	5.10	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	199	182	-8.92	-	-	-	-	-	-
TOC (mg/L)	3.7	3.5	-5.56	-	-	-	-	-	-
TSS (mg/L)	217	503	79.44	-	-	-	-	-	-

Table 5C - Relative Percent Difference (RPD) of Lab Analysis Between MW-103 and DR-10

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	MW-103 (µg/L)	DR-10 (µg/L)	RPD (%)	MW-103 (µg/L)	DR-10 (µg/L)	RPD (%)	MW-103 (µg/L)	DR-10 (µg/L)	RPD (%)
Aluminum	864	523	-49.17	44.4	20.9	-71.98	200	121	-49.22
Antimony	<0.50	<0.5	-	<0.50	<0.5	-	<1.0	<1	-
Arsenic	5.6	4.3	-26.26	2.9	2.8	-3.51	3.3	2.9	-12.90
Barium	37.5	34.9	-7.18	28.8	28.4	-1.40	28.8	28.1	-2.46
Beryllium	0.47	0.38	-21.18	0.36	0.34	-5.71	0.48J	0.47J	-
Cadmium	0.54	0.36	-40.00	0.17	0.14	-19.35	0.58	0.47J	-
Calcium	342000	351000	2.60	316000	316000	0.00	304000	298000	-1.99
Chromium	0.97	<0.5	-	<0.50	<0.5	-	0.77J	1.3	-
Cobalt	3.1	3.6	14.93	5.2	7.5	36.22	3.5	3.4	-2.90
Copper	3.3	2.1	-44.44	0.84	1	17.39	1.9	1.3	-37.50
Iron	9330	8330	-11.33	7090	6930	-2.28	7360	7190	-2.34
Lead	3.2	1.9	-50.98	0.21	0.11	-62.50	2.7	1.5	-57.14
Magnesium	34000	34400	1.17	32700	33700	3.01	31200	30700	-1.62
Manganese	8660	8890	2.62	8640	8660	0.23	7620	7690	0.91
Mercury	<0.20	<0.2	-	<0.20	<0.2	-	<0.20	<0.2	-
Molybdenum	7.5	7.5	0.00	7.5	7.6	1.32	6.8	7.1	4.32
Nickel	2.3	2	-13.95	1.8	4.9	92.54	0.57J	0.96J	-
Potassium	4130	4030	-2.45	4020	3980	-1.00	4030	3960	-1.75
Selenium	<0.50	<0.5	-	<0.50	<0.5	-	<1.0	<1	-
Silver	<0.50	<0.5	-	<0.50	<0.5	-	0.10J	0.12J	-
Sodium	16500	16500	0.00	15000	14500	-3.39	14800	14500	-2.05
Thallium	<0.10	<0.1	-	<0.10	<0.1	-	0.28J	0.28J	-
Vanadium	1.4	0.82	-52.25	<0.10	<0.1	-	<1.0	<1	-
Zinc	146	136	-7.09	121	124	2.45	131	134	2.26
Alkalinity, Bicarbonate (CaCO3, mg/L)	315	321	1.89	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	315	321	1.89	-	-	-	-	-	-
Chloride (mg/L)	1.2	1.3	8.00	-	-	-	-	-	-
Cyanide	0.0062	0.0065	4.72	-	-	-	-	-	-
Hardness	994000	1020000	2.58	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	<0.1	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	994	1040	4.52	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.78	0.81	3.77	-	-	-	-	-	-
Silica	27700	27100	-2.19	-	-	-	-	-	-
Sulfate (mg/L)	652	649	-0.46	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.05	-	-	-	-	-	-	-
TDS (mg/L)	1160	1150	-0.87	-	-	-	-	-	-
TOC (mg/L)	2.3	2.4	4.26	-	-	-	-	-	-
TSS (mg/L)	50.7	22.7	-76.29	-	-	-	-	-	-

Table 5D - Relative Percent Difference (RPD) of Lab Analysis Between DR-6 and DR-11

Analyte	Total Metals / Non Metals			Dissolved Metals			Potentially Dissolved Metals		
	DR-6 (µg/L)	DR-11 (µg/L)	RPD (%)	DR-6 (µg/L)	DR-11 (µg/L)	RPD (%)	DR-6 (µg/L)	DR-11 (µg/L)	RPD (%)
Aluminum	27.2	27.1	-0.37	5.5	5.9	7.02	21.5J	6.1J	-
Antimony	<0.50	<0.50	-	<0.50	<0.50	-	0.14J	0.14J	-
Arsenic	<0.50	<0.50	-	<0.50	<0.50	-	<1.0	<1.0	-
Barium	21.8	22.4	2.71	20.1	20.2	0.50	20.1	19.4	-3.54
Beryllium	<0.20	<0.20	-	<0.20	<0.20	-	0.20J	<0.50	-
Cadmium	5.3	5.1	-3.85	3.2	3.0	-6.45	5.1	4.9	-4.00
Calcium	316000	326000	3.12	284000	278000	-2.14	284000	281000	-1.06
Chromium	<0.50	1.1	-	<0.50	0.73	-	0.44J	0.44J	-
Cobalt	1.7	1.7	0.00	1.7	1.8	5.71	1.6	1.5	-6.45
Copper	3.3	3.2	-3.08	0.96	1.4	37.29	3.0	2.9	-3.39
Iron	503	516	2.55	132	96.4	-31.17	485	458	-5.73
Lead	0.87	0.89	2.27	0.14	0.12	-15.38	0.98J	0.88J	-
Magnesium	27100	27400	1.10	26000	25100	-3.52	24600	24500	-0.41
Manganese	1540	1570	1.93	1480	1460	-1.36	1400	1350	-3.64
Mercury	<0.20	<0.20	-	<0.20	<0.20	-	<0.20	<0.20	-
Molybdenum	12.3	12.4	0.81	12.5	12.3	-1.61	12.9	12.4	-3.95
Nickel	3.0	3.6	18.18	3.2	6.1	62.37	1.8	1.8	0.00
Potassium	6310	6480	2.66	6340	6330	-0.16	6310	6170	-2.24
Selenium	<0.50	<0.50	-	<0.50	<0.50	-	<1.0	<1.0	-
Silver	<0.50	<0.50	-	<0.50	<0.50	-	0.097J	0.097J	-
Sodium	17200	17600	2.30	15400	15200	-1.31	14400	14200	-1.40
Thallium	<0.10	<0.10	-	<0.10	<0.10	-	0.26J	0.26J	-
Vanadium	<0.10	<0.10	-	<0.10	<0.10	-	<1.0	<1.0	-
Zinc	1840	1920	4.26	1710	1670	-2.37	1680	1620	-3.64
Alkalinity, Bicarbonate (CaCO3, mg/L)	144	146	1.38	-	-	-	-	-	-
Alkalinity, Carbonate (CaCO3, mg/L)	<20.0	<20.0	-	-	-	-	-	-	-
Alkalinity, Total as CaCO3 (mg/L)	144	146	1.38	-	-	-	-	-	-
Chloride (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
Cyanide	<0.0050	<0.0050	-	-	-	-	-	-	-
Hardness	900000	927000	2.96	-	-	-	-	-	-
Nitrogen, NO2 plus NO3 (mg/L)	<0.10	<0.10	-	-	-	-	-	-	-
Salinity, as dissolved solids (mg/L)	917	927	1.08	-	-	-	-	-	-
Salinity, as sea water (PSU)	0.72	0.72	0.00	-	-	-	-	-	-
Silica	20300	21100	3.86	-	-	-	-	-	-
Sulfate (mg/L)	721	730	1.24	-	-	-	-	-	-
Sulfide (mg/L)	<0.050	<0.050	-	-	-	-	-	-	-
TDS (mg/L)	1150	1110	-3.54	-	-	-	-	-	-
TOC (mg/L)	<1.0	<1.0	-	-	-	-	-	-	-
TSS (mg/L)	<5.0	<5.0	-	-	-	-	-	-	-

Appendix C

Project Narrative and Laboratory Analytical Reports

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

April 26, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60141898001	**GW-1_20130403**	Water	04/03/13 11:35	04/05/13 08:45
60141898002	**GW-3_20130403**	Water	04/03/13 10:48	04/05/13 08:45
60141898003	**GW-4_20130402**	Water	04/02/13 15:05	04/05/13 08:45
60141898004	**GW-5_20130402**	Water	04/02/13 15:45	04/05/13 08:45
60141898005	**GW-7_20130402**	Water	04/02/13 14:45	04/05/13 08:45
60141898006	**MW-101_20130402**	Water	04/02/13 14:25	04/05/13 08:45
60141898007	**MW-102_20130402**	Water	04/02/13 14:20	04/05/13 08:45
60141898008	**MW-204_20130402**	Water	04/03/13 10:50	04/05/13 08:45
60141898009	**AT-2_20130403**	Water	04/03/13 12:00	04/05/13 08:45
60141898010	**DR-9_20130403**	Water	04/03/13 11:40	04/05/13 08:45
60141898011	**GW-3_20130403**	Water	04/03/13 13:05	04/05/13 08:45
60141898012	**GW-3_20130403**	Water	04/03/13 15:30	04/05/13 08:45

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60141898001	**GW-1_20130403**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898002	**GW-3_20130403**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
60141898003	**GW-4_20130402**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898004	**GW-5_20130402**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898005	**GW-7_20130402**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898006	**MW-101_20130402**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898007	**MW-102_20130402**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	AJM	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898008	**MW-204_20130402**	EPA 200.7	TDS	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898009	**AT-2_20130403**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898010	**DR-9_20130403**	EPA 200.7	TDS	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	JGP	19	PASI-K

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60141898011	**GW-3_20130403**	SM 2510B	WT1	1	
		Calculated	WT1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 2540D	JML	1	PASI-K
		EPA 300.0	OL	2	PASI-K
60141898012	**GW-3_20130403**	SM 4500-S-2 D	OL	1	PASI-K
		EPA 353.2	JML	1	PASI-K
		SM 5310C	JML	1	PASI-K

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/38432

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-102_20130402 (Lab ID: 60141898007)
  - Thallium
- MW-204_20130402 (Lab ID: 60141898008)
  - Thallium

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/22242

B: Analyte was detected in the associated method blank.

- BLANK for HBN 286347 [MPRP/222 (Lab ID: 1167694)
  - Chromium, Dissolved

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/22242

1e: Serial Dilution - 10.8% D

- GW-3_20130403 (Lab ID: 60141898002)
  - Vanadium, Dissolved

2e: Serial Dilution - 13.3% D

- GW-3_20130403 (Lab ID: 60141898002)
  - Lead, Dissolved

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 2510B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for Calculated. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/40621

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60141734001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1166160)
  - Sulfide, Total

QC Batch: WET/40622

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60141863004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1166163)
  - Sulfide, Total

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 4500-CN-E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/24150

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60141704002,60141898003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1166208)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: April 26, 2013

General Information:
10 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-1_20130403 **Lab ID: 60141898001** Collected: 04/03/13 11:35 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**58400**	ug/L	100	1	04/10/13 15:30	04/16/13 12:46	7440-70-2	
Magnesium, Dissolved	**8220**	ug/L	50.0	1	04/10/13 15:30	04/16/13 12:46	7439-95-4	
Potassium, Dissolved	**1160**	ug/L	500	1	04/10/13 15:30	04/16/13 12:46	7440-09-7	
Sodium, Dissolved	**3160**	ug/L	500	1	04/10/13 15:30	04/16/13 12:46	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**17400**	ug/L	4.0	1	04/10/13 11:48	04/12/13 03:25	7429-90-5	
Antimony	**0.60**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-36-0	
Arsenic	**25.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-38-2	
Barium	**421**	ug/L	0.30	1	04/10/13 11:48	04/12/13 03:25	7440-39-3	
Beryllium	**1.7**	ug/L	1.0	5	04/10/13 11:48	04/13/13 02:21	7440-41-7	
Cadmium	**2.4**	ug/L	0.080	1	04/10/13 11:48	04/12/13 03:25	7440-43-9	
Calcium	**59500**	ug/L	100	5	04/10/13 11:48	04/13/13 02:21	7440-70-2	
Chromium	**19.3**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-47-3	
Cobalt	**18.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-48-4	
Copper	**101**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-50-8	
Iron	**35200**	ug/L	250	5	04/10/13 11:48	04/13/13 02:21	7439-89-6	
Lead	**102**	ug/L	0.50	5	04/10/13 11:48	04/13/13 02:21	7439-92-1	
Magnesium	**15000**	ug/L	5.0	1	04/10/13 11:48	04/12/13 03:25	7439-95-4	
Manganese	**3490**	ug/L	5.0	10	04/10/13 11:48	04/12/13 03:30	7439-96-5	
Molybdenum	**5.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7439-98-7	
Nickel	**30.5**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-02-0	
Potassium	**4090**	ug/L	20.0	1	04/10/13 11:48	04/12/13 03:25	7440-09-7	
Selenium	**2.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7782-49-2	
Silica	**60200**	ug/L	1340	25	04/10/13 11:48	04/13/13 02:26	7631-86-9	
Silver	**1.1**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:25	7440-22-4	
Sodium	**3470**	ug/L	50.0	1	04/10/13 11:48	04/12/13 03:25	7440-23-5	
Thallium	**0.56**	ug/L	0.50	5	04/10/13 11:48	04/13/13 02:21	7440-28-0	
Total Hardness by 2340B	**210000**	ug/L	355	5	04/10/13 11:48	04/13/13 02:21		
Vanadium	**39.9**	ug/L	0.10	1	04/10/13 11:48	04/12/13 03:25	7440-62-2	
Zinc	**351**	ug/L	5.0	1	04/10/13 11:48	04/12/13 03:25	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2460**	ug/L	4.0	1	04/10/13 11:43	04/11/13 15:11	7429-90-5	M6
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-36-0	
Arsenic, Dissolved	**3.2**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-38-2	
Barium, Dissolved	**102**	ug/L	0.30	1	04/10/13 11:43	04/11/13 15:11	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 15:11	7440-41-7	
Cadmium, Dissolved	**0.28**	ug/L	0.080	1	04/10/13 11:43	04/11/13 15:11	7440-43-9	
Calcium, Dissolved	**60200**	ug/L	100	5	04/10/13 11:43	04/11/13 15:32	7440-70-2	M6
Chromium, Dissolved	**2.7**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-47-3	
Cobalt, Dissolved	**2.1**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-48-4	
Copper, Dissolved	**12.6**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-50-8	
Iron, Dissolved	**3740**	ug/L	50.0	1	04/10/13 11:43	04/11/13 15:11	7439-89-6	M6
Lead, Dissolved	**10.8**	ug/L	0.10	1	04/10/13 11:43	04/11/13 15:11	7439-92-1	
Magnesium, Dissolved	**7810**	ug/L	5.0	1	04/10/13 11:43	04/11/13 15:11	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-1_20130403 **Lab ID: 60141898001** Collected: 04/03/13 11:35 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**379**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7439-96-5	
Molybdenum, Dissolved	**2.0**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7439-98-7	
Nickel, Dissolved	**7.2**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-02-0	
Potassium, Dissolved	**1430**	ug/L	20.0	1	04/10/13 11:43	04/11/13 15:11	7440-09-7	M6
Selenium, Dissolved	**1.1**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:11	7440-22-4	
Sodium, Dissolved	**3250**	ug/L	50.0	1	04/10/13 11:43	04/11/13 15:11	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 15:11	7440-28-0	
Vanadium, Dissolved	**4.8**	ug/L	0.10	1	04/10/13 11:43	04/11/13 15:11	7440-62-2	
Zinc, Dissolved	**42.1**	ug/L	5.0	1	04/10/13 11:43	04/11/13 15:11	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**3690**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:34	7429-90-5	
Antimony, Dissolved	**0.16J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-36-0	
Arsenic, Dissolved	**2.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-38-2	
Barium, Dissolved	**276**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-39-3	
Beryllium, Dissolved	**0.94**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:34	7440-41-7	
Cadmium, Dissolved	**2.4**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:34	7440-43-9	
Chromium, Dissolved	**4.3**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-47-3	
Cobalt, Dissolved	**7.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-48-4	
Copper, Dissolved	**54.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-50-8	
Iron, Dissolved	**5830**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:34	7439-89-6	
Lead, Dissolved	**41.9**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7439-92-1	
Manganese, Dissolved	**1720**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7439-96-5	
Molybdenum, Dissolved	**0.42J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7439-98-7	
Nickel, Dissolved	**16.1**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-02-0	
Selenium, Dissolved	**2.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7782-49-2	
Silver, Dissolved	**0.82**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:34	7440-22-4	
Thallium, Dissolved	**0.052J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-28-0	
Vanadium, Dissolved	**5.9**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:34	7440-62-2	
Zinc, Dissolved	**176**	ug/L	10.0	1	04/10/13 15:30	04/19/13 12:34	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.63**	ug/L	0.20	1	04/17/13 08:21	04/18/13 10:32	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 11:45	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 12:59	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**366**	umhos/cm	10.0	1		04/10/13 11:37		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**234**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-1_20130403 **Lab ID: 60141898001** Collected: 04/03/13 11:35 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.18**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Total as CaCO3	**104**	mg/L	20.0	1		04/16/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**199**	mg/L	5.0	1		04/10/13 14:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**217**	mg/L	5.0	1		04/09/13 14:00		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 11:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.4**	mg/L	1.0	1		04/15/13 10:38	16887-00-6	
Sulfate	**57.3**	mg/L	5.0	5		04/15/13 11:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/16/13 14:32		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/10/13 12:19	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.7**	mg/L	1.0	1		04/22/13 10:09	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-3_20130403 **Lab ID: 60141898002** Collected: 04/03/13 10:48 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**142000**	ug/L	100	1	04/10/13 15:30	04/16/13 12:48	7440-70-2	
Magnesium, Dissolved	**16800**	ug/L	50.0	1	04/10/13 15:30	04/16/13 12:48	7439-95-4	
Potassium, Dissolved	**2710**	ug/L	500	1	04/10/13 15:30	04/16/13 12:48	7440-09-7	
Sodium, Dissolved	**3090**	ug/L	500	1	04/10/13 15:30	04/16/13 12:48	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**17100**	ug/L	4.0	1	04/10/13 11:48	04/12/13 03:34	7429-90-5	
Antimony	**0.75**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-36-0	
Arsenic	**30.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-38-2	
Barium	**321**	ug/L	0.30	1	04/10/13 11:48	04/12/13 03:34	7440-39-3	
Beryllium	**0.79**	ug/L	0.40	2	04/10/13 11:48	04/13/13 02:30	7440-41-7	
Cadmium	**2.3**	ug/L	0.080	1	04/10/13 11:48	04/12/13 03:34	7440-43-9	
Calcium	**143000**	ug/L	200	10	04/10/13 11:48	04/12/13 03:40	7440-70-2	
Chromium	**26.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-47-3	
Cobalt	**11.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-48-4	
Copper	**118**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-50-8	
Iron	**33400**	ug/L	100	2	04/10/13 11:48	04/13/13 02:30	7439-89-6	
Lead	**294**	ug/L	0.20	2	04/10/13 11:48	04/13/13 02:30	7439-92-1	
Magnesium	**25900**	ug/L	10.0	2	04/10/13 11:48	04/13/13 02:30	7439-95-4	
Manganese	**1800**	ug/L	5.0	10	04/10/13 11:48	04/12/13 03:40	7439-96-5	
Molybdenum	**4.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7439-98-7	
Nickel	**18.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-02-0	
Potassium	**4750**	ug/L	20.0	1	04/10/13 11:48	04/12/13 03:34	7440-09-7	
Selenium	**39.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7782-49-2	
Silica	**63400**	ug/L	1070	20	04/10/13 11:48	04/13/13 02:35	7631-86-9	
Silver	**2.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:34	7440-22-4	
Sodium	**3280**	ug/L	50.0	1	04/10/13 11:48	04/12/13 03:34	7440-23-5	
Thallium	**0.36**	ug/L	0.20	2	04/10/13 11:48	04/13/13 02:30	7440-28-0	
Total Hardness by 2340B	**464000**	ug/L	710	10	04/10/13 11:48	04/12/13 03:40		
Vanadium	**38.1**	ug/L	0.10	1	04/10/13 11:48	04/12/13 03:34	7440-62-2	
Zinc	**619**	ug/L	10.0	2	04/10/13 11:48	04/13/13 02:30	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**8.0**	ug/L	4.0	1	04/10/13 11:43	04/11/13 15:41	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-38-2	
Barium, Dissolved	**24.2**	ug/L	0.30	1	04/10/13 11:43	04/11/13 15:41	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 15:41	7440-41-7	
Cadmium, Dissolved	**0.10**	ug/L	0.080	1	04/10/13 11:43	04/11/13 15:41	7440-43-9	
Calcium, Dissolved	**147000**	ug/L	200	10	04/10/13 11:43	04/11/13 15:45	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-48-4	
Copper, Dissolved	**1.8**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/10/13 11:43	04/11/13 15:41	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 15:41	7439-92-1	
Magnesium, Dissolved	**15400**	ug/L	5.0	1	04/10/13 11:43	04/11/13 15:41	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-3_20130403 **Lab ID: 60141898002** Collected: 04/03/13 10:48 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**4.3**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7439-96-5	
Molybdenum, Dissolved	**0.71**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7439-98-7	
Nickel, Dissolved	**3.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-02-0	
Potassium, Dissolved	**2090**	ug/L	20.0	1	04/10/13 11:43	04/11/13 15:41	7440-09-7	
Selenium, Dissolved	**36.9**	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 15:41	7440-22-4	
Sodium, Dissolved	**2870**	ug/L	50.0	1	04/10/13 11:43	04/11/13 15:41	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 15:41	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 15:41	7440-62-2	
Zinc, Dissolved	**18.7**	ug/L	5.0	1	04/10/13 11:43	04/11/13 15:41	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4830**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:39	7429-90-5	
Antimony, Dissolved	**0.30J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-36-0	
Arsenic, Dissolved	**9.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-38-2	
Barium, Dissolved	**77.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-39-3	
Beryllium, Dissolved	**0.65**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:39	7440-41-7	
Cadmium, Dissolved	**4.5**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:39	7440-43-9	
Chromium, Dissolved	**9.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-47-3	
Cobalt, Dissolved	**9.3**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-48-4	
Copper, Dissolved	**126**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-50-8	
Iron, Dissolved	**11700**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:39	7439-89-6	
Lead, Dissolved	**160**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7439-92-1	2e
Manganese, Dissolved	**2110**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7439-96-5	
Molybdenum, Dissolved	**0.36J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7439-98-7	
Nickel, Dissolved	**10.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-02-0	
Selenium, Dissolved	**40.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7782-49-2	
Silver, Dissolved	**1.6**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:39	7440-22-4	
Thallium, Dissolved	**0.033J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-28-0	
Vanadium, Dissolved	**7.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:39	7440-62-2	1e
Zinc, Dissolved	**675**	ug/L	10.0	1	04/10/13 15:30	04/19/13 12:39	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 10:41	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 11:48	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:06	7439-97-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0052**	mg/L	0.0050	1		04/10/13 12:20	57-12-5	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-4_20130402 **Lab ID: 60141898003** Collected: 04/02/13 15:05 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**134000**	ug/L	100	1	04/10/13 15:30	04/16/13 12:50	7440-70-2	
Magnesium, Dissolved	**15500**	ug/L	50.0	1	04/10/13 15:30	04/16/13 12:50	7439-95-4	
Potassium, Dissolved	**2920**	ug/L	500	1	04/10/13 15:30	04/16/13 12:50	7440-09-7	
Sodium, Dissolved	**4830**	ug/L	500	1	04/10/13 15:30	04/16/13 12:50	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**42300**	ug/L	20.0	5	04/10/13 11:48	04/13/13 02:40	7429-90-5	
Antimony	**0.75**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-36-0	
Arsenic	**28.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-38-2	
Barium	**726**	ug/L	1.5	5	04/10/13 11:48	04/13/13 02:40	7440-39-3	
Beryllium	**2.7**	ug/L	1.0	5	04/10/13 11:48	04/13/13 02:40	7440-41-7	
Cadmium	**8.0**	ug/L	0.080	1	04/10/13 11:48	04/12/13 03:44	7440-43-9	
Calcium	**138000**	ug/L	200	10	04/10/13 11:48	04/12/13 03:50	7440-70-2	
Chromium	**68.1**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-47-3	
Cobalt	**23.5**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-48-4	
Copper	**168**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-50-8	
Iron	**80300**	ug/L	250	5	04/10/13 11:48	04/13/13 02:40	7439-89-6	
Lead	**181**	ug/L	0.50	5	04/10/13 11:48	04/13/13 02:40	7439-92-1	
Magnesium	**39400**	ug/L	25.0	5	04/10/13 11:48	04/13/13 02:40	7439-95-4	
Manganese	**1950**	ug/L	2.5	5	04/10/13 11:48	04/13/13 02:40	7439-96-5	
Molybdenum	**21.6**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7439-98-7	
Nickel	**50.1**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-02-0	
Potassium	**7340**	ug/L	20.0	1	04/10/13 11:48	04/12/13 03:44	7440-09-7	
Selenium	**4.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7782-49-2	
Silica	**118000**	ug/L	1340	25	04/10/13 11:48	04/13/13 02:44	7631-86-9	
Silver	**3.9**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:44	7440-22-4	
Sodium	**5430**	ug/L	50.0	1	04/10/13 11:48	04/12/13 03:44	7440-23-5	
Thallium	**0.85**	ug/L	0.50	5	04/10/13 11:48	04/13/13 02:40	7440-28-0	
Total Hardness by 2340B	**508000**	ug/L	710	10	04/10/13 11:48	04/12/13 03:50		
Vanadium	**91.3**	ug/L	0.10	1	04/10/13 11:48	04/12/13 03:44	7440-62-2	
Zinc	**1110**	ug/L	25.0	5	04/10/13 11:48	04/13/13 02:40	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.3**	ug/L	4.0	1	04/10/13 11:43	04/11/13 16:10	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-36-0	
Arsenic, Dissolved	**1.7**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-38-2	
Barium, Dissolved	**33.9**	ug/L	0.30	1	04/10/13 11:43	04/11/13 16:10	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 16:10	7440-41-7	
Cadmium, Dissolved	**0.19**	ug/L	0.080	1	04/10/13 11:43	04/11/13 16:10	7440-43-9	
Calcium, Dissolved	**122000**	ug/L	200	10	04/10/13 11:43	04/11/13 16:14	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-47-3	
Cobalt, Dissolved	**1.0**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-48-4	
Copper, Dissolved	**0.65**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-50-8	
Iron, Dissolved	**112**	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:10	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:10	7439-92-1	
Magnesium, Dissolved	**12100**	ug/L	5.0	1	04/10/13 11:43	04/11/13 16:10	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-4_20130402 **Lab ID: 60141898003** Collected: 04/02/13 15:05 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**514**	ug/L	5.0	10	04/10/13 11:43	04/11/13 16:14	7439-96-5	
Molybdenum, Dissolved	**10.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7439-98-7	
Nickel, Dissolved	**2.3**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-02-0	
Potassium, Dissolved	**1970**	ug/L	20.0	1	04/10/13 11:43	04/11/13 16:10	7440-09-7	
Selenium, Dissolved	**0.57**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:10	7440-22-4	
Sodium, Dissolved	**4560**	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:10	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:10	7440-28-0	
Vanadium, Dissolved	**0.17**	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:10	7440-62-2	
Zinc, Dissolved	**16.8**	ug/L	5.0	1	04/10/13 11:43	04/11/13 16:10	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6160**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:55	7429-90-5	
Antimony, Dissolved	**0.31J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-36-0	
Arsenic, Dissolved	**6.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-38-2	
Barium, Dissolved	**117**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-39-3	
Beryllium, Dissolved	**1.3**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:55	7440-41-7	
Cadmium, Dissolved	**7.7**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:55	7440-43-9	
Chromium, Dissolved	**13.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-47-3	
Cobalt, Dissolved	**9.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-48-4	
Copper, Dissolved	**112**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-50-8	
Iron, Dissolved	**18900**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:55	7439-89-6	
Lead, Dissolved	**134**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7439-92-1	
Manganese, Dissolved	**1520**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7439-96-5	
Molybdenum, Dissolved	**5.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7439-98-7	
Nickel, Dissolved	**16.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-02-0	
Selenium, Dissolved	**4.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7782-49-2	
Silver, Dissolved	**0.19J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:55	7440-22-4	
Thallium, Dissolved	**0.23J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-28-0	
Vanadium, Dissolved	**18.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:55	7440-62-2	
Zinc, Dissolved	**702**	ug/L	10.0	1	04/10/13 15:30	04/19/13 12:55	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 10:44	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 11:55	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:08	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**712**	umhos/cm	10.0	1		04/10/13 11:42		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**456**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-4_20130402 **Lab ID: 60141898003** Collected: 04/02/13 15:05 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.35**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**251**	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Total as CaCO3	**251**	mg/L	20.0	1		04/13/13 17:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**438**	mg/L	5.0	1		04/09/13 13:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1870**	mg/L	5.0	1		04/08/13 13:23		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	**1.3**	mg/L	0.050	1		04/07/13 10:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.7**	mg/L	1.0	1		04/15/13 13:00	16887-00-6	
Sulfate	**203**	mg/L	20.0	20		04/15/13 13:18	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/16/13 14:33		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/08/13 12:40	57-12-5	M1
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.3**	mg/L	1.0	1		04/22/13 10:40	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-5_20130402 **Lab ID: 60141898004** Collected: 04/02/13 15:45 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**304000**	ug/L	100	1	04/10/13 15:30	04/16/13 13:01	7440-70-2	
Magnesium, Dissolved	**26500**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:01	7439-95-4	
Potassium, Dissolved	**3930**	ug/L	500	1	04/10/13 15:30	04/16/13 13:01	7440-09-7	
Sodium, Dissolved	**7480**	ug/L	500	1	04/10/13 15:30	04/16/13 13:01	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**7190**	ug/L	4.0	1	04/10/13 11:48	04/12/13 03:54	7429-90-5	
Antimony	**1.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7440-36-0	
Arsenic	**137**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7440-38-2	
Barium	**71.7**	ug/L	0.30	1	04/10/13 11:48	04/12/13 03:54	7440-39-3	
Beryllium	**0.71**	ug/L	0.40	2	04/10/13 11:48	04/13/13 01:45	7440-41-7	
Cadmium	**68.7**	ug/L	0.080	1	04/10/13 11:48	04/12/13 03:54	7440-43-9	
Calcium	**294000**	ug/L	400	20	04/10/13 11:48	04/13/13 01:50	7440-70-2	
Chromium	**9.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7440-47-3	
Cobalt	**18.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7440-48-4	
Copper	**1060**	ug/L	5.0	10	04/10/13 11:48	04/12/13 03:59	7440-50-8	
Iron	**32600**	ug/L	100	2	04/10/13 11:48	04/13/13 01:45	7439-89-6	
Lead	**11700**	ug/L	10.0	100	04/10/13 11:48	04/13/13 01:54	7439-92-1	
Magnesium	**25900**	ug/L	10.0	2	04/10/13 11:48	04/13/13 01:45	7439-95-4	
Manganese	**3580**	ug/L	5.0	10	04/10/13 11:48	04/12/13 03:59	7439-96-5	
Molybdenum	**16.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7439-98-7	
Nickel	**27.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7440-02-0	
Potassium	**4320**	ug/L	20.0	1	04/10/13 11:48	04/12/13 03:54	7440-09-7	
Selenium	**3.1**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7782-49-2	
Silica	**48200**	ug/L	1070	20	04/10/13 11:48	04/13/13 01:50	7631-86-9	
Silver	**50.5**	ug/L	0.50	1	04/10/13 11:48	04/12/13 03:54	7440-22-4	
Sodium	**6900**	ug/L	50.0	1	04/10/13 11:48	04/12/13 03:54	7440-23-5	
Thallium	**1.1**	ug/L	0.20	2	04/10/13 11:48	04/13/13 01:45	7440-28-0	
Total Hardness by 2340B	**840000**	ug/L	1420	20	04/10/13 11:48	04/13/13 01:50		
Vanadium	**11.8**	ug/L	0.10	1	04/10/13 11:48	04/12/13 03:54	7440-62-2	
Zinc	**16700**	ug/L	500	100	04/10/13 11:48	04/13/13 01:54	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**74.0**	ug/L	4.0	1	04/10/13 11:43	04/11/13 16:19	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-36-0	
Arsenic, Dissolved	**35.6**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-38-2	
Barium, Dissolved	**10.2**	ug/L	0.30	1	04/10/13 11:43	04/11/13 16:19	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 16:19	7440-41-7	
Cadmium, Dissolved	**0.68**	ug/L	0.080	1	04/10/13 11:43	04/11/13 16:19	7440-43-9	
Calcium, Dissolved	**277000**	ug/L	400	20	04/10/13 11:43	04/13/13 00:29	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-47-3	
Cobalt, Dissolved	**1.9**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-48-4	
Copper, Dissolved	**8.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-50-8	
Iron, Dissolved	**3020**	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:19	7439-89-6	
Lead, Dissolved	**127**	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:19	7439-92-1	
Magnesium, Dissolved	**22200**	ug/L	5.0	1	04/10/13 11:43	04/11/13 16:19	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-5_20130402 **Lab ID: 60141898004** Collected: 04/02/13 15:45 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1660**	ug/L	5.0	10	04/10/13 11:43	04/11/13 16:24	7439-96-5	
Molybdenum, Dissolved	**6.8**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7439-98-7	
Nickel, Dissolved	**2.7**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-02-0	
Potassium, Dissolved	**3000**	ug/L	20.0	1	04/10/13 11:43	04/11/13 16:19	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:19	7440-22-4	
Sodium, Dissolved	**7200**	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:19	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:19	7440-28-0	
Vanadium, Dissolved	**0.18**	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:19	7440-62-2	
Zinc, Dissolved	**2480**	ug/L	50.0	10	04/10/13 11:43	04/11/13 16:24	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**11100**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:59	7429-90-5	
Antimony, Dissolved	**0.096J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-36-0	
Arsenic, Dissolved	**159**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-38-2	
Barium, Dissolved	**18.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-39-3	
Beryllium, Dissolved	**1.7**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:59	7440-41-7	
Cadmium, Dissolved	**56.9**	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:59	7440-43-9	
Chromium, Dissolved	**11.1**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-47-3	
Cobalt, Dissolved	**17.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-48-4	
Copper, Dissolved	**12.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-50-8	
Iron, Dissolved	**49700**	ug/L	50.0	1	04/10/13 15:30	04/19/13 12:59	7439-89-6	
Lead, Dissolved	**4060**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7439-92-1	
Manganese, Dissolved	**4930**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7439-96-5	
Molybdenum, Dissolved	**0.74J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7439-98-7	
Nickel, Dissolved	**35.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-02-0	
Selenium, Dissolved	**5.1**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 15:30	04/19/13 12:59	7440-22-4	
Thallium, Dissolved	**0.38J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-28-0	
Vanadium, Dissolved	**21.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 12:59	7440-62-2	
Zinc, Dissolved	**45800**	ug/L	100	10	04/10/13 15:30	04/19/13 13:37	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 10:46	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 11:58	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:15	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1440**	umhos/cm	10.0	1		04/10/13 11:44		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**922**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-5_20130402 **Lab ID: 60141898004** Collected: 04/02/13 15:45 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.72**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**167**	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Total as CaCO3	**167**	mg/L	20.0	1		04/13/13 17:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1140**	mg/L	5.0	1		04/09/13 13:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**203**	mg/L	5.0	1		04/08/13 13:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 10:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		04/15/13 13:35	16887-00-6	
Sulfate	**675**	mg/L	100	100		04/15/13 13:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/16/13 14:36		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/08/13 12:44	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	1.0	1		04/22/13 10:48	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-7_20130402 **Lab ID: 60141898005** Collected: 04/02/13 14:45 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**279000**	ug/L	100	1	04/10/13 15:30	04/16/13 13:08	7440-70-2	
Magnesium, Dissolved	**27500**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:08	7439-95-4	
Potassium, Dissolved	**3030**	ug/L	500	1	04/10/13 15:30	04/16/13 13:08	7440-09-7	
Sodium, Dissolved	**9590**	ug/L	500	1	04/10/13 15:30	04/16/13 13:08	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**9890**	ug/L	4.0	1	04/10/13 11:48	04/12/13 04:05	7429-90-5	
Antimony	**0.58**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-36-0	
Arsenic	**12.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-38-2	
Barium	**41.0**	ug/L	0.30	1	04/10/13 11:48	04/12/13 04:05	7440-39-3	
Beryllium	**1.2**	ug/L	0.40	2	04/10/13 11:48	04/13/13 02:49	7440-41-7	
Cadmium	**5.4**	ug/L	0.080	1	04/10/13 11:48	04/12/13 04:05	7440-43-9	
Calcium	**277000**	ug/L	400	20	04/10/13 11:48	04/15/13 13:39	7440-70-2	
Chromium	**16.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-47-3	
Cobalt	**4.3**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-48-4	
Copper	**147**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-50-8	
Iron	**22000**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:05	7439-89-6	
Lead	**471**	ug/L	0.20	2	04/10/13 11:48	04/13/13 02:49	7439-92-1	
Magnesium	**33000**	ug/L	10.0	2	04/10/13 11:48	04/13/13 02:49	7439-95-4	
Manganese	**219**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7439-96-5	
Molybdenum	**4.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7439-98-7	
Nickel	**12.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-02-0	
Potassium	**3870**	ug/L	20.0	1	04/10/13 11:48	04/12/13 04:05	7440-09-7	
Selenium	**8.1**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7782-49-2	
Silica	**38200**	ug/L	535	10	04/10/13 11:48	04/13/13 02:54	7631-86-9	
Silver	**2.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:05	7440-22-4	
Sodium	**8780**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:05	7440-23-5	
Thallium	**0.40**	ug/L	0.20	2	04/10/13 11:48	04/13/13 02:49	7440-28-0	
Total Hardness by 2340B	**828000**	ug/L	1420	20	04/10/13 11:48	04/15/13 13:39		
Vanadium	**12.8**	ug/L	0.10	1	04/10/13 11:48	04/12/13 04:05	7440-62-2	
Zinc	**806**	ug/L	10.0	2	04/10/13 11:48	04/13/13 02:49	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**70.7**	ug/L	4.0	1	04/10/13 11:43	04/11/13 16:28	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-38-2	
Barium, Dissolved	**12.5**	ug/L	0.30	1	04/10/13 11:43	04/11/13 16:28	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 16:28	7440-41-7	
Cadmium, Dissolved	**2.9**	ug/L	0.080	1	04/10/13 11:43	04/11/13 16:28	7440-43-9	
Calcium, Dissolved	**273000**	ug/L	400	20	04/10/13 11:43	04/13/13 00:33	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-47-3	
Cobalt, Dissolved	**0.71**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-48-4	
Copper, Dissolved	**4.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:28	7439-89-6	
Lead, Dissolved	**4.6**	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:28	7439-92-1	
Magnesium, Dissolved	**28300**	ug/L	50.0	10	04/10/13 11:43	04/11/13 16:33	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-7_20130402 **Lab ID: 60141898005** Collected: 04/02/13 14:45 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**48.3**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7439-98-7	
Nickel, Dissolved	**2.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-02-0	
Potassium, Dissolved	**2490**	ug/L	20.0	1	04/10/13 11:43	04/11/13 16:28	7440-09-7	
Selenium, Dissolved	**2.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:28	7440-22-4	
Sodium, Dissolved	**9280**	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:28	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:28	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:28	7440-62-2	
Zinc, Dissolved	**157**	ug/L	5.0	1	04/10/13 11:43	04/11/13 16:28	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5080**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:03	7429-90-5	
Antimony, Dissolved	**0.14J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-36-0	
Arsenic, Dissolved	**3.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-38-2	
Barium, Dissolved	**19.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-39-3	
Beryllium, Dissolved	**0.89**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:03	7440-41-7	
Cadmium, Dissolved	**4.0**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:03	7440-43-9	
Chromium, Dissolved	**6.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-47-3	
Cobalt, Dissolved	**2.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-48-4	
Copper, Dissolved	**131**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-50-8	
Iron, Dissolved	**9190**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:03	7439-89-6	
Lead, Dissolved	**389**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7439-92-1	
Manganese, Dissolved	**91.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7439-96-5	
Molybdenum, Dissolved	**0.70J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7439-98-7	
Nickel, Dissolved	**7.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-02-0	
Selenium, Dissolved	**5.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7782-49-2	
Silver, Dissolved	**0.49J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:03	7440-22-4	
Thallium, Dissolved	**0.19J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-28-0	
Vanadium, Dissolved	**2.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:03	7440-62-2	
Zinc, Dissolved	**513**	ug/L	10.0	1	04/10/13 15:30	04/19/13 13:03	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 10:56	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 12:05	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:17	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1410**	umhos/cm	10.0	1		04/10/13 11:56		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**900**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-7_20130402 **Lab ID: 60141898005** Collected: 04/02/13 14:45 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.70**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**243**	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Total as CaCO3	**243**	mg/L	20.0	1		04/13/13 17:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1030**	mg/L	5.0	1		04/09/13 13:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**309**	mg/L	5.0	1		04/08/13 13:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 10:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.0**	mg/L	1.0	1		04/15/13 14:11	16887-00-6	
Sulfate	**576**	mg/L	100	100		04/15/13 15:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.35**	mg/L	0.10	1		04/16/13 14:37		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/08/13 12:45	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		04/22/13 10:55	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-101_20130402 **Lab ID: 60141898006** Collected: 04/02/13 14:25 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**318000**	ug/L	100	1	04/10/13 15:30	04/16/13 13:10	7440-70-2	
Magnesium, Dissolved	**45800**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:10	7439-95-4	
Potassium, Dissolved	**7620**	ug/L	500	1	04/10/13 15:30	04/16/13 13:10	7440-09-7	
Sodium, Dissolved	**26400**	ug/L	500	1	04/10/13 15:30	04/16/13 13:10	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**5020**	ug/L	4.0	1	04/10/13 11:48	04/12/13 04:28	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-36-0	
Arsenic	**6.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-38-2	
Barium	**80.1**	ug/L	0.30	1	04/10/13 11:48	04/12/13 04:28	7440-39-3	
Beryllium	**0.58**	ug/L	0.40	2	04/10/13 11:48	04/13/13 03:12	7440-41-7	
Cadmium	**1.9**	ug/L	0.080	1	04/10/13 11:48	04/12/13 04:28	7440-43-9	
Calcium	**324000**	ug/L	400	20	04/10/13 11:48	04/13/13 03:17	7440-70-2	
Chromium	**7.9**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-47-3	
Cobalt	**37.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-48-4	
Copper	**37.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-50-8	
Iron	**32400**	ug/L	100	2	04/10/13 11:48	04/13/13 03:12	7439-89-6	
Lead	**423**	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:12	7439-92-1	
Magnesium	**51200**	ug/L	50.0	10	04/10/13 11:48	04/12/13 04:33	7439-95-4	
Manganese	**7360**	ug/L	10.0	20	04/10/13 11:48	04/13/13 03:17	7439-96-5	
Molybdenum	**4.9**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7439-98-7	
Nickel	**23.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-02-0	
Potassium	**7720**	ug/L	20.0	1	04/10/13 11:48	04/12/13 04:28	7440-09-7	
Selenium	**2.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7782-49-2	
Silica	**33400**	ug/L	1070	20	04/10/13 11:48	04/13/13 03:17	7631-86-9	
Silver	**2.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:28	7440-22-4	
Sodium	**25300**	ug/L	100	2	04/10/13 11:48	04/13/13 03:12	7440-23-5	
Thallium	**0.22**	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:12	7440-28-0	
Total Hardness by 2340B	**1020000**	ug/L	1420	20	04/10/13 11:48	04/13/13 03:17		
Vanadium	**7.9**	ug/L	0.10	1	04/10/13 11:48	04/12/13 04:28	7440-62-2	
Zinc	**609**	ug/L	10.0	2	04/10/13 11:48	04/13/13 03:12	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**204**	ug/L	4.0	1	04/10/13 11:43	04/13/13 00:37	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-36-0	
Arsenic, Dissolved	**1.3**	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-38-2	
Barium, Dissolved	**29.1**	ug/L	0.30	1	04/10/13 11:43	04/13/13 00:37	7440-39-3	
Beryllium, Dissolved	**0.23**	ug/L	0.20	1	04/10/13 11:43	04/13/13 00:37	7440-41-7	
Cadmium, Dissolved	**0.15**	ug/L	0.080	1	04/10/13 11:43	04/13/13 00:37	7440-43-9	
Calcium, Dissolved	**303000**	ug/L	400	20	04/10/13 11:43	04/13/13 00:42	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-47-3	
Cobalt, Dissolved	**34.4**	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-50-8	
Iron, Dissolved	**19300**	ug/L	50.0	1	04/10/13 11:43	04/13/13 00:37	7439-89-6	
Lead, Dissolved	**1.2**	ug/L	0.10	1	04/10/13 11:43	04/13/13 00:37	7439-92-1	
Magnesium, Dissolved	**49000**	ug/L	50.0	10	04/10/13 11:43	04/11/13 16:42	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-101_20130402 **Lab ID: 60141898006** Collected: 04/02/13 14:25 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**6640**	ug/L	10.0	20	04/10/13 11:43	04/13/13 00:42	7439-96-5	
Molybdenum, Dissolved	**2.2**	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7439-98-7	
Nickel, Dissolved	**18.3**	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-02-0	
Potassium, Dissolved	**6960**	ug/L	20.0	1	04/10/13 11:43	04/13/13 00:37	7440-09-7	
Selenium, Dissolved	**1.7**	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/13/13 00:37	7440-22-4	
Sodium, Dissolved	**25900**	ug/L	500	10	04/10/13 11:43	04/11/13 16:42	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/13/13 00:37	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/13/13 00:37	7440-62-2	
Zinc, Dissolved	**378**	ug/L	5.0	1	04/10/13 11:43	04/13/13 00:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1310**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:16	7429-90-5	
Antimony, Dissolved	**0.13J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-36-0	
Arsenic, Dissolved	**2.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-38-2	
Barium, Dissolved	**36.1**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-39-3	
Beryllium, Dissolved	**0.40J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:16	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:16	7440-43-9	
Chromium, Dissolved	**3.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-47-3	
Cobalt, Dissolved	**33.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-48-4	
Copper, Dissolved	**15.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-50-8	
Iron, Dissolved	**23300**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:16	7439-89-6	
Lead, Dissolved	**245**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7439-92-1	
Manganese, Dissolved	**7540**	ug/L	10.0	10	04/10/13 15:30	04/19/13 13:41	7439-96-5	
Molybdenum, Dissolved	**0.91J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7439-98-7	
Nickel, Dissolved	**19.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-02-0	
Selenium, Dissolved	**2.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:16	7440-22-4	
Thallium, Dissolved	**0.065J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-28-0	
Vanadium, Dissolved	**2.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:16	7440-62-2	
Zinc, Dissolved	**465**	ug/L	10.0	1	04/10/13 15:30	04/19/13 13:16	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 10:59	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 12:07	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:19	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1800**	umhos/cm	10.0	1		04/10/13 11:58		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1150**	mg/L	6.4	1		04/10/13 15:30		

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-101_20130402 **Lab ID: 60141898006** Collected: 04/02/13 14:25 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.91**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**255**	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Total as CaCO3	**255**	mg/L	20.0	1		04/13/13 17:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1290**	mg/L	5.0	1		04/09/13 13:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**852**	mg/L	5.0	1		04/08/13 13:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 10:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.5**	mg/L	1.0	1		04/15/13 16:21	16887-00-6	
Sulfate	**788**	mg/L	100	100		04/16/13 15:48	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.33**	mg/L	0.10	1		04/16/13 14:38		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/08/13 12:45	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	1.0	1		04/22/13 11:17	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-102_20130402 **Lab ID: 60141898007** Collected: 04/02/13 14:20 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**232000**	ug/L	100	1	04/10/13 15:30	04/16/13 13:12	7440-70-2	
Magnesium, Dissolved	**22300**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:12	7439-95-4	
Potassium, Dissolved	**2240**	ug/L	500	1	04/10/13 15:30	04/16/13 13:12	7440-09-7	
Sodium, Dissolved	**7010**	ug/L	500	1	04/10/13 15:30	04/16/13 13:12	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**6370**	ug/L	4.0	1	04/10/13 11:48	04/12/13 04:38	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-36-0	
Arsenic	**8.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-38-2	
Barium	**54.4**	ug/L	0.30	1	04/10/13 11:48	04/12/13 04:38	7440-39-3	
Beryllium	**0.68**	ug/L	0.40	2	04/10/13 11:48	04/13/13 03:21	7440-41-7	
Cadmium	**1.2**	ug/L	0.080	1	04/10/13 11:48	04/12/13 04:38	7440-43-9	
Calcium	**234000**	ug/L	400	20	04/10/13 11:48	04/13/13 03:25	7440-70-2	
Chromium	**8.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-47-3	
Cobalt	**8.6**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-48-4	
Copper	**24.5**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-50-8	
Iron	**9290**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:38	7439-89-6	
Lead	**44.1**	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:21	7439-92-1	
Magnesium	**25900**	ug/L	10.0	2	04/10/13 11:48	04/13/13 03:21	7439-95-4	
Manganese	**1120**	ug/L	5.0	10	04/10/13 11:48	04/12/13 04:42	7439-96-5	
Molybdenum	**3.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7439-98-7	
Nickel	**8.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-02-0	
Potassium	**3030**	ug/L	20.0	1	04/10/13 11:48	04/12/13 04:38	7440-09-7	
Selenium	**2.3**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7782-49-2	
Silica	**30400**	ug/L	1070	20	04/10/13 11:48	04/13/13 03:25	7631-86-9	
Silver	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:38	7440-22-4	
Sodium	**6630**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:38	7440-23-5	
Thallium	ND	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:21	7440-28-0	D3
Total Hardness by 2340B	**691000**	ug/L	1420	20	04/10/13 11:48	04/13/13 03:25		
Vanadium	**10.5**	ug/L	0.10	1	04/10/13 11:48	04/12/13 04:38	7440-62-2	
Zinc	**271**	ug/L	5.0	1	04/10/13 11:48	04/12/13 04:38	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6.4**	ug/L	4.0	1	04/10/13 11:43	04/11/13 16:46	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-38-2	
Barium, Dissolved	**13.7**	ug/L	0.30	1	04/10/13 11:43	04/11/13 16:46	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 16:46	7440-41-7	
Cadmium, Dissolved	**0.22**	ug/L	0.080	1	04/10/13 11:43	04/11/13 16:46	7440-43-9	
Calcium, Dissolved	**228000**	ug/L	400	20	04/10/13 11:43	04/13/13 01:18	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-48-4	
Copper, Dissolved	**0.59**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:46	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:46	7439-92-1	
Magnesium, Dissolved	**22000**	ug/L	5.0	1	04/10/13 11:43	04/11/13 16:46	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-102_20130402 **Lab ID: 60141898007** Collected: 04/02/13 14:20 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**9.1**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7439-96-5	
Molybdenum, Dissolved	**0.76**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-02-0	
Potassium, Dissolved	**2010**	ug/L	20.0	1	04/10/13 11:43	04/11/13 16:46	7440-09-7	
Selenium, Dissolved	**1.5**	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 16:46	7440-22-4	
Sodium, Dissolved	**6880**	ug/L	50.0	1	04/10/13 11:43	04/11/13 16:46	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:46	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 16:46	7440-62-2	
Zinc, Dissolved	**53.0**	ug/L	5.0	1	04/10/13 11:43	04/11/13 16:46	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1840**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:20	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-36-0	
Arsenic, Dissolved	**2.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-38-2	
Barium, Dissolved	**30.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-39-3	
Beryllium, Dissolved	**0.39J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:20	7440-41-7	
Cadmium, Dissolved	**0.84**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:20	7440-43-9	
Chromium, Dissolved	**3.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-47-3	B
Cobalt, Dissolved	**3.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-48-4	
Copper, Dissolved	**12.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-50-8	
Iron, Dissolved	**2340**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:20	7439-89-6	
Lead, Dissolved	**22.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7439-92-1	
Manganese, Dissolved	**447**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7439-96-5	
Molybdenum, Dissolved	**0.22J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7439-98-7	
Nickel, Dissolved	**3.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-02-0	
Selenium, Dissolved	**2.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7782-49-2	
Silver, Dissolved	**0.11J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:20	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-28-0	
Vanadium, Dissolved	**2.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:20	7440-62-2	
Zinc, Dissolved	**176**	ug/L	10.0	1	04/10/13 15:30	04/19/13 13:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 11:01	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 12:10	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:22	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1120**	umhos/cm	10.0	1		04/10/13 12:07		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**716**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-102_20130402 **Lab ID: 60141898007** Collected: 04/02/13 14:20 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.55**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**211**	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/13/13 17:30		
Alkalinity, Total as CaCO3	**211**	mg/L	20.0	1		04/13/13 17:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**900**	mg/L	5.0	1		04/09/13 13:43		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1810**	mg/L	5.0	1		04/08/13 13:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 10:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		04/15/13 17:14	16887-00-6	
Sulfate	**503**	mg/L	50.0	50		04/16/13 16:41	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.36**	mg/L	0.10	1		04/16/13 14:39		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/08/13 12:48	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		04/22/13 11:24	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-204_20130402 **Lab ID: 60141898008** Collected: 04/03/13 10:50 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**250000**	ug/L	100	1	04/10/13 15:30	04/16/13 13:14	7440-70-2	
Magnesium, Dissolved	**22700**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:14	7439-95-4	
Potassium, Dissolved	**2210**	ug/L	500	1	04/10/13 15:30	04/16/13 13:14	7440-09-7	
Sodium, Dissolved	**11800**	ug/L	500	1	04/10/13 15:30	04/16/13 13:14	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**8500**	ug/L	4.0	1	04/10/13 11:48	04/12/13 04:47	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-36-0	
Arsenic	**3.0**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-38-2	
Barium	**102**	ug/L	0.30	1	04/10/13 11:48	04/12/13 04:47	7440-39-3	
Beryllium	**0.62**	ug/L	0.40	2	04/10/13 11:48	04/13/13 03:30	7440-41-7	
Cadmium	**7.4**	ug/L	0.080	1	04/10/13 11:48	04/12/13 04:47	7440-43-9	
Calcium	**255000**	ug/L	400	20	04/10/13 11:48	04/13/13 03:34	7440-70-2	
Chromium	**17.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-47-3	
Cobalt	**4.9**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-48-4	
Copper	**15.3**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-50-8	
Iron	**11700**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:47	7439-89-6	
Lead	**31.5**	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:30	7439-92-1	
Magnesium	**27900**	ug/L	10.0	2	04/10/13 11:48	04/13/13 03:30	7439-95-4	
Manganese	**2110**	ug/L	5.0	10	04/10/13 11:48	04/12/13 04:51	7439-96-5	
Molybdenum	**4.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7439-98-7	
Nickel	**10.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-02-0	
Potassium	**3220**	ug/L	20.0	1	04/10/13 11:48	04/12/13 04:47	7440-09-7	
Selenium	**0.52**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7782-49-2	
Silica	**45800**	ug/L	1070	20	04/10/13 11:48	04/13/13 03:34	7631-86-9	
Silver	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:47	7440-22-4	
Sodium	**11300**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:47	7440-23-5	
Thallium	ND	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:30	7440-28-0	D3
Total Hardness by 2340B	**752000**	ug/L	1420	20	04/10/13 11:48	04/13/13 03:34		
Vanadium	**14.0**	ug/L	0.10	1	04/10/13 11:48	04/12/13 04:47	7440-62-2	
Zinc	**91.8**	ug/L	5.0	1	04/10/13 11:48	04/12/13 04:47	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**48.7**	ug/L	4.0	1	04/10/13 11:43	04/11/13 17:10	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-38-2	
Barium, Dissolved	**35.3**	ug/L	0.30	1	04/10/13 11:43	04/11/13 17:10	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 17:10	7440-41-7	
Cadmium, Dissolved	**2.4**	ug/L	0.080	1	04/10/13 11:43	04/11/13 17:10	7440-43-9	
Calcium, Dissolved	**237000**	ug/L	400	20	04/10/13 11:43	04/13/13 01:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/10/13 11:43	04/11/13 17:10	7439-89-6	
Lead, Dissolved	**0.14**	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:10	7439-92-1	
Magnesium, Dissolved	**20700**	ug/L	5.0	1	04/10/13 11:43	04/11/13 17:10	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-204_20130402 **Lab ID: 60141898008** Collected: 04/03/13 10:50 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1780**	ug/L	5.0	10	04/10/13 11:43	04/11/13 17:14	7439-96-5	
Molybdenum, Dissolved	**3.7**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7439-98-7	
Nickel, Dissolved	**1.5**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-02-0	
Potassium, Dissolved	**1820**	ug/L	20.0	1	04/10/13 11:43	04/11/13 17:10	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:10	7440-22-4	
Sodium, Dissolved	**11400**	ug/L	50.0	1	04/10/13 11:43	04/11/13 17:10	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:10	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:10	7440-62-2	
Zinc, Dissolved	**11.1**	ug/L	5.0	1	04/10/13 11:43	04/11/13 17:10	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2420**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:24	7429-90-5	
Antimony, Dissolved	**0.086J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-36-0	
Arsenic, Dissolved	**0.96J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-38-2	
Barium, Dissolved	**53.3**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-39-3	
Beryllium, Dissolved	**0.40J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:24	7440-41-7	
Cadmium, Dissolved	**8.9**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:24	7440-43-9	
Chromium, Dissolved	**9.1**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-47-3	
Cobalt, Dissolved	**3.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-48-4	
Copper, Dissolved	**14.8**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-50-8	
Iron, Dissolved	**4700**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:24	7439-89-6	
Lead, Dissolved	**29.6**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7439-92-1	
Manganese, Dissolved	**2100**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7439-96-5	
Molybdenum, Dissolved	**2.3**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7439-98-7	
Nickel, Dissolved	**7.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-02-0	
Selenium, Dissolved	**0.72J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:24	7440-22-4	
Thallium, Dissolved	**0.062J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-28-0	
Vanadium, Dissolved	**4.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:24	7440-62-2	
Zinc, Dissolved	**69.5**	ug/L	10.0	1	04/10/13 15:30	04/19/13 13:24	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 11:03	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 12:12	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:24	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1310**	umhos/cm	10.0	1		04/10/13 12:09		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**838**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: MW-204_20130402 **Lab ID: 60141898008** Collected: 04/03/13 10:50 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.65**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**110**	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Total as CaCO3	**110**	mg/L	20.0	1		04/16/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1010**	mg/L	5.0	1		04/10/13 14:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**224**	mg/L	5.0	1		04/09/13 14:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 11:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		04/15/13 17:31	16887-00-6	
Sulfate	**589**	mg/L	100	100		04/16/13 16:59	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/16/13 14:39		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0090**	mg/L	0.0050	1		04/10/13 12:20	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		04/22/13 11:31	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: AT-2_20130403 **Lab ID: 60141898009** Collected: 04/03/13 12:00 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**174000**	ug/L	100	1	04/10/13 15:30	04/16/13 13:16	7440-70-2	
Magnesium, Dissolved	**15100**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:16	7439-95-4	
Potassium, Dissolved	**7270**	ug/L	500	1	04/10/13 15:30	04/16/13 13:16	7440-09-7	
Sodium, Dissolved	**11900**	ug/L	500	1	04/10/13 15:30	04/16/13 13:16	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**3660**	ug/L	4.0	1	04/10/13 11:48	04/12/13 04:55	7429-90-5	
Antimony	**0.66**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-36-0	
Arsenic	**4.5**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-38-2	
Barium	**80.9**	ug/L	0.30	1	04/10/13 11:48	04/12/13 04:55	7440-39-3	
Beryllium	**0.77**	ug/L	0.40	2	04/10/13 11:48	04/13/13 03:38	7440-41-7	
Cadmium	**3.6**	ug/L	0.080	1	04/10/13 11:48	04/12/13 04:55	7440-43-9	
Calcium	**177000**	ug/L	200	10	04/10/13 11:48	04/13/13 03:43	7440-70-2	
Chromium	**8.3**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-47-3	
Cobalt	**3.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-48-4	
Copper	**155**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-50-8	
Iron	**98500**	ug/L	500	10	04/10/13 11:48	04/13/13 03:43	7439-89-6	
Lead	**54.8**	ug/L	0.20	2	04/10/13 11:48	04/13/13 03:38	7439-92-1	
Magnesium	**17400**	ug/L	5.0	1	04/10/13 11:48	04/12/13 04:55	7439-95-4	
Manganese	**1900**	ug/L	5.0	10	04/10/13 11:48	04/13/13 03:43	7439-96-5	
Molybdenum	**20.3**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7439-98-7	
Nickel	**7.8**	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-02-0	
Potassium	**7180**	ug/L	20.0	1	04/10/13 11:48	04/12/13 04:55	7440-09-7	
Selenium	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7782-49-2	
Silica	**14200**	ug/L	535	10	04/10/13 11:48	04/13/13 03:43	7631-86-9	
Silver	ND	ug/L	0.50	1	04/10/13 11:48	04/12/13 04:55	7440-22-4	
Sodium	**11300**	ug/L	50.0	1	04/10/13 11:48	04/12/13 04:55	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/10/13 11:48	04/12/13 04:55	7440-28-0	
Total Hardness by 2340B	**514000**	ug/L	710	10	04/10/13 11:48	04/13/13 03:43		
Vanadium	**5.6**	ug/L	0.10	1	04/10/13 11:48	04/12/13 04:55	7440-62-2	
Zinc	**981**	ug/L	50.0	10	04/10/13 11:48	04/13/13 03:43	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	04/10/13 11:43	04/11/13 17:19	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-38-2	
Barium, Dissolved	**55.0**	ug/L	0.30	1	04/10/13 11:43	04/11/13 17:19	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 17:19	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/10/13 11:43	04/11/13 17:19	7440-43-9	
Calcium, Dissolved	**187000**	ug/L	200	10	04/10/13 11:43	04/11/13 17:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-50-8	
Iron, Dissolved	**81.2**	ug/L	50.0	1	04/10/13 11:43	04/11/13 17:19	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:19	7439-92-1	
Magnesium, Dissolved	**15000**	ug/L	5.0	1	04/10/13 11:43	04/11/13 17:19	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: AT-2_20130403 **Lab ID: 60141898009** Collected: 04/03/13 12:00 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**449**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7439-96-5	
Molybdenum, Dissolved	**4.1**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7439-98-7	
Nickel, Dissolved	**3.2**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-02-0	
Potassium, Dissolved	**7010**	ug/L	20.0	1	04/10/13 11:43	04/11/13 17:19	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:19	7440-22-4	
Sodium, Dissolved	**11900**	ug/L	50.0	1	04/10/13 11:43	04/11/13 17:19	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:19	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:19	7440-62-2	
Zinc, Dissolved	**6.6**	ug/L	5.0	1	04/10/13 11:43	04/11/13 17:19	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**530**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:28	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-36-0	
Arsenic, Dissolved	**0.55J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-38-2	
Barium, Dissolved	**63.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-39-3	
Beryllium, Dissolved	**0.30J**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:28	7440-41-7	
Cadmium, Dissolved	**2.1**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:28	7440-43-9	
Chromium, Dissolved	**2.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-47-3	B
Cobalt, Dissolved	**1.1**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-48-4	
Copper, Dissolved	**65.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-50-8	
Iron, Dissolved	**28400**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:28	7439-89-6	
Lead, Dissolved	**24.3**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7439-92-1	
Manganese, Dissolved	**1090**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7439-96-5	
Molybdenum, Dissolved	**1.7**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7439-98-7	
Nickel, Dissolved	**2.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:28	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-28-0	
Vanadium, Dissolved	**0.49J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:28	7440-62-2	
Zinc, Dissolved	**409**	ug/L	10.0	1	04/10/13 15:30	04/19/13 13:28	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/17/13 08:21	04/18/13 11:06	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 12:15	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:26	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**983**	umhos/cm	10.0	1		04/10/13 12:10		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**629**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: AT-2_20130403 **Lab ID: 60141898009** Collected: 04/03/13 12:00 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.48**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		04/16/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**760**	mg/L	5.0	1		04/10/13 14:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**178**	mg/L	5.0	1		04/09/13 14:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 11:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.8**	mg/L	1.0	1		04/15/13 17:49	16887-00-6	
Sulfate	**492**	mg/L	100	100		04/16/13 17:17	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/16/13 14:40		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/10/13 12:23	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	1.0	1		04/22/13 11:38	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: DR-9_20130403 **Lab ID: 60141898010** Collected: 04/03/13 11:40 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**58300**	ug/L	100	1	04/10/13 15:30	04/16/13 13:19	7440-70-2	
Magnesium, Dissolved	**8000**	ug/L	50.0	1	04/10/13 15:30	04/16/13 13:19	7439-95-4	
Potassium, Dissolved	**1110**	ug/L	500	1	04/10/13 15:30	04/16/13 13:19	7440-09-7	
Sodium, Dissolved	**3150**	ug/L	500	1	04/10/13 15:30	04/16/13 13:19	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**19600**	ug/L	4.0	1	04/10/13 11:48	04/12/13 05:04	7429-90-5	
Antimony	**0.64**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-36-0	
Arsenic	**29.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-38-2	
Barium	**478**	ug/L	1.5	5	04/10/13 11:48	04/13/13 03:47	7440-39-3	
Beryllium	**1.5**	ug/L	1.0	5	04/10/13 11:48	04/13/13 03:47	7440-41-7	
Cadmium	**3.0**	ug/L	0.080	1	04/10/13 11:48	04/12/13 05:04	7440-43-9	
Calcium	**60600**	ug/L	100	5	04/10/13 11:48	04/13/13 03:47	7440-70-2	
Chromium	**22.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-47-3	
Cobalt	**20.4**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-48-4	
Copper	**117**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-50-8	
Iron	**40000**	ug/L	250	5	04/10/13 11:48	04/13/13 03:47	7439-89-6	
Lead	**113**	ug/L	0.50	5	04/10/13 11:48	04/13/13 03:47	7439-92-1	
Magnesium	**16100**	ug/L	5.0	1	04/10/13 11:48	04/12/13 05:04	7439-95-4	
Manganese	**4040**	ug/L	5.0	10	04/10/13 11:48	04/12/13 05:09	7439-96-5	
Molybdenum	**6.7**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7439-98-7	
Nickel	**35.2**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-02-0	
Potassium	**4430**	ug/L	20.0	1	04/10/13 11:48	04/12/13 05:04	7440-09-7	
Selenium	**2.9**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7782-49-2	
Silica	**70200**	ug/L	1340	25	04/10/13 11:48	04/13/13 03:52	7631-86-9	
Silver	**1.5**	ug/L	0.50	1	04/10/13 11:48	04/12/13 05:04	7440-22-4	
Sodium	**3580**	ug/L	50.0	1	04/10/13 11:48	04/12/13 05:04	7440-23-5	
Thallium	**0.56**	ug/L	0.50	5	04/10/13 11:48	04/13/13 03:47	7440-28-0	
Total Hardness by 2340B	**217000**	ug/L	355	5	04/10/13 11:48	04/13/13 03:47		
Vanadium	**45.3**	ug/L	0.10	1	04/10/13 11:48	04/12/13 05:04	7440-62-2	
Zinc	**394**	ug/L	5.0	1	04/10/13 11:48	04/12/13 05:04	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**242**	ug/L	4.0	1	04/10/13 11:43	04/11/13 17:28	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-38-2	
Barium, Dissolved	**61.2**	ug/L	0.30	1	04/10/13 11:43	04/11/13 17:28	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/10/13 11:43	04/11/13 17:28	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/10/13 11:43	04/11/13 17:28	7440-43-9	
Calcium, Dissolved	**58400**	ug/L	200	10	04/10/13 11:43	04/11/13 17:32	7440-70-2	
Chromium, Dissolved	**0.58**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-48-4	
Copper, Dissolved	**2.4**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-50-8	
Iron, Dissolved	**340**	ug/L	50.0	1	04/10/13 11:43	04/11/13 17:28	7439-89-6	
Lead, Dissolved	**1.2**	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:28	7439-92-1	
Magnesium, Dissolved	**6820**	ug/L	5.0	1	04/10/13 11:43	04/11/13 17:28	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: DR-9_20130403 **Lab ID: 60141898010** Collected: 04/03/13 11:40 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**41.5**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7439-98-7	
Nickel, Dissolved	**4.3**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-02-0	
Potassium, Dissolved	**698**	ug/L	20.0	1	04/10/13 11:43	04/11/13 17:28	7440-09-7	
Selenium, Dissolved	**0.68**	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/10/13 11:43	04/11/13 17:28	7440-22-4	
Sodium, Dissolved	**3070**	ug/L	50.0	1	04/10/13 11:43	04/11/13 17:28	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:28	7440-28-0	
Vanadium, Dissolved	**0.50**	ug/L	0.10	1	04/10/13 11:43	04/11/13 17:28	7440-62-2	
Zinc, Dissolved	**7.4**	ug/L	5.0	1	04/10/13 11:43	04/11/13 17:28	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2810**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:33	7429-90-5	
Antimony, Dissolved	**0.13J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-36-0	
Arsenic, Dissolved	**2.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-38-2	
Barium, Dissolved	**241**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-39-3	
Beryllium, Dissolved	**0.67**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:33	7440-41-7	
Cadmium, Dissolved	**1.4**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:33	7440-43-9	
Chromium, Dissolved	**7.0**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-47-3	
Cobalt, Dissolved	**5.3**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-48-4	
Copper, Dissolved	**36.5**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-50-8	
Iron, Dissolved	**4620**	ug/L	50.0	1	04/10/13 15:30	04/19/13 13:33	7439-89-6	
Lead, Dissolved	**33.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7439-92-1	
Manganese, Dissolved	**1200**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7439-96-5	
Molybdenum, Dissolved	**0.20J**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7439-98-7	
Nickel, Dissolved	**11.4**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-02-0	
Selenium, Dissolved	**2.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7782-49-2	
Silver, Dissolved	**0.56**	ug/L	0.50	1	04/10/13 15:30	04/19/13 13:33	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-28-0	
Vanadium, Dissolved	**5.2**	ug/L	1.0	1	04/10/13 15:30	04/19/13 13:33	7440-62-2	
Zinc, Dissolved	**123**	ug/L	10.0	1	04/10/13 15:30	04/19/13 13:33	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**0.21**	ug/L	0.20	1	04/17/13 08:21	04/18/13 11:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/15/13 10:07	04/18/13 12:17	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/10/13 09:00	04/10/13 13:28	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**345**	umhos/cm	10.0	1		04/10/13 12:14		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**221**	mg/L	6.4	1		04/10/13 15:30		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: DR-9_20130403 **Lab ID: 60141898010** Collected: 04/03/13 11:40 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.17**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Total as CaCO3	**103**	mg/L	20.0	1		04/16/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**182**	mg/L	5.0	1		04/10/13 14:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**503**	mg/L	5.0	1		04/09/13 14:01		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 11:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.4**	mg/L	1.0	1		04/15/13 18:42	16887-00-6	
Sulfate	**60.3**	mg/L	5.0	5		04/16/13 17:34	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/16/13 14:41		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/10/13 12:23	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.5**	mg/L	1.0	1		04/22/13 11:46	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-3_20130403 **Lab ID: 60141898011** Collected: 04/03/13 13:05 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**757**	umhos/cm	10.0	1		04/10/13 11:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**484**	mg/L	6.4	1		04/10/13 15:30		
Salinity (as seawater)	**0.37**	PSU	0.014	1		04/10/13 15:30		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**156**	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/16/13 13:30		
Alkalinity, Total as CaCO3	**156**	mg/L	20.0	1		04/16/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**468**	mg/L	5.0	1		04/10/13 14:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**255**	mg/L	5.0	1		04/09/13 14:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		04/15/13 12:25	16887-00-6	
Sulfate	**262**	mg/L	50.0	50		04/15/13 12:42	14808-79-8	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Sample: GW-3_20130403 **Lab ID: 60141898012** Collected: 04/03/13 15:30 Received: 04/05/13 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/07/13 07:06	18496-25-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.17**	mg/L	0.10	1		04/16/13 14:32		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	1.0	1		04/22/13 10:25	7440-44-0	

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May 09, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather M. Wilson

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60142948001	**DR-4 SW_20130416**	Water	04/16/13 17:11	04/19/13 10:40
60142948002	**DR-G_20130416**	Water	04/16/13 15:35	04/19/13 10:40
60142948003	**DR-4-SW COMPOSITE_20130416**	Water	04/16/13 16:44	04/19/13 10:40
60142948004	**MW-5 DEEP_20130416**	Water	04/16/13 12:50	04/19/13 10:40
60142948005	**GW-6_20130416**	Water	04/16/13 11:35	04/19/13 10:40
60142948006	**MW-5 SHALLOW_20130416**	Water	04/16/13 12:50	04/19/13 10:40
60142948007	**P13-103_20130417**	Water	04/17/13 15:01	04/19/13 10:40
60142948008	**EB-1_20130417**	Water	04/17/13 09:45	04/19/13 10:40
60142948009	**MW-6 SHALLOW_20130417**	Water	04/17/13 10:31	04/19/13 10:40
60142948010	**P13-102_20130417**	Water	04/17/13 11:05	04/19/13 10:40
60142948011	**MW-6 DEEP_20130417**	Water	04/17/13 10:45	04/19/13 10:40
60142948012	**MW-3 DEEP_20130417**	Water	04/17/13 13:09	04/19/13 10:40
60142948013	**MW-4 SHALLOW_20130417**	Water	04/17/13 14:08	04/19/13 10:40
60142948014	**MW-4 DEEP_20130417**	Water	04/17/13 14:28	04/19/13 10:40
60142948015	**MW-1 SHALLOW_20130417**	Water	04/17/13 14:45	04/19/13 10:40
60142948016	**MW-2 DEEP_20130417**	Water	04/17/13 13:49	04/19/13 10:40
60142948017	**EB-2_20130417**	Water	04/17/13 09:55	04/19/13 10:40
60142948018	**DR-7_20130418**	Water	04/18/13 10:00	04/19/13 10:40
60142948019	**DR-7 COMPOSITE_20130418**	Water	04/18/13 10:00	04/19/13 10:40
60142948020	**DR-2_20130418**	Water	04/18/13 11:00	04/19/13 10:40
60142948021	**DR-2 COMPOSITE_20130418**	Water	04/18/13 11:00	04/19/13 10:40
60142948022	**DR-1_20130418**	Water	04/18/13 12:00	04/19/13 10:40
60142948023	**DR-1 COMPOSITE_20130418**	Water	04/18/13 12:00	04/19/13 10:40

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60142948001	**DR-4 SW_20130416**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948002	**DR-G_20130416**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948004	**MW-5 DEEP_20130416**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948005	**GW-6_20130416**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948006	**MW-5 SHALLOW_20130416**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	JML	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948007	**P13-103_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948008	**EB-1_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948009	**MW-6 SHALLOW_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948010	**P13-102_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948011	**MW-6 DEEP_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948012	**MW-3 DEEP_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948013	**MW-4 SHALLOW_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948014	**MW-4 DEEP_20130417**	EPA 200.7	JGP	4	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948015	**MW-1 SHALLOW_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	JGP, SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948016	**MW-2 DEEP_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948017	**EB-2_20130417**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948018	**DR-7_20130418**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS, TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948019	**DR-7 COMPOSITE_20130418**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	TT3	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948020	**DR-2_20130418**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948021	**DR-2 COMPOSITE_20130418**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948022	**DR-1_20130418**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60142948023	**DR-1 COMPOSITE_20130418**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	RJS	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/22466

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948016

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1177238)
  - Calcium, Dissolved
- MSD (Lab ID: 1177239)
  - Calcium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/38673

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948001,60142948011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1414904)
  - Aluminum
  - Calcium
- MS (Lab ID: 1415318)
  - Aluminum
  - Barium
  - Calcium
  - Iron
  - Magnesium
  - Manganese
  - Potassium
  - Silica
  - Zinc
- MSD (Lab ID: 1414905)

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

QC Batch: MPRP/38673

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948001,60142948011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Aluminum
- Calcium

QC Batch: MPRP/38674

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1414908)
  - Aluminum
  - Calcium
  - Magnesium
  - Silica
- MSD (Lab ID: 1414909)
  - Aluminum
  - Calcium
  - Magnesium
  - Silica
  - Sodium

Additional Comments:

Analyte Comments:

QC Batch: MPRP/38673

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-5 SHALLOW_20130416 (Lab ID: 60142948006)
  - Chromium
  - Antimony

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1414904)
  - Calcium
- MS (Lab ID: 1415318)
  - Calcium
  - Iron
  - Magnesium
  - Manganese
  - Zinc
- MSD (Lab ID: 1414905)
  - Calcium

QC Batch: MPRP/38674

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1414908)
  - Calcium

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

Analyte Comments:

QC Batch: MPRP/38674

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 1414909)
  - Calcium
  - Silica

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/38676

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948001,60142948011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1415316)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
- MSD (Lab ID: 1414917)
  - Calcium, Dissolved
  - Magnesium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

Analyte Comments:

QC Batch: MPRP/38676

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- EB-2_20130417 (Lab ID: 60142948017)
  - Silver, Dissolved
  - Chromium, Dissolved
  - Copper, Dissolved
  - Antimony, Dissolved
  - Selenium, Dissolved
  - Thallium, Dissolved
  - Vanadium, Dissolved

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1414916)
  - Calcium, Dissolved
- MS (Lab ID: 1415316)
  - Calcium, Dissolved
  - Iron, Dissolved
  - Magnesium, Dissolved
  - Manganese, Dissolved
- MSD (Lab ID: 1414917)
  - Calcium, Dissolved

QC Batch: MPRP/38677

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1414920)
  - Calcium, Dissolved
- MSD (Lab ID: 1414921)
  - Calcium, Dissolved

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/22465

B: Analyte was detected in the associated method blank.

- BLANK for HBN 288648 [MPRP/224 (Lab ID: 1177231)
  - Chromium, Dissolved

QC Batch: MPRP/22520

B: Analyte was detected in the associated method blank.

- BLANK for HBN 289094 [MPRP/225 (Lab ID: 1179393)
  - Antimony, Dissolved
  - Chromium, Dissolved

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/22465

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948002,60142948004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1177235)
  - Aluminum, Dissolved
  - Iron, Dissolved

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

QC Batch: MPRP/22465

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948002,60142948004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Lead, Dissolved
- Zinc, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: MPRP/22520

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- EB-2_20130417 (Lab ID: 60142948017)
  - Silver, Dissolved
  - Selenium, Dissolved
  - Vanadium, Dissolved

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/8299

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948002,60142948020

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1414871)
  - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 2510B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for Calculated. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 4500-CN-E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/24398

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60142948004,60143093001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1175284)
  - Cyanide

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: May 09, 2013

General Information:
23 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-4 SW_20130416 **Lab ID: 60142948001** Collected: 04/16/13 17:11 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**56200**	ug/L	100	1	04/26/13 14:30	05/02/13 10:53	7440-70-2	
Magnesium, Dissolved	**8370**	ug/L	50.0	1	04/26/13 14:30	05/02/13 10:53	7439-95-4	
Potassium, Dissolved	**1180**	ug/L	500	1	04/26/13 14:30	05/02/13 10:53	7440-09-7	
Sodium, Dissolved	**5100**	ug/L	500	1	04/26/13 14:30	05/02/13 10:53	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**118**	ug/L	4.0	1	04/27/13 08:12	05/04/13 08:20	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-38-2	
Barium	**64.7**	ug/L	0.30	1	04/27/13 08:12	05/04/13 08:20	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 08:20	7440-41-7	
Cadmium	**0.46**	ug/L	0.080	1	04/27/13 08:12	05/04/13 08:20	7440-43-9	
Calcium	**64400**	ug/L	100	5	04/27/13 08:12	05/04/13 08:26	7440-70-2	M1
Chromium	**0.66**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-48-4	
Copper	**1.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-50-8	
Iron	**231**	ug/L	50.0	1	04/27/13 08:12	05/04/13 08:20	7439-89-6	
Lead	**0.60**	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:20	7439-92-1	
Magnesium	**8520**	ug/L	5.0	1	04/27/13 08:12	05/04/13 08:20	7439-95-4	
Manganese	**121**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7439-98-7	
Nickel	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-02-0	
Potassium	**1200**	ug/L	20.0	1	04/27/13 08:12	05/04/13 08:20	7440-09-7	
Selenium	**1.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7782-49-2	
Silica	**7770**	ug/L	268	5	04/27/13 08:12	05/04/13 08:26	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:20	7440-22-4	
Sodium	**4780**	ug/L	50.0	1	04/27/13 08:12	05/04/13 08:20	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:20	7440-28-0	
Total Hardness by 2340B	**196000**	ug/L	355	5	04/27/13 08:12	05/04/13 08:26		
Vanadium	**0.31**	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:20	7440-62-2	
Zinc	**108**	ug/L	5.0	1	04/27/13 08:12	05/04/13 08:20	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4.7**	ug/L	4.0	1	04/27/13 08:12	05/03/13 16:00	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-38-2	
Barium, Dissolved	**63.0**	ug/L	0.30	1	04/27/13 08:12	05/03/13 16:00	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 16:00	7440-41-7	
Cadmium, Dissolved	**0.42**	ug/L	0.080	1	04/27/13 08:12	05/03/13 16:00	7440-43-9	
Calcium, Dissolved	**74300**	ug/L	100	5	04/27/13 08:12	04/30/13 14:14	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:00	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:00	7439-92-1	
Magnesium, Dissolved	**8810**	ug/L	5.0	1	04/27/13 08:12	05/03/13 16:00	7439-95-4	M1

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-4 SW_20130416 **Lab ID: 60142948001** Collected: 04/16/13 17:11 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**113**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7439-98-7	
Nickel, Dissolved	**0.82**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-02-0	
Potassium, Dissolved	**1190**	ug/L	20.0	1	04/27/13 08:12	05/03/13 16:00	7440-09-7	
Selenium, Dissolved	**0.91**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:00	7440-22-4	
Sodium, Dissolved	**4680**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:00	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:00	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:00	7440-62-2	
Zinc, Dissolved	**99.5**	ug/L	5.0	1	04/27/13 08:12	05/03/13 16:00	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**47.0J**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:06	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-36-0	
Arsenic, Dissolved	**0.37J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-38-2	
Barium, Dissolved	**64.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	05/01/13 13:43	7440-41-7	
Cadmium, Dissolved	**0.51**	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:06	7440-43-9	
Chromium, Dissolved	**0.98J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-47-3	B
Cobalt, Dissolved	**0.20J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-48-4	
Copper, Dissolved	**2.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-50-8	
Iron, Dissolved	**236**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:06	7439-89-6	
Lead, Dissolved	**2.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7439-92-1	
Manganese, Dissolved	**128**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7439-98-7	
Nickel, Dissolved	**0.78J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-02-0	
Selenium, Dissolved	**0.97J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:06	7440-22-4	
Thallium, Dissolved	**0.071J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:06	7440-62-2	
Zinc, Dissolved	**112**	ug/L	10.0	1	04/26/13 14:30	04/30/13 11:06	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:23	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 12:46	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:05	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**431**	umhos/cm	10.0	1		04/24/13 13:35		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**276**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-4 SW_20130416 **Lab ID: 60142948001** Collected: 04/16/13 17:11 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.21**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	20.0	1		04/27/13 07:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/27/13 07:30		
Alkalinity, Total as CaCO3	**106**	mg/L	20.0	1		04/27/13 07:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**232**	mg/L	5.0	1		04/23/13 10:33		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**7.0**	mg/L	5.0	1		04/22/13 17:35		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.7**	mg/L	1.0	1		04/30/13 09:45	16887-00-6	
Sulfate	**83.5**	mg/L	10.0	10		04/30/13 10:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:17		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:15	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	1		05/02/13 08:57	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-G_20130416 **Lab ID: 60142948002** Collected: 04/16/13 15:35 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**53400**	ug/L	100	1	04/26/13 14:30	05/02/13 11:02	7440-70-2	
Magnesium, Dissolved	**7760**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:02	7439-95-4	
Potassium, Dissolved	**1330**	ug/L	500	1	04/26/13 14:30	05/02/13 11:02	7440-09-7	
Sodium, Dissolved	**4760**	ug/L	500	1	04/26/13 14:30	05/02/13 11:02	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**104**	ug/L	4.0	1	04/27/13 08:12	05/04/13 08:45	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-38-2	
Barium	**83.2**	ug/L	0.30	1	04/27/13 08:12	05/04/13 08:45	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 08:45	7440-41-7	
Cadmium	**0.37**	ug/L	0.080	1	04/27/13 08:12	05/04/13 08:45	7440-43-9	
Calcium	**60300**	ug/L	400	20	04/27/13 08:12	05/04/13 08:52	7440-70-2	
Chromium	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-48-4	
Copper	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-50-8	
Iron	**218**	ug/L	50.0	1	04/27/13 08:12	05/04/13 08:45	7439-89-6	
Lead	**0.54**	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:45	7439-92-1	
Magnesium	**8090**	ug/L	5.0	1	04/27/13 08:12	05/04/13 08:45	7439-95-4	
Manganese	**81.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7439-96-5	
Molybdenum	**1.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7439-98-7	
Nickel	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-02-0	
Potassium	**1130**	ug/L	20.0	1	04/27/13 08:12	05/04/13 08:45	7440-09-7	
Selenium	**0.78**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7782-49-2	
Silica	**7190**	ug/L	1070	20	04/27/13 08:12	05/04/13 08:52	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:45	7440-22-4	
Sodium	**4480**	ug/L	50.0	1	04/27/13 08:12	05/04/13 08:45	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:45	7440-28-0	
Total Hardness by 2340B	**184000**	ug/L	1420	20	04/27/13 08:12	05/04/13 08:52		
Vanadium	**0.40**	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:45	7440-62-2	
Zinc	**72.5**	ug/L	5.0	1	04/27/13 08:12	05/04/13 08:45	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**10.9**	ug/L	4.0	1	04/27/13 08:12	05/03/13 15:42	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-38-2	
Barium, Dissolved	**78.6**	ug/L	0.30	1	04/27/13 08:12	05/03/13 15:42	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 15:42	7440-41-7	
Cadmium, Dissolved	**0.27**	ug/L	0.080	1	04/27/13 08:12	05/03/13 15:42	7440-43-9	
Calcium, Dissolved	**71000**	ug/L	400	20	04/27/13 08:12	04/30/13 14:42	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-48-4	
Copper, Dissolved	**1.6**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 15:42	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:42	7439-92-1	
Magnesium, Dissolved	**8150**	ug/L	5.0	1	04/27/13 08:12	05/03/13 15:42	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-G_20130416 **Lab ID: 60142948002** Collected: 04/16/13 15:35 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**55.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7439-96-5	
Molybdenum, Dissolved	**1.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7439-98-7	
Nickel, Dissolved	**4.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-02-0	
Potassium, Dissolved	**1100**	ug/L	20.0	1	04/27/13 08:12	05/03/13 15:42	7440-09-7	
Selenium, Dissolved	**0.83**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:42	7440-22-4	
Sodium, Dissolved	**4260**	ug/L	50.0	1	04/27/13 08:12	05/03/13 15:42	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:42	7440-28-0	
Vanadium, Dissolved	**0.17**	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:42	7440-62-2	
Zinc, Dissolved	**53.2**	ug/L	5.0	1	04/27/13 08:12	05/03/13 15:42	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**29.7J**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:11	7429-90-5	
Antimony, Dissolved	**0.073J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-36-0	
Arsenic, Dissolved	**0.17J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-38-2	
Barium, Dissolved	**77.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	05/01/13 13:45	7440-41-7	
Cadmium, Dissolved	**0.30J**	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:11	7440-43-9	
Chromium, Dissolved	**0.46J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-47-3	B
Cobalt, Dissolved	**0.12J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-48-4	
Copper, Dissolved	**1.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-50-8	
Iron, Dissolved	**119**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:11	7439-89-6	
Lead, Dissolved	**6.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7439-92-1	
Manganese, Dissolved	**70.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7439-96-5	
Molybdenum, Dissolved	**1.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7439-98-7	
Nickel, Dissolved	**0.57J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-02-0	
Selenium, Dissolved	**0.77J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:11	7440-22-4	
Thallium, Dissolved	**0.023J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:11	7440-62-2	
Zinc, Dissolved	**80.4**	ug/L	10.0	1	04/26/13 14:30	04/30/13 11:11	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:26	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 12:48	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:07	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**399**	umhos/cm	10.0	1		04/24/13 13:37		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**256**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-G_20130416 **Lab ID: 60142948002** Collected: 04/16/13 15:35 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.19**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	20.0	1		04/27/13 07:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/27/13 07:30		
Alkalinity, Total as CaCO3	**114**	mg/L	20.0	1		04/27/13 07:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**215**	mg/L	5.0	1		04/23/13 10:34		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		04/22/13 17:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.3**	mg/L	1.0	1		04/30/13 12:07	16887-00-6	
Sulfate	**68.8**	mg/L	10.0	10		04/30/13 12:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:18		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:16	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	1		05/02/13 09:12	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-4-SW COMPOSITE_20130416 **Lab ID: 60142948003** Collected: 04/16/13 16:44 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**56400**	ug/L	100	1	04/26/13 14:30	05/02/13 11:04	7440-70-2	
Magnesium, Dissolved	**8360**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:04	7439-95-4	
Potassium, Dissolved	**1260**	ug/L	500	1	04/26/13 14:30	05/02/13 11:04	7440-09-7	
Sodium, Dissolved	**5180**	ug/L	500	1	04/26/13 14:30	05/02/13 11:04	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**144**	ug/L	4.0	1	04/27/13 08:12	05/04/13 08:58	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-38-2	
Barium	**67.5**	ug/L	0.30	1	04/27/13 08:12	05/04/13 08:58	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 08:58	7440-41-7	
Cadmium	**0.51**	ug/L	0.080	1	04/27/13 08:12	05/04/13 08:58	7440-43-9	
Calcium	**64800**	ug/L	400	20	04/27/13 08:12	05/04/13 09:04	7440-70-2	
Chromium	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-48-4	
Copper	**1.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-50-8	
Iron	**296**	ug/L	50.0	1	04/27/13 08:12	05/04/13 08:58	7439-89-6	
Lead	**0.70**	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:58	7439-92-1	
Magnesium	**8720**	ug/L	5.0	1	04/27/13 08:12	05/04/13 08:58	7439-95-4	
Manganese	**133**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7439-98-7	
Nickel	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-02-0	
Potassium	**1230**	ug/L	20.0	1	04/27/13 08:12	05/04/13 08:58	7440-09-7	
Selenium	**0.98**	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7782-49-2	
Silica	**8080**	ug/L	1070	20	04/27/13 08:12	05/04/13 09:04	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 08:58	7440-22-4	
Sodium	**4900**	ug/L	50.0	1	04/27/13 08:12	05/04/13 08:58	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:58	7440-28-0	
Total Hardness by 2340B	**198000**	ug/L	1420	20	04/27/13 08:12	05/04/13 09:04		
Vanadium	**0.36**	ug/L	0.10	1	04/27/13 08:12	05/04/13 08:58	7440-62-2	
Zinc	**113**	ug/L	5.0	1	04/27/13 08:12	05/04/13 08:58	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.4**	ug/L	4.0	1	04/27/13 08:12	05/03/13 15:46	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-38-2	
Barium, Dissolved	**63.2**	ug/L	0.30	1	04/27/13 08:12	05/03/13 15:46	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 15:46	7440-41-7	
Cadmium, Dissolved	**0.45**	ug/L	0.080	1	04/27/13 08:12	05/03/13 15:46	7440-43-9	
Calcium, Dissolved	**76500**	ug/L	400	20	04/27/13 08:12	04/30/13 14:47	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-48-4	
Copper, Dissolved	**2.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 15:46	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:46	7439-92-1	
Magnesium, Dissolved	**8690**	ug/L	5.0	1	04/27/13 08:12	05/03/13 15:46	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-4-SW COMPOSITE_20130416 **Lab ID: 60142948003** Collected: 04/16/13 16:44 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**114**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7439-96-5	
Molybdenum, Dissolved	**1.2**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7439-98-7	
Nickel, Dissolved	**4.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-02-0	
Potassium, Dissolved	**1170**	ug/L	20.0	1	04/27/13 08:12	05/03/13 15:46	7440-09-7	
Selenium, Dissolved	**0.97**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:46	7440-22-4	
Sodium, Dissolved	**4620**	ug/L	50.0	1	04/27/13 08:12	05/03/13 15:46	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:46	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:46	7440-62-2	
Zinc, Dissolved	**99.2**	ug/L	5.0	1	04/27/13 08:12	05/03/13 15:46	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**37.6J**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:27	7429-90-5	
Antimony, Dissolved	**0.10J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-36-0	
Arsenic, Dissolved	**0.31J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-38-2	
Barium, Dissolved	**63.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	05/01/13 13:53	7440-41-7	
Cadmium, Dissolved	**0.49J**	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:27	7440-43-9	
Chromium, Dissolved	**0.42J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-47-3	B
Cobalt, Dissolved	**0.21J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-48-4	
Copper, Dissolved	**1.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-50-8	
Iron, Dissolved	**154**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:27	7439-89-6	
Lead, Dissolved	**7.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7439-92-1	
Manganese, Dissolved	**120**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7439-98-7	
Nickel, Dissolved	**0.47J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-02-0	
Selenium, Dissolved	**1.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:27	7440-22-4	
Thallium, Dissolved	**0.075J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:27	7440-62-2	
Zinc, Dissolved	**123**	ug/L	10.0	1	04/26/13 14:30	04/30/13 11:27	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:33	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 12:55	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:14	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**406**	umhos/cm	10.0	1		04/24/13 13:38		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-4-SW COMPOSITE_20130416 **Lab ID: 60142948003** Collected: 04/16/13 16:44 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**260**	mg/L	6.4	1		04/26/13 13:35		
Salinity (as seawater)	**0.20**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	20.0	1		04/27/13 07:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/27/13 07:30		
Alkalinity, Total as CaCO3	**104**	mg/L	20.0	1		04/27/13 07:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**233**	mg/L	5.0	1		04/23/13 10:34		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		04/22/13 17:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.7**	mg/L	1.0	1		04/30/13 12:42	16887-00-6	
Sulfate	**83.0**	mg/L	10.0	10		04/30/13 13:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:19		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:19	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	1		05/02/13 09:27	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-5 DEEP_20130416 **Lab ID: 60142948004** Collected: 04/16/13 12:50 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**282000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:08	7440-70-2	
Magnesium, Dissolved	**42100**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:08	7439-95-4	
Potassium, Dissolved	**7540**	ug/L	500	1	04/26/13 14:30	05/02/13 11:08	7440-09-7	
Sodium, Dissolved	**7720**	ug/L	500	1	04/26/13 14:30	05/02/13 11:08	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**12000**	ug/L	4.0	1	04/27/13 08:12	05/04/13 09:29	7429-90-5	
Antimony	**1.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-36-0	
Arsenic	**287**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-38-2	
Barium	**90.5**	ug/L	0.30	1	04/27/13 08:12	05/04/13 09:29	7440-39-3	
Beryllium	**3.4**	ug/L	0.20	1	04/27/13 08:12	05/04/13 09:29	7440-41-7	
Cadmium	**13.4**	ug/L	0.080	1	04/27/13 08:12	05/04/13 09:29	7440-43-9	
Calcium	**332000**	ug/L	400	20	04/27/13 08:12	05/04/13 09:36	7440-70-2	
Chromium	**8.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-47-3	
Cobalt	**14.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-48-4	
Copper	**241**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-50-8	
Iron	**97500**	ug/L	1000	20	04/27/13 08:12	05/04/13 09:36	7439-89-6	
Lead	**3320**	ug/L	2.0	20	04/27/13 08:12	05/04/13 09:36	7439-92-1	
Magnesium	**51300**	ug/L	100	20	04/27/13 08:12	05/04/13 09:36	7439-95-4	
Manganese	**18600**	ug/L	100	200	04/27/13 08:12	04/28/13 15:50	7439-96-5	
Molybdenum	**12.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7439-98-7	
Nickel	**15.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-02-0	
Potassium	**8660**	ug/L	20.0	1	04/27/13 08:12	05/04/13 09:29	7440-09-7	
Selenium	**1.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7782-49-2	
Silica	**62200**	ug/L	1070	20	04/27/13 08:12	05/04/13 09:36	7631-86-9	
Silver	**4.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:29	7440-22-4	
Sodium	**7420**	ug/L	50.0	1	04/27/13 08:12	05/04/13 09:29	7440-23-5	
Thallium	**0.63**	ug/L	0.10	1	04/27/13 08:12	05/04/13 09:29	7440-28-0	
Total Hardness by 2340B	**1040000**	ug/L	1420	20	04/27/13 08:12	05/04/13 09:36		
Vanadium	**19.9**	ug/L	0.10	1	04/27/13 08:12	05/04/13 09:29	7440-62-2	
Zinc	**18800**	ug/L	1000	200	04/27/13 08:12	04/28/13 15:50	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**630**	ug/L	4.0	1	04/27/13 08:12	05/03/13 15:51	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-36-0	
Arsenic, Dissolved	**115**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-38-2	
Barium, Dissolved	**14.6**	ug/L	0.30	1	04/27/13 08:12	05/03/13 15:51	7440-39-3	
Beryllium, Dissolved	**1.3**	ug/L	0.20	1	04/27/13 08:12	05/03/13 15:51	7440-41-7	
Cadmium, Dissolved	**0.38**	ug/L	0.080	1	04/27/13 08:12	05/03/13 15:51	7440-43-9	
Calcium, Dissolved	**379000**	ug/L	400	20	04/27/13 08:12	04/30/13 15:17	7440-70-2	
Chromium, Dissolved	**0.64**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-47-3	
Cobalt, Dissolved	**6.6**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-48-4	
Copper, Dissolved	**6.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-50-8	
Iron, Dissolved	**50400**	ug/L	1000	20	04/27/13 08:12	04/30/13 15:17	7439-89-6	
Lead, Dissolved	**58.5**	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:51	7439-92-1	
Magnesium, Dissolved	**45000**	ug/L	100	20	04/27/13 08:12	04/30/13 15:17	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-5 DEEP_20130416 **Lab ID: 60142948004** Collected: 04/16/13 12:50 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8470**	ug/L	10.0	20	04/27/13 08:12	04/30/13 15:17	7439-96-5	
Molybdenum, Dissolved	**9.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7439-98-7	
Nickel, Dissolved	**6.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-02-0	
Potassium, Dissolved	**6900**	ug/L	20.0	1	04/27/13 08:12	05/03/13 15:51	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:51	7440-22-4	
Sodium, Dissolved	**6880**	ug/L	50.0	1	04/27/13 08:12	05/03/13 15:51	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:51	7440-28-0	
Vanadium, Dissolved	**0.55**	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:51	7440-62-2	
Zinc, Dissolved	**5600**	ug/L	100	20	04/27/13 08:12	04/30/13 15:17	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4900**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:31	7429-90-5	M1
Antimony, Dissolved	**0.21J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-36-0	
Arsenic, Dissolved	**209**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-38-2	
Barium, Dissolved	**15.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-39-3	
Beryllium, Dissolved	**2.0**	ug/L	0.50	1	04/26/13 14:30	05/01/13 13:55	7440-41-7	
Cadmium, Dissolved	**7.4**	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:31	7440-43-9	
Chromium, Dissolved	**5.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-47-3	
Cobalt, Dissolved	**9.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-48-4	
Copper, Dissolved	**147**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-50-8	
Iron, Dissolved	**48700**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:31	7439-89-6	M1
Lead, Dissolved	**1920**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7439-92-1	M1
Manganese, Dissolved	**8450**	ug/L	10.0	10	04/26/13 14:30	04/30/13 12:59	7439-96-5	M6
Molybdenum, Dissolved	**3.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7439-98-7	
Nickel, Dissolved	**10.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-02-0	
Selenium, Dissolved	**1.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:31	7440-22-4	
Thallium, Dissolved	**0.39J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-28-0	
Vanadium, Dissolved	**8.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:31	7440-62-2	
Zinc, Dissolved	**6780**	ug/L	10.0	1	04/26/13 14:30	04/30/13 11:31	7440-66-6	M1
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:36	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 12:58	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:16	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1680**	umhos/cm	10.0	1		04/24/13 13:39		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1080**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-5 DEEP_20130416 **Lab ID: 60142948004** Collected: 04/16/13 12:50 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.85**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**122**	mg/L	20.0	1		04/29/13 08:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 08:00		
Alkalinity, Total as CaCO3	**122**	mg/L	20.0	1		04/29/13 08:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1020**	mg/L	5.0	1		04/23/13 10:35		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**554**	mg/L	5.0	1		04/22/13 17:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.6**	mg/L	1.0	1		04/30/13 13:18	16887-00-6	
Sulfate	**897**	mg/L	100	100		04/30/13 13:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:19		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:20	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		05/02/13 09:35	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: GW-6_20130416 **Lab ID: 60142948005** Collected: 04/16/13 11:35 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**328000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:15	7440-70-2	
Magnesium, Dissolved	**41000**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:15	7439-95-4	
Potassium, Dissolved	**8440**	ug/L	500	1	04/26/13 14:30	05/02/13 13:27	7440-09-7	
Sodium, Dissolved	**7180**	ug/L	500	1	04/26/13 14:30	05/02/13 13:27	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**20400**	ug/L	4.0	1	04/27/13 08:12	05/04/13 09:42	7429-90-5	
Antimony	**3.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7440-36-0	
Arsenic	**253**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7440-38-2	
Barium	**119**	ug/L	0.30	1	04/27/13 08:12	05/04/13 09:42	7440-39-3	
Beryllium	**2.8**	ug/L	0.20	1	04/27/13 08:12	05/04/13 09:42	7440-41-7	
Cadmium	**58.8**	ug/L	0.080	1	04/27/13 08:12	05/04/13 09:42	7440-43-9	
Calcium	**377000**	ug/L	400	20	04/27/13 08:12	05/04/13 09:49	7440-70-2	
Chromium	**23.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7440-47-3	
Cobalt	**21.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7440-48-4	
Copper	**699**	ug/L	10.0	20	04/27/13 08:12	05/04/13 09:49	7440-50-8	
Iron	**111000**	ug/L	1000	20	04/27/13 08:12	05/04/13 09:49	7439-89-6	
Lead	**8830**	ug/L	2.0	20	04/27/13 08:12	05/04/13 09:49	7439-92-1	
Magnesium	**55400**	ug/L	100	20	04/27/13 08:12	05/04/13 09:49	7439-95-4	
Manganese	**9370**	ug/L	100	200	04/27/13 08:12	04/30/13 20:56	7439-96-5	
Molybdenum	**10.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7439-98-7	
Nickel	**31.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7440-02-0	
Potassium	**11800**	ug/L	20.0	1	04/27/13 08:12	05/04/13 09:42	7440-09-7	
Selenium	**3.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7782-49-2	
Silica	**94500**	ug/L	1070	20	04/27/13 08:12	05/04/13 09:49	7631-86-9	
Silver	**18.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 09:42	7440-22-4	
Sodium	**7090**	ug/L	50.0	1	04/27/13 08:12	05/04/13 09:42	7440-23-5	
Thallium	**1.3**	ug/L	0.10	1	04/27/13 08:12	05/04/13 09:42	7440-28-0	
Total Hardness by 2340B	**1170000**	ug/L	1420	20	04/27/13 08:12	05/04/13 09:49		
Vanadium	**40.5**	ug/L	0.10	1	04/27/13 08:12	05/04/13 09:42	7440-62-2	
Zinc	**19300**	ug/L	1000	200	04/27/13 08:12	04/30/13 20:56	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**45.4**	ug/L	4.0	1	04/27/13 08:12	05/03/13 15:56	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-36-0	
Arsenic, Dissolved	**61.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-38-2	
Barium, Dissolved	**14.8**	ug/L	0.30	1	04/27/13 08:12	05/03/13 15:56	7440-39-3	
Beryllium, Dissolved	**0.39**	ug/L	0.20	1	04/27/13 08:12	05/03/13 15:56	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/27/13 08:12	05/03/13 15:56	7440-43-9	
Calcium, Dissolved	**437000**	ug/L	400	20	04/27/13 08:12	04/30/13 15:31	7440-70-2	
Chromium, Dissolved	**1.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-47-3	
Cobalt, Dissolved	**2.9**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-50-8	
Iron, Dissolved	**29700**	ug/L	1000	20	04/27/13 08:12	04/30/13 15:31	7439-89-6	
Lead, Dissolved	**1.8**	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:56	7439-92-1	
Magnesium, Dissolved	**41800**	ug/L	100	20	04/27/13 08:12	04/30/13 15:31	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: GW-6_20130416 **Lab ID: 60142948005** Collected: 04/16/13 11:35 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**5940**	ug/L	10.0	20	04/27/13 08:12	04/30/13 15:31	7439-96-5	
Molybdenum, Dissolved	**6.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7439-98-7	
Nickel, Dissolved	**7.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-02-0	
Potassium, Dissolved	**7860**	ug/L	20.0	1	04/27/13 08:12	05/03/13 15:56	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 15:56	7440-22-4	
Sodium, Dissolved	**6570**	ug/L	50.0	1	04/27/13 08:12	05/03/13 15:56	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:56	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 15:56	7440-62-2	
Zinc, Dissolved	**9610**	ug/L	1000	200	04/27/13 08:12	04/30/13 15:36	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**3440**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:56	7429-90-5	
Antimony, Dissolved	**0.55J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-36-0	
Arsenic, Dissolved	**135**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-38-2	
Barium, Dissolved	**19.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-39-3	
Beryllium, Dissolved	**1.0**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:08	7440-41-7	
Cadmium, Dissolved	**14.2**	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:56	7440-43-9	
Chromium, Dissolved	**5.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-47-3	
Cobalt, Dissolved	**6.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-48-4	
Copper, Dissolved	**141**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-50-8	
Iron, Dissolved	**39100**	ug/L	50.0	1	04/26/13 14:30	04/30/13 11:56	7439-89-6	
Lead, Dissolved	**3260**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7439-92-1	
Manganese, Dissolved	**6780**	ug/L	10.0	10	04/26/13 14:30	04/30/13 13:07	7439-96-5	
Molybdenum, Dissolved	**4.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7439-98-7	
Nickel, Dissolved	**6.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-02-0	
Selenium, Dissolved	**0.58J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 11:56	7440-22-4	
Thallium, Dissolved	**0.27J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-28-0	
Vanadium, Dissolved	**8.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 11:56	7440-62-2	
Zinc, Dissolved	**10600**	ug/L	10.0	1	04/26/13 14:30	04/30/13 11:56	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:45	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:05	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:23	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1700**	umhos/cm	10.0	1		04/24/13 13:41		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1090**	mg/L	6.4	1		04/26/13 13:35		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: GW-6_20130416 **Lab ID: 60142948005** Collected: 04/16/13 11:35 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.86**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**198**	mg/L	20.0	1		04/29/13 08:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 08:00		
Alkalinity, Total as CaCO3	**198**	mg/L	20.0	1		04/29/13 08:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1390**	mg/L	5.0	1		04/23/13 10:35		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**688**	mg/L	5.0	1		04/22/13 17:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		04/30/13 13:53	16887-00-6	
Sulfate	**944**	mg/L	100	100		04/30/13 14:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.11**	mg/L	0.10	1		04/26/13 12:20		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:23	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.5**	mg/L	1.0	1		05/02/13 09:44	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-5 SHALLOW_20130416 **Lab ID: 60142948006** Collected: 04/16/13 12:50 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**406000**	ug/L	500	5	04/26/13 14:30	05/02/13 11:17	7440-70-2	
Magnesium, Dissolved	**123000**	ug/L	250	5	04/26/13 14:30	05/02/13 11:17	7439-95-4	
Potassium, Dissolved	**2470**	ug/L	2000	4	04/26/13 14:30	05/02/13 16:36	7440-09-7	
Sodium, Dissolved	**20500**	ug/L	2500	5	04/26/13 14:30	05/02/13 13:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**26400**	ug/L	20.0	5	04/27/13 08:12	05/04/13 09:55	7429-90-5	
Antimony	ND	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-36-0	D3
Arsenic	**382**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-38-2	
Barium	**46.6**	ug/L	1.5	5	04/27/13 08:12	05/04/13 09:55	7440-39-3	
Beryllium	**7.4**	ug/L	1.0	5	04/27/13 08:12	05/04/13 09:55	7440-41-7	
Cadmium	**195**	ug/L	0.40	5	04/27/13 08:12	05/04/13 09:55	7440-43-9	
Calcium	**466000**	ug/L	1000	50	04/27/13 08:12	05/04/13 10:02	7440-70-2	
Chromium	ND	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-47-3	D3
Cobalt	**95.8**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-48-4	
Copper	**876**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-50-8	
Iron	**477000**	ug/L	2500	50	04/27/13 08:12	05/04/13 10:02	7439-89-6	
Lead	**3840**	ug/L	2.0	20	04/27/13 08:12	04/28/13 16:01	7439-92-1	
Magnesium	**141000**	ug/L	100	20	04/27/13 08:12	04/28/13 16:01	7439-95-4	
Manganese	**27400**	ug/L	250	500	04/27/13 08:12	04/28/13 16:07	7439-96-5	
Molybdenum	**4.0**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7439-98-7	
Nickel	**173**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-02-0	
Potassium	**3580**	ug/L	100	5	04/27/13 08:12	05/04/13 09:55	7440-09-7	
Selenium	**4.8**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7782-49-2	
Silica	**71500**	ug/L	1070	20	04/27/13 08:12	04/28/13 16:01	7631-86-9	
Silver	**10.5**	ug/L	2.5	5	04/27/13 08:12	05/04/13 09:55	7440-22-4	
Sodium	**22500**	ug/L	250	5	04/27/13 08:12	05/04/13 09:55	7440-23-5	
Thallium	**0.90**	ug/L	0.50	5	04/27/13 08:12	05/04/13 09:55	7440-28-0	
Total Hardness by 2340B	**1740000**	ug/L	3550	50	04/27/13 08:12	05/04/13 10:02		
Vanadium	**9.4**	ug/L	0.50	5	04/27/13 08:12	05/04/13 09:55	7440-62-2	
Zinc	**146000**	ug/L	2500	500	04/27/13 08:12	04/28/13 16:07	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**18100**	ug/L	4.0	1	04/27/13 08:12	05/03/13 16:32	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7440-36-0	
Arsenic, Dissolved	**230**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7440-38-2	
Barium, Dissolved	**8.6**	ug/L	0.30	1	04/27/13 08:12	05/03/13 16:32	7440-39-3	
Beryllium, Dissolved	**4.8**	ug/L	0.20	1	04/27/13 08:12	05/03/13 16:32	7440-41-7	
Cadmium, Dissolved	**137**	ug/L	0.080	1	04/27/13 08:12	05/03/13 16:32	7440-43-9	
Calcium, Dissolved	**566000**	ug/L	10000	500	04/27/13 08:12	04/30/13 15:50	7440-70-2	
Chromium, Dissolved	**2.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7440-47-3	
Cobalt, Dissolved	**86.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7440-48-4	
Copper, Dissolved	**1.9**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7440-50-8	
Iron, Dissolved	**449000**	ug/L	1000	20	04/27/13 08:12	04/30/13 15:45	7439-89-6	
Lead, Dissolved	**750**	ug/L	0.50	5	04/27/13 08:12	05/03/13 16:37	7439-92-1	
Magnesium, Dissolved	**130000**	ug/L	100	20	04/27/13 08:12	04/30/13 15:45	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-5 SHALLOW_20130416 **Lab ID: 60142948006** Collected: 04/16/13 12:50 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**26600**	ug/L	250	500	04/27/13 08:12	04/30/13 15:50	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7439-98-7	
Nickel, Dissolved	**174**	ug/L	10.0	20	04/27/13 08:12	04/30/13 15:45	7440-02-0	
Potassium, Dissolved	**2440**	ug/L	20.0	1	04/27/13 08:12	05/03/13 16:32	7440-09-7	
Selenium, Dissolved	**5.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:32	7440-22-4	
Sodium, Dissolved	**20800**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:32	7440-23-5	
Thallium, Dissolved	**0.26**	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:32	7440-28-0	
Vanadium, Dissolved	**1.4**	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:32	7440-62-2	
Zinc, Dissolved	**141000**	ug/L	2500	500	04/27/13 08:12	04/30/13 15:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**17800**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:01	7429-90-5	
Antimony, Dissolved	**0.59J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-36-0	
Arsenic, Dissolved	**337**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-38-2	
Barium, Dissolved	**7.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-39-3	
Beryllium, Dissolved	**5.9**	ug/L	2.5	5	04/26/13 14:30	05/01/13 14:10	7440-41-7	
Cadmium, Dissolved	**167**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:01	7440-43-9	
Chromium, Dissolved	**9.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-47-3	
Cobalt, Dissolved	**77.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-48-4	
Copper, Dissolved	**592**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-50-8	
Iron, Dissolved	**426000**	ug/L	5000	100	04/26/13 14:30	04/30/13 12:09	7439-89-6	
Lead, Dissolved	**2580**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7439-92-1	
Manganese, Dissolved	**23700**	ug/L	5.0	5	04/26/13 14:30	04/30/13 12:05	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7439-98-7	
Nickel, Dissolved	**139**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-02-0	
Selenium, Dissolved	**4.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7782-49-2	
Silver, Dissolved	**0.14J**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:01	7440-22-4	
Thallium, Dissolved	**0.67J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-28-0	
Vanadium, Dissolved	**5.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:01	7440-62-2	
Zinc, Dissolved	**137000**	ug/L	1000	100	04/26/13 14:30	04/30/13 12:09	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:48	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:08	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:27	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**3950**	umhos/cm	10.0	1		04/24/13 13:47		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-5 SHALLOW_20130416 **Lab ID: 60142948006** Collected: 04/16/13 12:50 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**2530**	mg/L	6.4	1		04/26/13 13:35		
Salinity (as seawater)	**2.1**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 08:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 08:00		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		04/29/13 08:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**3550**	mg/L	5.0	1		04/23/13 10:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**610**	mg/L	5.0	1		04/22/13 17:38		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:24	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.4**	mg/L	1.0	1		04/30/13 15:15	16887-00-6	
Sulfate	**2980**	mg/L	500	500		05/02/13 11:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:21		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:24	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	1		05/02/13 10:08	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: P13-103_20130417 **Lab ID: 60142948007** Collected: 04/17/13 15:01 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**257000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:19	7440-70-2	
Magnesium, Dissolved	**30900**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:19	7439-95-4	
Potassium, Dissolved	**4340**	ug/L	500	1	04/26/13 14:30	05/02/13 13:31	7440-09-7	
Sodium, Dissolved	**11700**	ug/L	500	1	04/26/13 14:30	05/02/13 13:31	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1850**	ug/L	4.0	1	04/27/13 08:12	05/04/13 10:08	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-36-0	
Arsenic	**45.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-38-2	
Barium	**42.4**	ug/L	0.30	1	04/27/13 08:12	05/04/13 10:08	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 10:08	7440-41-7	
Cadmium	**1.9**	ug/L	0.080	1	04/27/13 08:12	05/04/13 10:08	7440-43-9	
Calcium	**286000**	ug/L	400	20	04/27/13 08:12	05/04/13 10:15	7440-70-2	
Chromium	**1.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-47-3	
Cobalt	**2.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-48-4	
Copper	**80.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-50-8	
Iron	**36400**	ug/L	1000	20	04/27/13 08:12	05/04/13 10:15	7439-89-6	
Lead	**319**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:08	7439-92-1	
Magnesium	**33300**	ug/L	100	20	04/27/13 08:12	05/04/13 10:15	7439-95-4	
Manganese	**2710**	ug/L	10.0	20	04/27/13 08:12	05/04/13 10:15	7439-96-5	
Molybdenum	**14.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7439-98-7	
Nickel	**2.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-02-0	
Potassium	**4540**	ug/L	20.0	1	04/27/13 08:12	05/04/13 10:08	7440-09-7	
Selenium	**2.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7782-49-2	
Silica	**33800**	ug/L	1070	20	04/27/13 08:12	05/04/13 10:15	7631-86-9	
Silver	**2.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:08	7440-22-4	
Sodium	**11300**	ug/L	50.0	1	04/27/13 08:12	05/04/13 10:08	7440-23-5	
Thallium	**0.18**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:08	7440-28-0	
Total Hardness by 2340B	**850000**	ug/L	1420	20	04/27/13 08:12	05/04/13 10:15		
Vanadium	**2.7**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:08	7440-62-2	
Zinc	**392**	ug/L	5.0	1	04/27/13 08:12	05/04/13 10:08	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**134**	ug/L	4.0	1	04/27/13 08:12	05/03/13 16:41	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7440-36-0	
Arsenic, Dissolved	**17.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7440-38-2	
Barium, Dissolved	**19.7**	ug/L	0.30	1	04/27/13 08:12	05/03/13 16:41	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 16:41	7440-41-7	
Cadmium, Dissolved	**0.54**	ug/L	0.080	1	04/27/13 08:12	05/03/13 16:41	7440-43-9	
Calcium, Dissolved	**330000**	ug/L	400	20	04/27/13 08:12	04/30/13 16:16	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7440-47-3	
Cobalt, Dissolved	**1.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7440-48-4	
Copper, Dissolved	**6.7**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7440-50-8	
Iron, Dissolved	**14000**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:41	7439-89-6	
Lead, Dissolved	**21.6**	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:41	7439-92-1	
Magnesium, Dissolved	**31600**	ug/L	100	20	04/27/13 08:12	04/30/13 16:16	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: P13-103_20130417 **Lab ID: 60142948007** Collected: 04/17/13 15:01 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**2660**	ug/L	10.0	20	04/27/13 08:12	04/30/13 16:16	7439-96-5	
Molybdenum, Dissolved	**10.7**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7439-98-7	
Nickel, Dissolved	**0.89**	ug/L	0.50	1	04/27/13 08:12	04/30/13 16:11	7440-02-0	
Potassium, Dissolved	**4080**	ug/L	20.0	1	04/27/13 08:12	05/03/13 16:41	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:41	7440-22-4	
Sodium, Dissolved	**11500**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:41	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:41	7440-28-0	
Vanadium, Dissolved	**0.20**	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:41	7440-62-2	
Zinc, Dissolved	**208**	ug/L	5.0	1	04/27/13 08:12	05/03/13 16:41	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**810**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:13	7429-90-5	
Antimony, Dissolved	**0.30J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-36-0	
Arsenic, Dissolved	**75.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-38-2	
Barium, Dissolved	**30.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-39-3	
Beryllium, Dissolved	**0.21J**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:12	7440-41-7	
Cadmium, Dissolved	**3.3**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:13	7440-43-9	
Chromium, Dissolved	**3.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-47-3	
Cobalt, Dissolved	**2.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-48-4	
Copper, Dissolved	**117**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-50-8	
Iron, Dissolved	**40000**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:13	7439-89-6	
Lead, Dissolved	**705**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7439-92-1	
Manganese, Dissolved	**2510**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7439-96-5	
Molybdenum, Dissolved	**15.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7439-98-7	
Nickel, Dissolved	**1.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-02-0	
Selenium, Dissolved	**1.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7782-49-2	
Silver, Dissolved	**1.7**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:13	7440-22-4	
Thallium, Dissolved	**0.25J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-28-0	
Vanadium, Dissolved	**1.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:13	7440-62-2	
Zinc, Dissolved	**521**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:13	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:50	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:10	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1430**	umhos/cm	10.0	1		04/24/13 14:45		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**913**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: P13-103_20130417 **Lab ID: 60142948007** Collected: 04/17/13 15:01 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.71**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**70.3**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**70.3**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1130**	mg/L	5.0	1		04/23/13 10:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**816**	mg/L	5.0	1		04/24/13 11:25		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.7**	mg/L	1.0	1		04/30/13 15:50	16887-00-6	
Sulfate	**857**	mg/L	100	100		04/30/13 16:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:24		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:25	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/02/13 10:16	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: EB-1_20130417 **Lab ID: 60142948008** Collected: 04/17/13 09:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**347000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:21	7440-70-2	
Magnesium, Dissolved	**25300**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:21	7439-95-4	
Potassium, Dissolved	**4610**	ug/L	500	1	04/26/13 14:30	05/02/13 13:33	7440-09-7	
Sodium, Dissolved	**7590**	ug/L	500	1	04/26/13 14:30	05/02/13 13:33	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1490**	ug/L	4.0	1	04/27/13 08:12	05/04/13 10:52	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-36-0	
Arsenic	**20.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-38-2	
Barium	**24.5**	ug/L	0.30	1	04/27/13 08:12	05/04/13 10:52	7440-39-3	
Beryllium	**0.42**	ug/L	0.20	1	04/27/13 08:12	05/04/13 10:52	7440-41-7	
Cadmium	**3.4**	ug/L	0.080	1	04/27/13 08:12	05/04/13 10:52	7440-43-9	
Calcium	**422000**	ug/L	400	20	04/27/13 08:12	04/28/13 16:34	7440-70-2	
Chromium	**2.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-47-3	
Cobalt	**5.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-48-4	
Copper	**72.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-50-8	
Iron	**10200**	ug/L	50.0	1	04/27/13 08:12	05/04/13 10:52	7439-89-6	
Lead	**524**	ug/L	2.0	20	04/27/13 08:12	04/30/13 21:43	7439-92-1	
Magnesium	**29100**	ug/L	100	20	04/27/13 08:12	04/28/13 16:34	7439-95-4	
Manganese	**3160**	ug/L	10.0	20	04/27/13 08:12	04/28/13 16:34	7439-96-5	
Molybdenum	**11.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7439-98-7	
Nickel	**4.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-02-0	
Potassium	**4800**	ug/L	20.0	1	04/27/13 08:12	05/04/13 10:52	7440-09-7	
Selenium	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7782-49-2	
Silica	**25200**	ug/L	1070	20	04/27/13 08:12	04/28/13 16:34	7631-86-9	
Silver	**1.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:52	7440-22-4	
Sodium	**7520**	ug/L	50.0	1	04/27/13 08:12	05/04/13 10:52	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:52	7440-28-0	
Total Hardness by 2340B	**1170000**	ug/L	1420	20	04/27/13 08:12	04/28/13 16:34		
Vanadium	**2.4**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:52	7440-62-2	
Zinc	**2040**	ug/L	100	20	04/27/13 08:12	04/28/13 16:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**13.5**	ug/L	4.0	1	04/27/13 08:12	05/03/13 16:46	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7440-36-0	
Arsenic, Dissolved	**6.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7440-38-2	
Barium, Dissolved	**11.2**	ug/L	0.30	1	04/27/13 08:12	05/03/13 16:46	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 16:46	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/27/13 08:12	05/03/13 16:46	7440-43-9	
Calcium, Dissolved	**463000**	ug/L	400	20	04/27/13 08:12	04/30/13 16:26	7440-70-2	
Chromium, Dissolved	**0.50**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7440-47-3	
Cobalt, Dissolved	**4.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7440-50-8	
Iron, Dissolved	**2630**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:46	7439-89-6	
Lead, Dissolved	**0.89**	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:46	7439-92-1	
Magnesium, Dissolved	**26000**	ug/L	100	20	04/27/13 08:12	04/30/13 16:26	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: EB-1_20130417 **Lab ID: 60142948008** Collected: 04/17/13 09:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**3060**	ug/L	10.0	20	04/27/13 08:12	04/30/13 16:26	7439-96-5	
Molybdenum, Dissolved	**12.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7439-98-7	
Nickel, Dissolved	**5.0**	ug/L	0.50	1	04/27/13 08:12	04/30/13 16:21	7440-02-0	
Potassium, Dissolved	**4390**	ug/L	20.0	1	04/27/13 08:12	05/03/13 16:46	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:46	7440-22-4	
Sodium, Dissolved	**6940**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:46	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:46	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:46	7440-62-2	
Zinc, Dissolved	**1020**	ug/L	100	20	04/27/13 08:12	04/30/13 16:26	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**564**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:17	7429-90-5	
Antimony, Dissolved	**0.14J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-36-0	
Arsenic, Dissolved	**13.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-38-2	
Barium, Dissolved	**16.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-39-3	
Beryllium, Dissolved	**0.20J**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:14	7440-41-7	
Cadmium, Dissolved	**1.8**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:17	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-47-3	B
Cobalt, Dissolved	**4.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-48-4	
Copper, Dissolved	**38.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-50-8	
Iron, Dissolved	**5600**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:17	7439-89-6	
Lead, Dissolved	**329**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7439-92-1	
Manganese, Dissolved	**2890**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7439-96-5	
Molybdenum, Dissolved	**11.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7782-49-2	
Silver, Dissolved	**0.22J**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:17	7440-22-4	
Thallium, Dissolved	**0.036J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-28-0	
Vanadium, Dissolved	**0.79J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:17	7440-62-2	
Zinc, Dissolved	**1450**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:17	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:53	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:13	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:32	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1780**	umhos/cm	10.0	1		04/24/13 15:07		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1140**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: EB-1_20130417 **Lab ID: 60142948008** Collected: 04/17/13 09:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.90**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**158**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**158**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1470**	mg/L	5.0	1		04/23/13 10:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**97.0**	mg/L	5.0	1		04/24/13 11:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.7**	mg/L	1.0	1		04/30/13 22:38	16887-00-6	
Sulfate	**930**	mg/L	100	100		05/01/13 11:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:25		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:25	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/02/13 10:23	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-6 SHALLOW_20130417 **Lab ID: 60142948009** Collected: 04/17/13 10:31 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**346000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:24	7440-70-2	
Magnesium, Dissolved	**53100**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:24	7439-95-4	
Potassium, Dissolved	**12000**	ug/L	500	1	04/26/13 14:30	05/02/13 13:35	7440-09-7	
Sodium, Dissolved	**4360**	ug/L	500	1	04/26/13 14:30	05/02/13 13:35	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**22000**	ug/L	4.0	1	04/27/13 08:12	05/04/13 10:59	7429-90-5	
Antimony	**0.72**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-36-0	
Arsenic	**112**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-38-2	
Barium	**104**	ug/L	0.30	1	04/27/13 08:12	05/04/13 10:59	7440-39-3	
Beryllium	**1.8**	ug/L	0.20	1	04/27/13 08:12	05/04/13 10:59	7440-41-7	
Cadmium	**15.7**	ug/L	0.080	1	04/27/13 08:12	05/04/13 10:59	7440-43-9	
Calcium	**447000**	ug/L	400	20	04/27/13 08:12	04/28/13 16:44	7440-70-2	
Chromium	**16.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-47-3	
Cobalt	**15.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-48-4	
Copper	**101**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-50-8	
Iron	**81200**	ug/L	1000	20	04/27/13 08:12	04/28/13 16:44	7439-89-6	
Lead	**225**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:59	7439-92-1	
Magnesium	**68300**	ug/L	100	20	04/27/13 08:12	04/28/13 16:44	7439-95-4	
Manganese	**8490**	ug/L	10.0	20	04/27/13 08:12	04/28/13 16:44	7439-96-5	
Molybdenum	**8.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7439-98-7	
Nickel	**25.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-02-0	
Potassium	**14900**	ug/L	20.0	1	04/27/13 08:12	05/04/13 10:59	7440-09-7	
Selenium	**4.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7782-49-2	
Silica	**89100**	ug/L	1070	20	04/27/13 08:12	04/28/13 16:44	7631-86-9	
Silver	**1.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:59	7440-22-4	
Sodium	**4350**	ug/L	50.0	1	04/27/13 08:12	05/04/13 10:59	7440-23-5	
Thallium	**0.64**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:59	7440-28-0	
Total Hardness by 2340B	**1400000**	ug/L	1420	20	04/27/13 08:12	04/28/13 16:44		
Vanadium	**25.6**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:59	7440-62-2	
Zinc	**4320**	ug/L	100	20	04/27/13 08:12	04/28/13 16:44	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**818**	ug/L	4.0	1	04/27/13 08:12	05/03/13 16:50	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7440-36-0	
Arsenic, Dissolved	**31.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7440-38-2	
Barium, Dissolved	**19.0**	ug/L	0.30	1	04/27/13 08:12	05/03/13 16:50	7440-39-3	
Beryllium, Dissolved	**0.86**	ug/L	0.20	1	04/27/13 08:12	05/03/13 16:50	7440-41-7	
Cadmium, Dissolved	**0.14**	ug/L	0.080	1	04/27/13 08:12	05/03/13 16:50	7440-43-9	
Calcium, Dissolved	**397000**	ug/L	1000	50	04/27/13 08:12	05/03/13 16:55	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7440-47-3	
Cobalt, Dissolved	**3.8**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7440-50-8	
Iron, Dissolved	**52400**	ug/L	1000	20	04/27/13 08:12	04/30/13 16:35	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:50	7439-92-1	
Magnesium, Dissolved	**57100**	ug/L	100	20	04/27/13 08:12	04/30/13 16:35	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-6 SHALLOW_20130417 **Lab ID: 60142948009** Collected: 04/17/13 10:31 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8050**	ug/L	10.0	20	04/27/13 08:12	04/30/13 16:35	7439-96-5	
Molybdenum, Dissolved	**4.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7439-98-7	
Nickel, Dissolved	**1.5**	ug/L	0.50	1	04/27/13 08:12	04/30/13 16:30	7440-02-0	
Potassium, Dissolved	**11900**	ug/L	20.0	1	04/27/13 08:12	05/03/13 16:50	7440-09-7	
Selenium, Dissolved	**1.9**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:50	7440-22-4	
Sodium, Dissolved	**4010**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:50	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:50	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:50	7440-62-2	
Zinc, Dissolved	**794**	ug/L	100	20	04/27/13 08:12	04/30/13 16:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**7380**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:21	7429-90-5	
Antimony, Dissolved	**0.13J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-36-0	
Arsenic, Dissolved	**82.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-38-2	
Barium, Dissolved	**28.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-39-3	
Beryllium, Dissolved	**0.97**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:16	7440-41-7	
Cadmium, Dissolved	**14.8**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:21	7440-43-9	
Chromium, Dissolved	**5.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-47-3	
Cobalt, Dissolved	**10.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-48-4	
Copper, Dissolved	**56.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-50-8	
Iron, Dissolved	**52400**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:21	7439-89-6	
Lead, Dissolved	**212**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7439-92-1	
Manganese, Dissolved	**7600**	ug/L	10.0	10	04/26/13 14:30	04/30/13 13:11	7439-96-5	
Molybdenum, Dissolved	**3.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7439-98-7	
Nickel, Dissolved	**12.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-02-0	
Selenium, Dissolved	**3.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:21	7440-22-4	
Thallium, Dissolved	**0.32J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-28-0	
Vanadium, Dissolved	**6.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:21	7440-62-2	
Zinc, Dissolved	**3960**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:21	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:55	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:15	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:34	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**2070**	umhos/cm	10.0	1		04/24/13 15:08		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-6 SHALLOW_20130417 **Lab ID: 60142948009** Collected: 04/17/13 10:31 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1320**	mg/L	6.4	1		04/26/13 13:35		
Salinity (as seawater)	**1.1**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**79.8**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**79.8**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1770**	mg/L	5.0	1		04/23/13 10:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1120**	mg/L	5.0	1		04/24/13 11:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.9**	mg/L	1.0	1		04/30/13 23:55	16887-00-6	
Sulfate	**1140**	mg/L	200	200		05/01/13 12:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.11**	mg/L	0.10	1		04/26/13 12:25		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:28	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		05/02/13 10:31	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: P13-102_20130417 **Lab ID: 60142948010** Collected: 04/17/13 11:05 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**300000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:26	7440-70-2	
Magnesium, Dissolved	**42900**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:26	7439-95-4	
Potassium, Dissolved	**4990**	ug/L	500	1	04/26/13 14:30	05/02/13 13:38	7440-09-7	
Sodium, Dissolved	**13000**	ug/L	500	1	04/26/13 14:30	05/02/13 13:38	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**536**	ug/L	4.0	1	04/27/13 08:12	05/04/13 11:05	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-36-0	
Arsenic	**1.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-38-2	
Barium	**26.3**	ug/L	0.30	1	04/27/13 08:12	05/04/13 11:05	7440-39-3	
Beryllium	**0.20**	ug/L	0.20	1	04/27/13 08:12	05/04/13 11:05	7440-41-7	
Cadmium	**0.14**	ug/L	0.080	1	04/27/13 08:12	05/04/13 11:05	7440-43-9	
Calcium	**354000**	ug/L	400	20	04/27/13 08:12	04/28/13 16:54	7440-70-2	
Chromium	**1.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-47-3	
Cobalt	**13.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-48-4	
Copper	**3.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-50-8	
Iron	**3190**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:05	7439-89-6	
Lead	**4.2**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:05	7439-92-1	
Magnesium	**46800**	ug/L	100	20	04/27/13 08:12	04/28/13 16:54	7439-95-4	
Manganese	**15700**	ug/L	25.0	50	04/27/13 08:12	04/30/13 21:58	7439-96-5	
Molybdenum	**4.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7439-98-7	
Nickel	**1.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-02-0	
Potassium	**5180**	ug/L	20.0	1	04/27/13 08:12	05/04/13 11:05	7440-09-7	
Selenium	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7782-49-2	
Silica	**20800**	ug/L	1070	20	04/27/13 08:12	04/28/13 16:54	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:05	7440-22-4	
Sodium	**13300**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:05	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:05	7440-28-0	
Total Hardness by 2340B	**1080000**	ug/L	1420	20	04/27/13 08:12	04/28/13 16:54		
Vanadium	**1.3**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:05	7440-62-2	
Zinc	**54.5**	ug/L	5.0	1	04/27/13 08:12	05/04/13 11:05	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**22.4**	ug/L	4.0	1	04/27/13 08:12	05/03/13 16:59	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7440-36-0	
Arsenic, Dissolved	**0.78**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7440-38-2	
Barium, Dissolved	**19.5**	ug/L	0.30	1	04/27/13 08:12	05/03/13 16:59	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 16:59	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/27/13 08:12	05/03/13 16:59	7440-43-9	
Calcium, Dissolved	**400000**	ug/L	1000	50	04/27/13 08:12	04/30/13 16:44	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7440-47-3	
Cobalt, Dissolved	**11.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7440-50-8	
Iron, Dissolved	**1860**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:59	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:59	7439-92-1	
Magnesium, Dissolved	**45700**	ug/L	250	50	04/27/13 08:12	04/30/13 16:44	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: P13-102_20130417 **Lab ID: 60142948010** Collected: 04/17/13 11:05 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**15500**	ug/L	25.0	50	04/27/13 08:12	04/30/13 16:44	7439-96-5	
Molybdenum, Dissolved	**4.9**	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7439-98-7	
Nickel, Dissolved	**1.1**	ug/L	0.50	1	04/27/13 08:12	04/30/13 16:39	7440-02-0	
Potassium, Dissolved	**4880**	ug/L	20.0	1	04/27/13 08:12	05/03/13 16:59	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 16:59	7440-22-4	
Sodium, Dissolved	**12900**	ug/L	50.0	1	04/27/13 08:12	05/03/13 16:59	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:59	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 16:59	7440-62-2	
Zinc, Dissolved	**43.2**	ug/L	5.0	1	04/27/13 08:12	05/03/13 16:59	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**171**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:25	7429-90-5	
Antimony, Dissolved	**0.039J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-36-0	
Arsenic, Dissolved	**1.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-38-2	
Barium, Dissolved	**22.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-39-3	
Beryllium, Dissolved	**0.16J**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:18	7440-41-7	
Cadmium, Dissolved	**0.10J**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:25	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-47-3	B
Cobalt, Dissolved	**10.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-48-4	
Copper, Dissolved	**2.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-50-8	
Iron, Dissolved	**2570**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:25	7439-89-6	
Lead, Dissolved	**4.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7439-92-1	
Manganese, Dissolved	**15300**	ug/L	10.0	10	04/26/13 14:30	04/30/13 13:15	7439-96-5	
Molybdenum, Dissolved	**4.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:25	7440-22-4	
Thallium, Dissolved	**0.068J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-28-0	
Vanadium, Dissolved	**0.40J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:25	7440-62-2	
Zinc, Dissolved	**52.9**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:25	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 10:58	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:18	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:45	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1690**	umhos/cm	10.0	1		04/24/13 15:09		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1080**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: P13-102_20130417 **Lab ID: 60142948010** Collected: 04/17/13 11:05 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.85**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**135**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**135**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1510**	mg/L	5.0	1		04/23/13 10:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**33.0**	mg/L	5.0	1		04/24/13 11:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**2.1**	mg/L	1.0	1		05/01/13 00:10	16887-00-6	
Sulfate	**895**	mg/L	100	100		05/01/13 12:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:26		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:28	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/02/13 10:39	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-6 DEEP_20130417 **Lab ID: 60142948011** Collected: 04/17/13 10:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**272000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:28	7440-70-2	
Magnesium, Dissolved	**41800**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:28	7439-95-4	
Potassium, Dissolved	**7260**	ug/L	500	1	04/26/13 14:30	05/02/13 13:40	7440-09-7	
Sodium, Dissolved	**5180**	ug/L	500	1	04/26/13 14:30	05/02/13 13:40	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**4930**	ug/L	4.0	1	04/27/13 08:12	05/04/13 11:12	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-36-0	
Arsenic	**48.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-38-2	
Barium	**60.0**	ug/L	0.30	1	04/27/13 08:12	05/04/13 11:12	7440-39-3	M1
Beryllium	**1.0**	ug/L	0.20	1	04/27/13 08:12	05/04/13 11:12	7440-41-7	
Cadmium	**3.4**	ug/L	0.080	1	04/27/13 08:12	05/04/13 11:12	7440-43-9	
Calcium	**320000**	ug/L	400	20	04/27/13 08:12	04/28/13 17:03	7440-70-2	M1
Chromium	**4.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-47-3	
Cobalt	**7.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-48-4	
Copper	**34.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-50-8	
Iron	**31300**	ug/L	1000	20	04/27/13 08:12	04/28/13 17:03	7439-89-6	M1
Lead	**66.4**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:12	7439-92-1	
Magnesium	**45100**	ug/L	100	20	04/27/13 08:12	04/28/13 17:03	7439-95-4	M1
Manganese	**7210**	ug/L	10.0	20	04/27/13 08:12	04/28/13 17:03	7439-96-5	M1
Molybdenum	**6.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7439-98-7	
Nickel	**6.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-02-0	
Potassium	**7780**	ug/L	20.0	1	04/27/13 08:12	05/04/13 11:12	7440-09-7	M1
Selenium	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7782-49-2	
Silica	**32800**	ug/L	1070	20	04/27/13 08:12	04/28/13 17:03	7631-86-9	M1
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:12	7440-22-4	
Sodium	**5040**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:12	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:12	7440-28-0	
Total Hardness by 2340B	**984000**	ug/L	1420	20	04/27/13 08:12	04/28/13 17:03		
Vanadium	**9.1**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:12	7440-62-2	
Zinc	**1230**	ug/L	100	20	04/27/13 08:12	04/28/13 17:03	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**372**	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:04	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7440-36-0	
Arsenic, Dissolved	**17.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7440-38-2	
Barium, Dissolved	**18.4**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:04	7440-39-3	
Beryllium, Dissolved	**0.57**	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:04	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:04	7440-43-9	
Calcium, Dissolved	**369000**	ug/L	400	20	04/27/13 08:12	04/30/13 16:53	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7440-47-3	
Cobalt, Dissolved	**3.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7440-50-8	
Iron, Dissolved	**24300**	ug/L	250	5	04/27/13 08:12	05/03/13 17:13	7439-89-6	
Lead, Dissolved	**0.16**	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:04	7439-92-1	
Magnesium, Dissolved	**43600**	ug/L	25.0	5	04/27/13 08:12	05/03/13 17:13	7439-95-4	M1

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-6 DEEP_20130417 **Lab ID: 60142948011** Collected: 04/17/13 10:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**7630**	ug/L	10.0	20	04/27/13 08:12	04/30/13 16:53	7439-96-5	M1
Molybdenum, Dissolved	**5.9**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7439-98-7	
Nickel, Dissolved	**1.2**	ug/L	0.50	1	04/27/13 08:12	04/30/13 16:48	7440-02-0	
Potassium, Dissolved	**6650**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:04	7440-09-7	
Selenium, Dissolved	**0.65**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:04	7440-22-4	
Sodium, Dissolved	**4560**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:04	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:04	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:04	7440-62-2	
Zinc, Dissolved	**340**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:04	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2050**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:30	7429-90-5	
Antimony, Dissolved	**0.15J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-36-0	
Arsenic, Dissolved	**40.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-38-2	
Barium, Dissolved	**31.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-39-3	
Beryllium, Dissolved	**0.72**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:20	7440-41-7	
Cadmium, Dissolved	**3.0**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:30	7440-43-9	
Chromium, Dissolved	**2.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-47-3	
Cobalt, Dissolved	**4.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-48-4	
Copper, Dissolved	**24.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-50-8	
Iron, Dissolved	**26500**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:30	7439-89-6	
Lead, Dissolved	**53.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7439-92-1	
Manganese, Dissolved	**7510**	ug/L	10.0	10	04/26/13 14:30	04/30/13 13:19	7439-96-5	
Molybdenum, Dissolved	**4.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7439-98-7	
Nickel, Dissolved	**3.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-02-0	
Selenium, Dissolved	**0.97J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:30	7440-22-4	
Thallium, Dissolved	**0.034J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-28-0	
Vanadium, Dissolved	**4.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:30	7440-62-2	
Zinc, Dissolved	**1200**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:30	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:05	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:20	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:47	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1640**	umhos/cm	10.0	1		04/24/13 15:13		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1050**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-6 DEEP_20130417 **Lab ID: 60142948011** Collected: 04/17/13 10:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.83**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**141**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**141**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1350**	mg/L	5.0	1		04/23/13 10:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**191**	mg/L	5.0	1		04/24/13 11:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.8**	mg/L	1.0	1		05/01/13 00:26	16887-00-6	
Sulfate	**802**	mg/L	100	100		05/01/13 12:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:27		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:29	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	1.0	1		05/03/13 09:00	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-3 DEEP_20130417 **Lab ID: 60142948012** Collected: 04/17/13 13:09 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**219000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:30	7440-70-2	
Magnesium, Dissolved	**23600**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:30	7439-95-4	
Potassium, Dissolved	**5660**	ug/L	500	1	04/26/13 14:30	05/02/13 13:47	7440-09-7	
Sodium, Dissolved	**12500**	ug/L	500	1	04/26/13 14:30	05/02/13 13:47	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**4430**	ug/L	4.0	1	04/27/13 08:12	05/04/13 11:24	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-36-0	
Arsenic	**6.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-38-2	
Barium	**94.2**	ug/L	0.30	1	04/27/13 08:12	05/04/13 11:24	7440-39-3	
Beryllium	**0.48**	ug/L	0.20	1	04/27/13 08:12	05/04/13 11:24	7440-41-7	
Cadmium	**7.7**	ug/L	0.080	1	04/27/13 08:12	05/04/13 11:24	7440-43-9	
Calcium	**262000**	ug/L	400	20	04/27/13 08:12	04/28/13 17:12	7440-70-2	
Chromium	**4.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-47-3	
Cobalt	**3.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-48-4	
Copper	**72.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-50-8	
Iron	**9680**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:24	7439-89-6	
Lead	**114**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:24	7439-92-1	
Magnesium	**26800**	ug/L	100	20	04/27/13 08:12	04/28/13 17:12	7439-95-4	
Manganese	**1520**	ug/L	10.0	20	04/27/13 08:12	04/28/13 17:12	7439-96-5	
Molybdenum	**7.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7439-98-7	
Nickel	**3.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-02-0	
Potassium	**6150**	ug/L	20.0	1	04/27/13 08:12	05/04/13 11:24	7440-09-7	
Selenium	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7782-49-2	
Silica	**26300**	ug/L	1070	20	04/27/13 08:12	04/28/13 17:12	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:24	7440-22-4	
Sodium	**12100**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:24	7440-23-5	
Thallium	**0.25**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:24	7440-28-0	
Total Hardness by 2340B	**764000**	ug/L	1420	20	04/27/13 08:12	04/28/13 17:12		
Vanadium	**11.8**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:24	7440-62-2	
Zinc	**300**	ug/L	5.0	1	04/27/13 08:12	05/04/13 11:24	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.7**	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:31	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7440-36-0	
Arsenic, Dissolved	**0.60**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7440-38-2	
Barium, Dissolved	**19.2**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:31	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:31	7440-41-7	
Cadmium, Dissolved	**0.20**	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:31	7440-43-9	
Calcium, Dissolved	**297000**	ug/L	400	20	04/27/13 08:12	04/30/13 17:26	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7440-47-3	
Cobalt, Dissolved	**1.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7440-48-4	
Copper, Dissolved	**0.51**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7440-50-8	
Iron, Dissolved	**1030**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:31	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:31	7439-92-1	
Magnesium, Dissolved	**22200**	ug/L	5.0	1	04/27/13 08:12	04/30/13 17:20	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-3 DEEP_20130417 **Lab ID: 60142948012** Collected: 04/17/13 13:09 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1460**	ug/L	10.0	20	04/27/13 08:12	04/30/13 17:26	7439-96-5	
Molybdenum, Dissolved	**8.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	04/30/13 17:20	7440-02-0	
Potassium, Dissolved	**5220**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:31	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:31	7440-22-4	
Sodium, Dissolved	**11900**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:31	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:31	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:31	7440-62-2	
Zinc, Dissolved	**38.8**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:31	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1630**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:34	7429-90-5	
Antimony, Dissolved	**0.12J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-36-0	
Arsenic, Dissolved	**3.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-38-2	
Barium, Dissolved	**33.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-39-3	
Beryllium, Dissolved	**0.31J**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:22	7440-41-7	
Cadmium, Dissolved	**7.2**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:34	7440-43-9	
Chromium, Dissolved	**2.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-47-3	
Cobalt, Dissolved	**2.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-48-4	
Copper, Dissolved	**60.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-50-8	
Iron, Dissolved	**6060**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:34	7439-89-6	
Lead, Dissolved	**110**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7439-92-1	
Manganese, Dissolved	**1490**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7439-96-5	
Molybdenum, Dissolved	**5.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7439-98-7	
Nickel, Dissolved	**1.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-02-0	
Selenium, Dissolved	**0.54J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:34	7440-22-4	
Thallium, Dissolved	**0.18J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-28-0	
Vanadium, Dissolved	**6.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:34	7440-62-2	
Zinc, Dissolved	**265**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:34	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:27	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:49	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1270**	umhos/cm	10.0	1		04/24/13 15:15		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**813**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-3 DEEP_20130417 **Lab ID: 60142948012** Collected: 04/17/13 13:09 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.63**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.7**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**81.7**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1000**	mg/L	5.0	1		04/23/13 10:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**160**	mg/L	5.0	1		04/24/13 11:29		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		05/01/13 00:41	16887-00-6	
Sulfate	**626**	mg/L	100	100		05/01/13 12:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:28		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:33	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		05/03/13 09:17	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-4 SHALLOW_20130417 **Lab ID: 60142948013** Collected: 04/17/13 14:08 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**194000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:33	7440-70-2	
Magnesium, Dissolved	**21700**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:33	7439-95-4	
Potassium, Dissolved	**4100**	ug/L	500	1	04/26/13 14:30	05/02/13 13:49	7440-09-7	
Sodium, Dissolved	**7370**	ug/L	500	1	04/26/13 14:30	05/02/13 13:49	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**7350**	ug/L	4.0	1	04/27/13 08:12	05/04/13 10:21	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-36-0	
Arsenic	**5.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-38-2	
Barium	**142**	ug/L	0.30	1	04/27/13 08:12	05/04/13 10:21	7440-39-3	
Beryllium	**0.76**	ug/L	0.20	1	04/27/13 08:12	05/04/13 10:21	7440-41-7	
Cadmium	**1.8**	ug/L	0.080	1	04/27/13 08:12	05/04/13 10:21	7440-43-9	
Calcium	**232000**	ug/L	400	20	04/27/13 08:12	05/04/13 10:27	7440-70-2	
Chromium	**8.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-47-3	
Cobalt	**4.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-48-4	
Copper	**43.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-50-8	
Iron	**8880**	ug/L	50.0	1	04/27/13 08:12	05/04/13 10:21	7439-89-6	
Lead	**66.9**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:21	7439-92-1	
Magnesium	**27000**	ug/L	100	20	04/27/13 08:12	05/04/13 10:27	7439-95-4	
Manganese	**298**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7439-96-5	
Molybdenum	**2.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7439-98-7	
Nickel	**5.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-02-0	
Potassium	**5300**	ug/L	20.0	1	04/27/13 08:12	05/04/13 10:21	7440-09-7	
Selenium	**26.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7782-49-2	
Silica	**37200**	ug/L	1070	20	04/27/13 08:12	05/04/13 10:27	7631-86-9	
Silver	**0.53**	ug/L	0.50	1	04/27/13 08:12	05/04/13 10:21	7440-22-4	
Sodium	**7540**	ug/L	50.0	1	04/27/13 08:12	05/04/13 10:21	7440-23-5	
Thallium	**0.18**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:21	7440-28-0	
Total Hardness by 2340B	**690000**	ug/L	1420	20	04/27/13 08:12	05/04/13 10:27		
Vanadium	**9.2**	ug/L	0.10	1	04/27/13 08:12	05/04/13 10:21	7440-62-2	
Zinc	**340**	ug/L	5.0	1	04/27/13 08:12	05/04/13 10:21	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**129**	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:36	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7440-38-2	
Barium, Dissolved	**87.2**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:36	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:36	7440-41-7	
Cadmium, Dissolved	**1.2**	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:36	7440-43-9	
Calcium, Dissolved	**275000**	ug/L	400	20	04/27/13 08:12	04/30/13 17:35	7440-70-2	
Chromium, Dissolved	**1.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7440-48-4	
Copper, Dissolved	**2.2**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7440-50-8	
Iron, Dissolved	**140**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:36	7439-89-6	
Lead, Dissolved	**1.0**	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:36	7439-92-1	
Magnesium, Dissolved	**20500**	ug/L	5.0	1	04/27/13 08:12	04/30/13 17:31	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-4 SHALLOW_20130417 **Lab ID: 60142948013** Collected: 04/17/13 14:08 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8.0**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7439-96-5	
Molybdenum, Dissolved	**1.4**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	04/30/13 17:31	7440-02-0	
Potassium, Dissolved	**3900**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:36	7440-09-7	
Selenium, Dissolved	**23.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:36	7440-22-4	
Sodium, Dissolved	**6960**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:36	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:36	7440-28-0	
Vanadium, Dissolved	**0.21**	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:36	7440-62-2	
Zinc, Dissolved	**159**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:36	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**1480**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:46	7429-90-5	
Antimony, Dissolved	**0.094J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-36-0	
Arsenic, Dissolved	**1.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-38-2	
Barium, Dissolved	**94.2**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-39-3	
Beryllium, Dissolved	**0.32J**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:24	7440-41-7	
Cadmium, Dissolved	**1.5**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:46	7440-43-9	
Chromium, Dissolved	**2.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-47-3	
Cobalt, Dissolved	**1.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-48-4	
Copper, Dissolved	**17.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-50-8	
Iron, Dissolved	**1980**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:46	7439-89-6	
Lead, Dissolved	**31.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7439-92-1	
Manganese, Dissolved	**122**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7439-96-5	
Molybdenum, Dissolved	**1.0J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7439-98-7	
Nickel, Dissolved	**0.62J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-02-0	
Selenium, Dissolved	**24.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7782-49-2	
Silver, Dissolved	**0.12J**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:46	7440-22-4	
Thallium, Dissolved	**0.065J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-28-0	
Vanadium, Dissolved	**2.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:46	7440-62-2	
Zinc, Dissolved	**227**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:46	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:10	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:30	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:51	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1180**	umhos/cm	10.0	1		04/24/13 15:16		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-4 SHALLOW_20130417 **Lab ID: 60142948013** Collected: 04/17/13 14:08 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**756**	mg/L	6.4	1		04/26/13 13:35		
Salinity (as seawater)	**0.59**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**230**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**230**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**892**	mg/L	5.0	1		04/23/13 10:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**269**	mg/L	5.0	1		04/24/13 11:30		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.5**	mg/L	1.0	1		05/01/13 00:56	16887-00-6	
Sulfate	**448**	mg/L	50.0	50		05/01/13 13:08	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.35**	mg/L	0.10	1		04/26/13 12:29		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:33	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	1		05/03/13 09:33	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-4 DEEP_20130417 **Lab ID: 60142948014** Collected: 04/17/13 14:28 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**245000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:35	7440-70-2	
Magnesium, Dissolved	**30800**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:35	7439-95-4	
Potassium, Dissolved	**3450**	ug/L	500	1	04/26/13 14:30	05/02/13 13:51	7440-09-7	
Sodium, Dissolved	**7360**	ug/L	500	1	04/26/13 14:30	05/02/13 13:51	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**13000**	ug/L	4.0	1	04/27/13 08:12	05/04/13 11:31	7429-90-5	
Antimony	**0.55**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-36-0	
Arsenic	**24.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-38-2	
Barium	**186**	ug/L	0.30	1	04/27/13 08:12	05/04/13 11:31	7440-39-3	
Beryllium	**1.6**	ug/L	0.20	1	04/27/13 08:12	05/04/13 11:31	7440-41-7	
Cadmium	**9.9**	ug/L	0.080	1	04/27/13 08:12	05/04/13 11:31	7440-43-9	
Calcium	**293000**	ug/L	400	20	04/27/13 08:12	05/04/13 11:37	7440-70-2	
Chromium	**13.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-47-3	
Cobalt	**16.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-48-4	
Copper	**231**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-50-8	
Iron	**29600**	ug/L	1000	20	04/27/13 08:12	05/04/13 11:37	7439-89-6	
Lead	**178**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:31	7439-92-1	
Magnesium	**39200**	ug/L	100	20	04/27/13 08:12	05/04/13 11:37	7439-95-4	
Manganese	**2590**	ug/L	10.0	20	04/27/13 08:12	05/04/13 11:37	7439-96-5	
Molybdenum	**8.9**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7439-98-7	
Nickel	**14.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-02-0	
Potassium	**4930**	ug/L	20.0	1	04/27/13 08:12	05/04/13 11:31	7440-09-7	
Selenium	**51.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7782-49-2	
Silica	**49200**	ug/L	1070	20	04/27/13 08:12	05/04/13 11:37	7631-86-9	
Silver	**3.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:31	7440-22-4	
Sodium	**7320**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:31	7440-23-5	
Thallium	**0.29**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:31	7440-28-0	
Total Hardness by 2340B	**894000**	ug/L	1420	20	04/27/13 08:12	05/04/13 11:37		
Vanadium	**23.8**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:31	7440-62-2	
Zinc	**1090**	ug/L	100	20	04/27/13 08:12	05/04/13 11:37	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**608**	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:40	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7440-36-0	
Arsenic, Dissolved	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7440-38-2	
Barium, Dissolved	**24.7**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:40	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:40	7440-41-7	
Cadmium, Dissolved	**2.2**	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:40	7440-43-9	
Calcium, Dissolved	**359000**	ug/L	400	20	04/27/13 08:12	04/30/13 17:44	7440-70-2	
Chromium, Dissolved	**0.87**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7440-47-3	
Cobalt, Dissolved	**0.74**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7440-48-4	
Copper, Dissolved	**9.2**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7440-50-8	
Iron, Dissolved	**1070**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:40	7439-89-6	
Lead, Dissolved	**6.4**	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:40	7439-92-1	
Magnesium, Dissolved	**33300**	ug/L	100	20	04/27/13 08:12	04/30/13 17:44	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-4 DEEP_20130417 **Lab ID: 60142948014** Collected: 04/17/13 14:28 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**113**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7439-96-5	
Molybdenum, Dissolved	**2.3**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	04/30/13 17:40	7440-02-0	
Potassium, Dissolved	**3290**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:40	7440-09-7	
Selenium, Dissolved	**47.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:40	7440-22-4	
Sodium, Dissolved	**6990**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:40	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:40	7440-28-0	
Vanadium, Dissolved	**1.2**	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:40	7440-62-2	
Zinc, Dissolved	**307**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:40	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**3860**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:50	7429-90-5	
Antimony, Dissolved	**0.11J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-36-0	
Arsenic, Dissolved	**4.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-38-2	
Barium, Dissolved	**60.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-39-3	
Beryllium, Dissolved	**0.84**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:26	7440-41-7	
Cadmium, Dissolved	**7.2**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:50	7440-43-9	
Chromium, Dissolved	**5.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-47-3	
Cobalt, Dissolved	**4.5**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-48-4	
Copper, Dissolved	**151**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-50-8	
Iron, Dissolved	**8920**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:50	7439-89-6	
Lead, Dissolved	**127**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7439-92-1	
Manganese, Dissolved	**608**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7439-96-5	
Molybdenum, Dissolved	**0.85J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7439-98-7	
Nickel, Dissolved	**3.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-02-0	
Selenium, Dissolved	**48.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7782-49-2	
Silver, Dissolved	**1.9**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:50	7440-22-4	
Thallium, Dissolved	**0.023J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-28-0	
Vanadium, Dissolved	**5.8**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:50	7440-62-2	
Zinc, Dissolved	**726**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:50	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:12	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:32	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:54	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1400**	umhos/cm	10.0	1		04/24/13 15:17		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**897**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-4 DEEP_20130417 **Lab ID: 60142948014** Collected: 04/17/13 14:28 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.70**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**232**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**232**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1090**	mg/L	5.0	1		04/23/13 10:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**878**	mg/L	5.0	1		04/24/13 11:30		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.4**	mg/L	1.0	1		05/01/13 01:12	16887-00-6	
Sulfate	**616**	mg/L	100	100		05/01/13 13:23	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:31		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:36	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		05/03/13 09:41	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-1 SHALLOW_20130417 **Lab ID: 60142948015** Collected: 04/17/13 14:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**204000**	ug/L	100	1	04/26/13 14:30	05/02/13 11:42	7440-70-2	
Magnesium, Dissolved	**19500**	ug/L	50.0	1	04/26/13 14:30	05/02/13 11:42	7439-95-4	
Potassium, Dissolved	**7010**	ug/L	500	1	04/26/13 14:30	05/02/13 13:53	7440-09-7	
Sodium, Dissolved	**11300**	ug/L	500	1	04/26/13 14:30	05/02/13 13:53	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**7700**	ug/L	4.0	1	04/27/13 08:12	05/04/13 11:43	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-36-0	
Arsenic	**9.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-38-2	
Barium	**102**	ug/L	0.30	1	04/27/13 08:12	05/04/13 11:43	7440-39-3	
Beryllium	**0.82**	ug/L	0.20	1	04/27/13 08:12	05/04/13 11:43	7440-41-7	
Cadmium	**1.2**	ug/L	0.080	1	04/27/13 08:12	05/04/13 11:43	7440-43-9	
Calcium	**241000**	ug/L	400	20	04/27/13 08:12	05/04/13 11:50	7440-70-2	
Chromium	**8.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-47-3	
Cobalt	**5.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-48-4	
Copper	**45.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-50-8	
Iron	**11200**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:43	7439-89-6	
Lead	**146**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:43	7439-92-1	
Magnesium	**24400**	ug/L	100	20	04/27/13 08:12	05/04/13 11:50	7439-95-4	
Manganese	**661**	ug/L	10.0	20	04/27/13 08:12	05/04/13 11:50	7439-96-5	
Molybdenum	**6.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7439-98-7	
Nickel	**6.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-02-0	
Potassium	**7950**	ug/L	20.0	1	04/27/13 08:12	05/04/13 11:43	7440-09-7	
Selenium	**13.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7782-49-2	
Silica	**38000**	ug/L	1070	20	04/27/13 08:12	05/04/13 11:50	7631-86-9	
Silver	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 11:43	7440-22-4	
Sodium	**11300**	ug/L	50.0	1	04/27/13 08:12	05/04/13 11:43	7440-23-5	
Thallium	**0.27**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:43	7440-28-0	
Total Hardness by 2340B	**703000**	ug/L	1420	20	04/27/13 08:12	05/04/13 11:50		
Vanadium	**11.7**	ug/L	0.10	1	04/27/13 08:12	05/04/13 11:43	7440-62-2	
Zinc	**208**	ug/L	5.0	1	04/27/13 08:12	05/04/13 11:43	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6.9**	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:45	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7440-38-2	
Barium, Dissolved	**17.8**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:45	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:45	7440-41-7	
Cadmium, Dissolved	**0.27**	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:45	7440-43-9	
Calcium, Dissolved	**283000**	ug/L	400	20	04/27/13 08:12	04/30/13 17:53	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7440-48-4	
Copper, Dissolved	**0.80**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:45	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:45	7439-92-1	
Magnesium, Dissolved	**19400**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:45	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-1 SHALLOW_20130417 **Lab ID: 60142948015** Collected: 04/17/13 14:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**2.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7439-96-5	
Molybdenum, Dissolved	**7.6**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	04/30/13 17:49	7440-02-0	
Potassium, Dissolved	**6520**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:45	7440-09-7	
Selenium, Dissolved	**10.9**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:45	7440-22-4	
Sodium, Dissolved	**10500**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:45	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:45	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:45	7440-62-2	
Zinc, Dissolved	**30.6**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:45	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**2860**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:54	7429-90-5	
Antimony, Dissolved	**0.19J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-36-0	
Arsenic, Dissolved	**3.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-38-2	
Barium, Dissolved	**43.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-39-3	
Beryllium, Dissolved	**0.65**	ug/L	0.50	1	04/26/13 14:30	05/01/13 14:33	7440-41-7	
Cadmium, Dissolved	**1.6**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:54	7440-43-9	
Chromium, Dissolved	**3.9**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-47-3	
Cobalt, Dissolved	**4.6**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-48-4	
Copper, Dissolved	**39.4**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-50-8	
Iron, Dissolved	**4210**	ug/L	50.0	1	04/26/13 14:30	04/30/13 12:54	7439-89-6	
Lead, Dissolved	**141**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7439-92-1	
Manganese, Dissolved	**684**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7439-96-5	
Molybdenum, Dissolved	**2.0**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7439-98-7	
Nickel, Dissolved	**3.1**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-02-0	
Selenium, Dissolved	**11.7**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7782-49-2	
Silver, Dissolved	**1.2**	ug/L	0.50	1	04/26/13 14:30	04/30/13 12:54	7440-22-4	
Thallium, Dissolved	**0.097J**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-28-0	
Vanadium, Dissolved	**4.3**	ug/L	1.0	1	04/26/13 14:30	04/30/13 12:54	7440-62-2	
Zinc, Dissolved	**206**	ug/L	10.0	1	04/26/13 14:30	04/30/13 12:54	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:15	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:35	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 10:56	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1270**	umhos/cm	10.0	1		04/24/13 15:58		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-1 SHALLOW_20130417 **Lab ID: 60142948015** Collected: 04/17/13 14:45 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**815**	mg/L	6.4	1		04/26/13 13:35		
Salinity (as seawater)	**0.63**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.7**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**81.7**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**727**	mg/L	5.0	1		04/23/13 10:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**718**	mg/L	5.0	1		04/24/13 11:31		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.1**	mg/L	1.0	1		05/01/13 01:27	16887-00-6	
Sulfate	**606**	mg/L	100	100		05/01/13 14:09	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:35		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:36	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.2**	mg/L	1.0	1		05/03/13 09:48	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-2 DEEP_20130417 **Lab ID: 60142948016** Collected: 04/17/13 13:49 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**231000**	ug/L	100	1	04/26/13 14:30	05/02/13 12:58	7440-70-2	M1
Magnesium, Dissolved	**20600**	ug/L	50.0	1	04/26/13 14:30	05/02/13 12:58	7439-95-4	
Potassium, Dissolved	**1570**	ug/L	500	1	04/26/13 14:30	05/02/13 12:58	7440-09-7	
Sodium, Dissolved	**10300**	ug/L	500	1	04/26/13 14:30	05/02/13 12:58	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1180**	ug/L	4.0	1	04/27/13 08:12	05/04/13 12:15	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-36-0	
Arsenic	**2.7**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-38-2	
Barium	**19.5**	ug/L	0.30	1	04/27/13 08:12	05/04/13 12:15	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 12:15	7440-41-7	
Cadmium	**1.1**	ug/L	0.080	1	04/27/13 08:12	05/04/13 12:15	7440-43-9	
Calcium	**256000**	ug/L	400	20	04/27/13 08:12	05/04/13 12:21	7440-70-2	
Chromium	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-48-4	
Copper	**6.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-50-8	
Iron	**2250**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:15	7439-89-6	
Lead	**6.9**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:15	7439-92-1	
Magnesium	**22000**	ug/L	5.0	1	04/27/13 08:12	05/04/13 12:15	7439-95-4	
Manganese	**33.1**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7439-96-5	
Molybdenum	**7.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7439-98-7	
Nickel	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-02-0	
Potassium	**2030**	ug/L	20.0	1	04/27/13 08:12	05/04/13 12:15	7440-09-7	
Selenium	**1.4**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7782-49-2	
Silica	**13700**	ug/L	1070	20	04/27/13 08:12	05/04/13 12:21	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:15	7440-22-4	
Sodium	**11200**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:15	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:15	7440-28-0	
Total Hardness by 2340B	**729000**	ug/L	1420	20	04/27/13 08:12	05/04/13 12:21		
Vanadium	**2.3**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:15	7440-62-2	
Zinc	**38.9**	ug/L	5.0	1	04/27/13 08:12	05/04/13 12:15	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:49	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7440-38-2	
Barium, Dissolved	**11.6**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:49	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:49	7440-41-7	
Cadmium, Dissolved	**0.78**	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:49	7440-43-9	
Calcium, Dissolved	**303000**	ug/L	400	20	04/27/13 08:12	04/30/13 18:20	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7440-48-4	
Copper, Dissolved	**0.64**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:49	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:49	7439-92-1	
Magnesium, Dissolved	**21400**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:49	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-2 DEEP_20130417 **Lab ID: 60142948016** Collected: 04/17/13 13:49 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7439-96-5	
Molybdenum, Dissolved	**6.7**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	04/30/13 18:15	7440-02-0	
Potassium, Dissolved	**1620**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:49	7440-09-7	
Selenium, Dissolved	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:49	7440-22-4	
Sodium, Dissolved	**10300**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:49	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:49	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:49	7440-62-2	
Zinc, Dissolved	**16.1**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:49	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**501**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:32	7429-90-5	
Antimony, Dissolved	**0.33J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-36-0	B
Arsenic, Dissolved	**1.3**	ug/L	1.0	1	05/01/13 11:34	05/03/13 12:13	7440-38-2	
Barium, Dissolved	**17.7**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-39-3	
Beryllium, Dissolved	**0.088J**	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:32	7440-41-7	
Cadmium, Dissolved	**1.1**	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:32	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-47-3	B
Cobalt, Dissolved	**0.31J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-48-4	
Copper, Dissolved	**5.4**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-50-8	
Iron, Dissolved	**1510**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:32	7439-89-6	
Lead, Dissolved	**8.0**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7439-92-1	
Manganese, Dissolved	**41.4**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7439-96-5	
Molybdenum, Dissolved	**3.7**	ug/L	1.0	1	05/01/13 11:34	05/03/13 12:13	7439-98-7	
Nickel, Dissolved	**0.77J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-02-0	
Selenium, Dissolved	**1.3**	ug/L	1.0	1	05/01/13 11:34	05/03/13 12:13	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:32	7440-22-4	
Thallium, Dissolved	**0.14J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-28-0	
Vanadium, Dissolved	**1.7**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:32	7440-62-2	
Zinc, Dissolved	**37.6**	ug/L	10.0	1	05/01/13 11:34	05/02/13 14:32	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:22	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:37	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:03	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1260**	umhos/cm	10.0	1		04/24/13 15:59		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**807**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: MW-2 DEEP_20130417 **Lab ID: 60142948016** Collected: 04/17/13 13:49 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.63**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.7**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**81.7**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1000**	mg/L	5.0	1		04/23/13 10:42		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**44.0**	mg/L	5.0	1		04/24/13 11:31		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		05/01/13 01:43	16887-00-6	
Sulfate	**631**	mg/L	100	100		05/01/13 14:25	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:37		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:37	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/03/13 10:10	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: EB-2_20130417 **Lab ID: 60142948017** Collected: 04/17/13 09:55 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**286000**	ug/L	500	5	04/26/13 14:30	05/02/13 13:06	7440-70-2	
Magnesium, Dissolved	**141000**	ug/L	250	5	04/26/13 14:30	05/02/13 13:06	7439-95-4	
Potassium, Dissolved	**14400**	ug/L	2500	5	04/26/13 14:30	05/02/13 13:06	7440-09-7	
Sodium, Dissolved	**6120**	ug/L	2500	5	04/26/13 14:30	05/02/13 13:06	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**20600**	ug/L	4.0	1	04/27/13 08:12	05/04/13 12:28	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-36-0	
Arsenic	**393**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-38-2	
Barium	**26.5**	ug/L	0.30	1	04/27/13 08:12	05/04/13 12:28	7440-39-3	
Beryllium	**8.6**	ug/L	0.20	1	04/27/13 08:12	05/04/13 12:28	7440-41-7	
Cadmium	**6.8**	ug/L	0.080	1	04/27/13 08:12	05/04/13 12:28	7440-43-9	
Calcium	**346000**	ug/L	400	20	04/27/13 08:12	05/04/13 12:34	7440-70-2	
Chromium	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-47-3	
Cobalt	**89.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-48-4	
Copper	**93.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-50-8	
Iron	**715000**	ug/L	10000	200	04/27/13 08:12	04/28/13 18:50	7439-89-6	
Lead	**877**	ug/L	2.0	20	04/27/13 08:12	05/04/13 12:34	7439-92-1	
Magnesium	**173000**	ug/L	100	20	04/27/13 08:12	05/04/13 12:34	7439-95-4	
Manganese	**36700**	ug/L	100	200	04/27/13 08:12	04/28/13 18:50	7439-96-5	
Molybdenum	**4.6**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7439-98-7	
Nickel	**120**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-02-0	
Potassium	**17100**	ug/L	20.0	1	04/27/13 08:12	05/04/13 12:28	7440-09-7	
Selenium	**1.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7782-49-2	
Silica	**46100**	ug/L	1070	20	04/27/13 08:12	05/04/13 12:34	7631-86-9	
Silver	**2.8**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:28	7440-22-4	
Sodium	**6890**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:28	7440-23-5	
Thallium	**0.16**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:28	7440-28-0	
Total Hardness by 2340B	**1580000**	ug/L	1420	20	04/27/13 08:12	05/04/13 12:34		
Vanadium	**1.5**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:28	7440-62-2	
Zinc	**82900**	ug/L	1000	200	04/27/13 08:12	04/28/13 18:50	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**18700**	ug/L	20.0	5	04/27/13 08:12	05/03/13 17:58	7429-90-5	
Antimony, Dissolved	ND	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7440-36-0	D3
Arsenic, Dissolved	**312**	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7440-38-2	
Barium, Dissolved	**9.3**	ug/L	1.5	5	04/27/13 08:12	05/03/13 17:58	7440-39-3	
Beryllium, Dissolved	**8.4**	ug/L	1.0	5	04/27/13 08:12	05/03/13 17:58	7440-41-7	
Cadmium, Dissolved	**1.8**	ug/L	0.40	5	04/27/13 08:12	05/03/13 17:58	7440-43-9	
Calcium, Dissolved	**403000**	ug/L	400	20	04/27/13 08:12	04/30/13 18:29	7440-70-2	
Chromium, Dissolved	ND	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7440-47-3	D3
Cobalt, Dissolved	**94.8**	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7440-48-4	
Copper, Dissolved	ND	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7440-50-8	D3
Iron, Dissolved	**683000**	ug/L	10000	200	04/27/13 08:12	04/30/13 18:33	7439-89-6	
Lead, Dissolved	**4.3**	ug/L	0.50	5	04/27/13 08:12	05/03/13 17:58	7439-92-1	
Magnesium, Dissolved	**154000**	ug/L	100	20	04/27/13 08:12	04/30/13 18:29	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: EB-2_20130417 **Lab ID: 60142948017** Collected: 04/17/13 09:55 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**35700**	ug/L	100	200	04/27/13 08:12	04/30/13 18:33	7439-96-5	
Molybdenum, Dissolved	**3.1**	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7439-98-7	
Nickel, Dissolved	**147**	ug/L	10.0	20	04/27/13 08:12	04/30/13 18:29	7440-02-0	
Potassium, Dissolved	**16200**	ug/L	100	5	04/27/13 08:12	05/03/13 17:58	7440-09-7	
Selenium, Dissolved	ND	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7782-49-2	D3
Silver, Dissolved	ND	ug/L	2.5	5	04/27/13 08:12	05/03/13 17:58	7440-22-4	D3
Sodium, Dissolved	**6700**	ug/L	250	5	04/27/13 08:12	05/03/13 17:58	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.50	5	04/27/13 08:12	05/03/13 17:58	7440-28-0	D3
Vanadium, Dissolved	ND	ug/L	0.50	5	04/27/13 08:12	05/03/13 17:58	7440-62-2	D3
Zinc, Dissolved	**74000**	ug/L	1000	200	04/27/13 08:12	04/30/13 18:33	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**18200**	ug/L	250	5	05/01/13 11:34	05/02/13 14:36	7429-90-5	
Antimony, Dissolved	**3.0J**	ug/L	10.0	10	05/01/13 11:34	05/03/13 12:17	7440-36-0	B
Arsenic, Dissolved	**404**	ug/L	10.0	10	05/01/13 11:34	05/03/13 12:17	7440-38-2	
Barium, Dissolved	**13.7**	ug/L	10.0	10	05/01/13 11:34	05/03/13 12:17	7440-39-3	
Beryllium, Dissolved	**7.3**	ug/L	2.5	5	05/01/13 11:34	05/02/13 14:36	7440-41-7	
Cadmium, Dissolved	**4.8**	ug/L	2.5	5	05/01/13 11:34	05/02/13 14:36	7440-43-9	
Chromium, Dissolved	**2.3J**	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7440-47-3	B
Cobalt, Dissolved	**91.3**	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7440-48-4	
Copper, Dissolved	**70.4**	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7440-50-8	
Iron, Dissolved	**691000**	ug/L	5000	100	05/01/13 11:34	05/03/13 12:21	7439-89-6	
Lead, Dissolved	**724**	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7439-92-1	
Manganese, Dissolved	**35500**	ug/L	100	100	05/01/13 11:34	05/03/13 12:21	7439-96-5	
Molybdenum, Dissolved	**4.5J**	ug/L	10.0	10	05/01/13 11:34	05/03/13 12:17	7439-98-7	
Nickel, Dissolved	**138**	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7440-02-0	
Selenium, Dissolved	ND	ug/L	10.0	10	05/01/13 11:34	05/03/13 12:17	7782-49-2	D3
Silver, Dissolved	ND	ug/L	2.5	5	05/01/13 11:34	05/02/13 14:36	7440-22-4	D3
Thallium, Dissolved	**0.18J**	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7440-28-0	
Vanadium, Dissolved	ND	ug/L	5.0	5	05/01/13 11:34	05/02/13 14:36	7440-62-2	D3
Zinc, Dissolved	**71600**	ug/L	50.0	5	05/01/13 11:34	05/02/13 14:36	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:25	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 12:08	04/30/13 13:42	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:14	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**3760**	umhos/cm	10.0	1		04/24/13 16:02		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**2400**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: EB-2_20130417 **Lab ID: 60142948017** Collected: 04/17/13 09:55 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**2.0**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**4580**	mg/L	5.0	1		04/23/13 10:42		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**232**	mg/L	5.0	1		04/24/13 11:31		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/23/13 16:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**4.3**	mg/L	1.0	1		05/01/13 02:29	16887-00-6	
Sulfate	**3080**	mg/L	500	500		05/01/13 14:40	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:38		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:37	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.0**	mg/L	1.0	1		05/03/13 10:19	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-7_20130418 **Lab ID: 60142948018** Collected: 04/18/13 10:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**66300**	ug/L	100	1	04/26/13 14:30	05/02/13 13:09	7440-70-2	
Magnesium, Dissolved	**9680**	ug/L	50.0	1	04/26/13 14:30	05/02/13 13:09	7439-95-4	
Potassium, Dissolved	**1640**	ug/L	500	1	04/26/13 14:30	05/02/13 13:09	7440-09-7	
Sodium, Dissolved	**5960**	ug/L	500	1	04/26/13 14:30	05/02/13 13:09	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**146**	ug/L	4.0	1	04/27/13 08:12	05/04/13 12:40	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-36-0	
Arsenic	**0.90**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-38-2	
Barium	**65.1**	ug/L	0.30	1	04/27/13 08:12	05/04/13 12:40	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 12:40	7440-41-7	
Cadmium	**0.22**	ug/L	0.080	1	04/27/13 08:12	05/04/13 12:40	7440-43-9	
Calcium	**70900**	ug/L	400	20	04/27/13 08:12	05/04/13 12:47	7440-70-2	
Chromium	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-48-4	
Copper	**1.2**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-50-8	
Iron	**484**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:40	7439-89-6	
Lead	**0.60**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:40	7439-92-1	
Magnesium	**10200**	ug/L	5.0	1	04/27/13 08:12	05/04/13 12:40	7439-95-4	
Manganese	**178**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7439-96-5	
Molybdenum	**1.5**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7439-98-7	
Nickel	**0.55**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-02-0	
Potassium	**1780**	ug/L	20.0	1	04/27/13 08:12	05/04/13 12:40	7440-09-7	
Selenium	**1.0**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7782-49-2	
Silica	**10300**	ug/L	1070	20	04/27/13 08:12	05/04/13 12:47	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:40	7440-22-4	
Sodium	**6390**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:40	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:40	7440-28-0	
Total Hardness by 2340B	**219000**	ug/L	1420	20	04/27/13 08:12	05/04/13 12:47		
Vanadium	**0.31**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:40	7440-62-2	
Zinc	**97.5**	ug/L	5.0	1	04/27/13 08:12	05/04/13 12:40	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.6**	ug/L	4.0	1	04/27/13 08:12	05/03/13 17:53	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7440-36-0	
Arsenic, Dissolved	**0.55**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7440-38-2	
Barium, Dissolved	**61.3**	ug/L	0.30	1	04/27/13 08:12	05/03/13 17:53	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 17:53	7440-41-7	
Cadmium, Dissolved	**0.091**	ug/L	0.080	1	04/27/13 08:12	05/03/13 17:53	7440-43-9	
Calcium, Dissolved	**85400**	ug/L	400	20	04/27/13 08:12	04/30/13 18:42	7440-70-2	
Chromium, Dissolved	**0.52**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7440-48-4	
Copper, Dissolved	**1.6**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:53	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:53	7439-92-1	
Magnesium, Dissolved	**9960**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:53	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-7_20130418 **Lab ID: 60142948018** Collected: 04/18/13 10:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**159**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7439-96-5	
Molybdenum, Dissolved	**1.5**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7439-98-7	
Nickel, Dissolved	**3.8**	ug/L	0.50	1	04/27/13 08:12	04/30/13 18:38	7440-02-0	
Potassium, Dissolved	**1660**	ug/L	20.0	1	04/27/13 08:12	05/03/13 17:53	7440-09-7	
Selenium, Dissolved	**0.95**	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 17:53	7440-22-4	
Sodium, Dissolved	**5870**	ug/L	50.0	1	04/27/13 08:12	05/03/13 17:53	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:53	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 17:53	7440-62-2	
Zinc, Dissolved	**69.5**	ug/L	5.0	1	04/27/13 08:12	05/03/13 17:53	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**51.4**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:40	7429-90-5	
Antimony, Dissolved	**0.24J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-36-0	B
Arsenic, Dissolved	**0.52J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-38-2	
Barium, Dissolved	**58.7**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:40	7440-41-7	
Cadmium, Dissolved	**0.24J**	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:40	7440-43-9	
Chromium, Dissolved	**0.83J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-47-3	B
Cobalt, Dissolved	**0.21J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-50-8	
Iron, Dissolved	**245**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:40	7439-89-6	
Lead, Dissolved	**0.38J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7439-92-1	
Manganese, Dissolved	**167**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7439-96-5	
Molybdenum, Dissolved	**1.3**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7439-98-7	
Nickel, Dissolved	**0.89J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-02-0	
Selenium, Dissolved	**0.82J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:40	7440-22-4	
Thallium, Dissolved	**0.023J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:40	7440-62-2	
Zinc, Dissolved	**73.3**	ug/L	10.0	1	05/01/13 11:34	05/02/13 14:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:27	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/27/13 08:18	04/29/13 14:36	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:16	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**484**	umhos/cm	10.0	1		04/24/13 16:05		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**310**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-7_20130418 **Lab ID: 60142948018** Collected: 04/18/13 10:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.23**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**106**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**269**	mg/L	5.0	1		04/25/13 12:12		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5.0**	mg/L	5.0	1		04/25/13 12:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/24/13 15:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.5**	mg/L	1.0	1		05/01/13 03:00	16887-00-6	
Sulfate	**106**	mg/L	10.0	10		05/01/13 15:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.25**	mg/L	0.10	1		04/26/13 12:39		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.040**	mg/L	0.0050	1		04/24/13 14:41	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.0**	mg/L	1.0	1		05/03/13 10:27	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-7 COMPOSITE_20130418 **Lab ID: 60142948019** Collected: 04/18/13 10:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**54900**	ug/L	100	1	04/26/13 14:30	05/02/13 13:11	7440-70-2	
Magnesium, Dissolved	**7980**	ug/L	50.0	1	04/26/13 14:30	05/02/13 13:11	7439-95-4	
Potassium, Dissolved	**1110**	ug/L	500	1	04/26/13 14:30	05/02/13 13:11	7440-09-7	
Sodium, Dissolved	**4690**	ug/L	500	1	04/26/13 14:30	05/02/13 13:11	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**175**	ug/L	4.0	1	04/27/13 08:12	05/04/13 12:53	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-38-2	
Barium	**65.5**	ug/L	0.30	1	04/27/13 08:12	05/04/13 12:53	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/27/13 08:12	05/04/13 12:53	7440-41-7	
Cadmium	**0.11**	ug/L	0.080	1	04/27/13 08:12	05/04/13 12:53	7440-43-9	
Calcium	**58700**	ug/L	400	20	04/27/13 08:12	05/04/13 12:59	7440-70-2	
Chromium	**0.52**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-48-4	
Copper	**0.99**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-50-8	
Iron	**294**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:53	7439-89-6	
Lead	**0.33**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:53	7439-92-1	
Magnesium	**8360**	ug/L	5.0	1	04/27/13 08:12	05/04/13 12:53	7439-95-4	
Manganese	**124**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7439-96-5	
Molybdenum	**1.3**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7439-98-7	
Nickel	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-02-0	
Potassium	**1230**	ug/L	20.0	1	04/27/13 08:12	05/04/13 12:53	7440-09-7	
Selenium	**0.95**	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7782-49-2	
Silica	**8040**	ug/L	1070	20	04/27/13 08:12	05/04/13 12:59	7631-86-9	
Silver	ND	ug/L	0.50	1	04/27/13 08:12	05/04/13 12:53	7440-22-4	
Sodium	**4980**	ug/L	50.0	1	04/27/13 08:12	05/04/13 12:53	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:53	7440-28-0	
Total Hardness by 2340B	**181000**	ug/L	1420	20	04/27/13 08:12	05/04/13 12:59		
Vanadium	**0.40**	ug/L	0.10	1	04/27/13 08:12	05/04/13 12:53	7440-62-2	
Zinc	**35.7**	ug/L	5.0	1	04/27/13 08:12	05/04/13 12:53	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**4.9**	ug/L	4.0	1	04/27/13 08:12	05/03/13 18:21	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-38-2	
Barium, Dissolved	**61.9**	ug/L	0.30	1	04/27/13 08:12	05/03/13 18:21	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/27/13 08:12	05/03/13 18:21	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/27/13 08:12	05/03/13 18:21	7440-43-9	
Calcium, Dissolved	**56600**	ug/L	100	5	04/27/13 08:12	05/03/13 18:25	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-48-4	
Copper, Dissolved	**1.6**	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/27/13 08:12	05/03/13 18:21	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 18:21	7439-92-1	
Magnesium, Dissolved	**8320**	ug/L	5.0	1	04/27/13 08:12	05/03/13 18:21	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-7 COMPOSITE_20130418 **Lab ID: 60142948019** Collected: 04/18/13 10:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**114**	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7439-98-7	
Nickel, Dissolved	**4.3**	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-02-0	
Potassium, Dissolved	**1200**	ug/L	20.0	1	04/27/13 08:12	05/03/13 18:21	7440-09-7	
Selenium, Dissolved	**0.94**	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/27/13 08:12	05/03/13 18:21	7440-22-4	
Sodium, Dissolved	**4710**	ug/L	50.0	1	04/27/13 08:12	05/03/13 18:21	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 18:21	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/27/13 08:12	05/03/13 18:21	7440-62-2	
Zinc, Dissolved	**33.3**	ug/L	5.0	1	04/27/13 08:12	05/03/13 18:21	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**52.4**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:44	7429-90-5	
Antimony, Dissolved	**0.25J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-36-0	B
Arsenic, Dissolved	**0.26J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-38-2	
Barium, Dissolved	**60.3**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:44	7440-41-7	
Cadmium, Dissolved	**0.16J**	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:44	7440-43-9	
Chromium, Dissolved	**1.2**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-47-3	B
Cobalt, Dissolved	**0.16J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-48-4	
Copper, Dissolved	**0.99J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-50-8	
Iron, Dissolved	**192**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:44	7439-89-6	
Lead, Dissolved	**0.21J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7439-92-1	
Manganese, Dissolved	**123**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7439-96-5	
Molybdenum, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7439-98-7	
Nickel, Dissolved	**0.88J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-02-0	
Selenium, Dissolved	**0.75J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:44	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:44	7440-62-2	
Zinc, Dissolved	**37.7**	ug/L	10.0	1	05/01/13 11:34	05/02/13 14:44	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:30	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/27/13 08:18	04/29/13 14:38	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:18	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**384**	umhos/cm	10.0	1		04/24/13 16:08		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-7 COMPOSITE_20130418 **Lab ID: 60142948019** Collected: 04/18/13 10:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**246**	mg/L	6.4	1		04/26/13 13:35		
Salinity (as seawater)	**0.18**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**103**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**229**	mg/L	5.0	1		04/25/13 12:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		04/25/13 12:36		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/24/13 15:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.5**	mg/L	1.0	1		05/01/13 03:15	16887-00-6	
Sulfate	**77.2**	mg/L	10.0	10		05/01/13 15:26	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:40		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:46	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.1**	mg/L	1.0	1		05/03/13 10:35	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-2_20130418 **Lab ID: 60142948020** Collected: 04/18/13 11:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**45300**	ug/L	100	1	04/26/13 14:30	05/02/13 13:13	7440-70-2	
Magnesium, Dissolved	**6770**	ug/L	50.0	1	04/26/13 14:30	05/02/13 13:13	7439-95-4	
Potassium, Dissolved	**769**	ug/L	500	1	04/26/13 14:30	05/02/13 13:13	7440-09-7	
Sodium, Dissolved	**3800**	ug/L	500	1	04/26/13 14:30	05/02/13 13:13	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**238**	ug/L	4.0	1	04/28/13 06:39	05/02/13 01:45	7429-90-5	M1
Antimony	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-38-2	
Barium	**66.5**	ug/L	0.30	1	04/28/13 06:39	05/02/13 01:45	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 01:45	7440-41-7	
Cadmium	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 01:45	7440-43-9	
Calcium	**46300**	ug/L	100	5	04/28/13 06:39	05/02/13 02:04	7440-70-2	M1
Chromium	**0.78**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-48-4	
Copper	**1.3**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-50-8	
Iron	**538**	ug/L	50.0	1	04/28/13 06:39	05/02/13 01:45	7439-89-6	
Lead	**0.50**	ug/L	0.10	1	04/28/13 06:39	05/02/13 01:45	7439-92-1	
Magnesium	**6970**	ug/L	5.0	1	04/28/13 06:39	05/02/13 01:45	7439-95-4	M1
Manganese	**93.8**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7439-96-5	
Molybdenum	**1.1**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7439-98-7	
Nickel	**0.92**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-02-0	
Potassium	**876**	ug/L	20.0	1	04/28/13 06:39	05/02/13 01:45	7440-09-7	
Selenium	**0.95**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7782-49-2	
Silica	**6840**	ug/L	268	5	04/28/13 06:39	05/02/13 02:04	7631-86-9	M1
Silver	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:45	7440-22-4	
Sodium	**3810**	ug/L	50.0	1	04/28/13 06:39	05/02/13 01:45	7440-23-5	M1
Thallium	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 01:45	7440-28-0	
Total Hardness by 2340B	**144000**	ug/L	355	5	04/28/13 06:39	05/02/13 02:04		
Vanadium	**0.60**	ug/L	0.10	1	04/28/13 06:39	05/02/13 01:45	7440-62-2	
Zinc	**8.9**	ug/L	5.0	1	04/28/13 06:39	05/02/13 01:45	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**21.8**	ug/L	4.0	1	04/28/13 06:39	05/02/13 03:35	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-38-2	
Barium, Dissolved	**63.4**	ug/L	0.30	1	04/28/13 06:39	05/02/13 03:35	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 03:35	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 03:35	7440-43-9	
Calcium, Dissolved	**46800**	ug/L	100	5	04/28/13 06:39	05/02/13 03:55	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-48-4	
Copper, Dissolved	**0.97**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/28/13 06:39	05/02/13 03:35	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:35	7439-92-1	
Magnesium, Dissolved	**6830**	ug/L	5.0	1	04/28/13 06:39	05/02/13 03:35	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-2_20130418 **Lab ID: 60142948020** Collected: 04/18/13 11:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**71.8**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7439-96-5	
Molybdenum, Dissolved	**0.94**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7439-98-7	
Nickel, Dissolved	**0.70**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-02-0	
Potassium, Dissolved	**822**	ug/L	20.0	1	04/28/13 06:39	05/02/13 03:35	7440-09-7	
Selenium, Dissolved	**1.0**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:35	7440-22-4	
Sodium, Dissolved	**3820**	ug/L	50.0	1	04/28/13 06:39	05/02/13 03:35	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:35	7440-28-0	
Vanadium, Dissolved	**0.11**	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:35	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	04/28/13 06:39	05/02/13 03:35	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**56.0**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:48	7429-90-5	
Antimony, Dissolved	**0.24J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-36-0	B
Arsenic, Dissolved	**0.17J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-38-2	
Barium, Dissolved	**58.6**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:48	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:48	7440-43-9	
Chromium, Dissolved	**1.6**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-47-3	B
Cobalt, Dissolved	**0.14J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-48-4	
Copper, Dissolved	**0.73J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-50-8	
Iron, Dissolved	**283**	ug/L	50.0	1	05/01/13 11:34	05/02/13 14:48	7439-89-6	
Lead, Dissolved	**0.33J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7439-92-1	
Manganese, Dissolved	**94.7**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7439-96-5	
Molybdenum, Dissolved	**0.81J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7439-98-7	
Nickel, Dissolved	**1.0**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-02-0	
Selenium, Dissolved	**0.70J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 14:48	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 14:48	7440-62-2	
Zinc, Dissolved	**23.5**	ug/L	10.0	1	05/01/13 11:34	05/02/13 14:48	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:24	05/01/13 11:32	7439-97-6	M1
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/27/13 08:18	04/29/13 14:45	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:20	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**305**	umhos/cm	10.0	1		04/24/13 16:09		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**195**	mg/L	6.4	1		04/26/13 13:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-2_20130418 **Lab ID: 60142948020** Collected: 04/18/13 11:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.15**	PSU	0.014	1		04/26/13 13:35		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**85.5**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**85.5**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**102**	mg/L	5.0	1		04/25/13 12:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**12.0**	mg/L	5.0	1		04/25/13 12:37		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/24/13 15:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.4**	mg/L	1.0	1		05/01/13 03:30	16887-00-6	
Sulfate	**55.1**	mg/L	5.0	5		05/01/13 15:42	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:41		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:49	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.0**	mg/L	1.0	1		05/03/13 10:43	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-2 COMPOSITE_20130418 **Lab ID: 60142948021** Collected: 04/18/13 11:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**45900**	ug/L	100	1	04/26/13 14:30	05/02/13 13:20	7440-70-2	
Magnesium, Dissolved	**7060**	ug/L	50.0	1	04/26/13 14:30	05/02/13 13:20	7439-95-4	
Potassium, Dissolved	**845**	ug/L	500	1	04/26/13 14:30	05/02/13 13:20	7440-09-7	
Sodium, Dissolved	**4010**	ug/L	500	1	04/26/13 14:30	05/02/13 13:20	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**263**	ug/L	4.0	1	04/28/13 06:39	05/02/13 01:36	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-38-2	
Barium	**66.3**	ug/L	0.30	1	04/28/13 06:39	05/02/13 01:36	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 01:36	7440-41-7	
Cadmium	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 01:36	7440-43-9	
Calcium	**45300**	ug/L	400	20	04/28/13 06:39	05/02/13 01:41	7440-70-2	
Chromium	**0.56**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-48-4	
Copper	**1.0**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-50-8	
Iron	**370**	ug/L	50.0	1	04/28/13 06:39	05/02/13 01:36	7439-89-6	
Lead	**0.52**	ug/L	0.10	1	04/28/13 06:39	05/02/13 01:36	7439-92-1	
Magnesium	**7240**	ug/L	5.0	1	04/28/13 06:39	05/02/13 01:36	7439-95-4	
Manganese	**95.4**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7439-96-5	
Molybdenum	**0.90**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7439-98-7	
Nickel	**0.64**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-02-0	
Potassium	**962**	ug/L	20.0	1	04/28/13 06:39	05/02/13 01:36	7440-09-7	
Selenium	**1.0**	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7782-49-2	
Silica	**7760**	ug/L	1070	20	04/28/13 06:39	05/02/13 01:41	7631-86-9	
Silver	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 01:36	7440-22-4	
Sodium	**4030**	ug/L	50.0	1	04/28/13 06:39	05/02/13 01:36	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 01:36	7440-28-0	
Total Hardness by 2340B	**143000**	ug/L	1420	20	04/28/13 06:39	05/02/13 01:41		
Vanadium	**0.61**	ug/L	0.10	1	04/28/13 06:39	05/02/13 01:36	7440-62-2	
Zinc	**6.5**	ug/L	5.0	1	04/28/13 06:39	05/02/13 01:36	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.1**	ug/L	4.0	1	04/28/13 06:39	05/02/13 02:51	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-38-2	
Barium, Dissolved	**63.0**	ug/L	0.30	1	04/28/13 06:39	05/02/13 02:51	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 02:51	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 02:51	7440-43-9	
Calcium, Dissolved	**46100**	ug/L	400	20	04/28/13 06:39	05/02/13 02:55	7440-70-2	
Chromium, Dissolved	**1.1**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-48-4	
Copper, Dissolved	**1.5**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/28/13 06:39	05/02/13 02:51	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:51	7439-92-1	
Magnesium, Dissolved	**7200**	ug/L	5.0	1	04/28/13 06:39	05/02/13 02:51	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-2 COMPOSITE_20130418 **Lab ID: 60142948021** Collected: 04/18/13 11:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**68.8**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7439-96-5	
Molybdenum, Dissolved	**0.94**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7439-98-7	
Nickel, Dissolved	**4.4**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-02-0	
Potassium, Dissolved	**906**	ug/L	20.0	1	04/28/13 06:39	05/02/13 02:51	7440-09-7	
Selenium, Dissolved	**0.92**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:51	7440-22-4	
Sodium, Dissolved	**4070**	ug/L	50.0	1	04/28/13 06:39	05/02/13 02:51	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:51	7440-28-0	
Vanadium, Dissolved	**0.10**	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:51	7440-62-2	
Zinc, Dissolved	**6.2**	ug/L	5.0	1	04/28/13 06:39	05/02/13 02:51	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**82.8**	ug/L	50.0	1	05/01/13 11:34	05/02/13 15:13	7429-90-5	
Antimony, Dissolved	**0.26J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-36-0	B
Arsenic, Dissolved	**0.30J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-38-2	
Barium, Dissolved	**62.3**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:13	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:13	7440-43-9	
Chromium, Dissolved	**1.0**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-47-3	B
Cobalt, Dissolved	**0.20J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-50-8	
Iron, Dissolved	**364**	ug/L	50.0	1	05/01/13 11:34	05/02/13 15:13	7439-89-6	
Lead, Dissolved	**0.64J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7439-92-1	
Manganese, Dissolved	**108**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7439-96-5	
Molybdenum, Dissolved	**0.78J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7439-98-7	
Nickel, Dissolved	**0.84J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-02-0	
Selenium, Dissolved	**0.76J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:13	7440-22-4	
Thallium, Dissolved	**0.023J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-28-0	
Vanadium, Dissolved	**0.37J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:13	7440-62-2	
Zinc, Dissolved	**24.8**	ug/L	10.0	1	05/01/13 11:34	05/02/13 15:13	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:22	04/30/13 14:01	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/27/13 08:18	04/29/13 14:48	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:28	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**318**	umhos/cm	10.0	1		04/24/13 16:53		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-2 COMPOSITE_20130418 **Lab ID: 60142948021** Collected: 04/18/13 11:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**204**	mg/L	6.4	1		04/26/13 11:50		
Salinity (as seawater)	**0.15**	PSU	0.014	1		04/26/13 11:50		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**77.9**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**77.9**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**12.0**	mg/L	5.0	1		04/25/13 12:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**23.0**	mg/L	5.0	1		04/25/13 12:38		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/24/13 15:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.5**	mg/L	1.0	1		05/01/13 03:46	16887-00-6	
Sulfate	**56.3**	mg/L	5.0	5		05/01/13 15:57	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:42		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:49	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.0**	mg/L	1.0	1		05/03/13 10:50	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-1_20130418 **Lab ID: 60142948022** Collected: 04/18/13 12:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**38700**	ug/L	100	1	04/26/13 14:30	05/02/13 13:22	7440-70-2	
Magnesium, Dissolved	**6290**	ug/L	50.0	1	04/26/13 14:30	05/02/13 13:22	7439-95-4	
Potassium, Dissolved	**637**	ug/L	500	1	04/26/13 14:30	05/02/13 13:22	7440-09-7	
Sodium, Dissolved	**3690**	ug/L	500	1	04/26/13 14:30	05/02/13 13:22	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**218**	ug/L	4.0	1	04/28/13 06:39	05/02/13 02:34	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-38-2	
Barium	**69.8**	ug/L	0.30	1	04/28/13 06:39	05/02/13 02:34	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 02:34	7440-41-7	
Cadmium	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 02:34	7440-43-9	
Calcium	**38400**	ug/L	400	20	04/28/13 06:39	05/02/13 02:38	7440-70-2	
Chromium	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-48-4	
Copper	**1.2**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-50-8	
Iron	**332**	ug/L	50.0	1	04/28/13 06:39	05/02/13 02:34	7439-89-6	
Lead	**0.58**	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:34	7439-92-1	
Magnesium	**6480**	ug/L	5.0	1	04/28/13 06:39	05/02/13 02:34	7439-95-4	
Manganese	**37.9**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7439-96-5	
Molybdenum	**0.80**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7439-98-7	
Nickel	**0.74**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-02-0	
Potassium	**744**	ug/L	20.0	1	04/28/13 06:39	05/02/13 02:34	7440-09-7	
Selenium	**1.0**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7782-49-2	
Silica	**6670**	ug/L	1070	20	04/28/13 06:39	05/02/13 02:38	7631-86-9	
Silver	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:34	7440-22-4	
Sodium	**3660**	ug/L	50.0	1	04/28/13 06:39	05/02/13 02:34	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:34	7440-28-0	
Total Hardness by 2340B	**122000**	ug/L	1420	20	04/28/13 06:39	05/02/13 02:38		
Vanadium	**0.57**	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:34	7440-62-2	
Zinc	ND	ug/L	5.0	1	04/28/13 06:39	05/02/13 02:34	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.2**	ug/L	4.0	1	04/28/13 06:39	05/02/13 03:00	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-38-2	
Barium, Dissolved	**65.1**	ug/L	0.30	1	04/28/13 06:39	05/02/13 03:00	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 03:00	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 03:00	7440-43-9	
Calcium, Dissolved	**37800**	ug/L	400	20	04/28/13 06:39	05/02/13 03:04	7440-70-2	
Chromium, Dissolved	**1.1**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-48-4	
Copper, Dissolved	**1.2**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/28/13 06:39	05/02/13 03:00	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:00	7439-92-1	
Magnesium, Dissolved	**6370**	ug/L	5.0	1	04/28/13 06:39	05/02/13 03:00	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-1_20130418 **Lab ID: 60142948022** Collected: 04/18/13 12:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**9.6**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7439-96-5	
Molybdenum, Dissolved	**0.76**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7439-98-7	
Nickel, Dissolved	**0.90**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-02-0	
Potassium, Dissolved	**696**	ug/L	20.0	1	04/28/13 06:39	05/02/13 03:00	7440-09-7	
Selenium, Dissolved	**1.1**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:00	7440-22-4	
Sodium, Dissolved	**3700**	ug/L	50.0	1	04/28/13 06:39	05/02/13 03:00	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:00	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:00	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	04/28/13 06:39	05/02/13 03:00	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**62.9**	ug/L	50.0	1	05/01/13 11:34	05/02/13 15:17	7429-90-5	
Antimony, Dissolved	**0.25J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-36-0	B
Arsenic, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-38-2	
Barium, Dissolved	**61.8**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:17	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:17	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-47-3	B
Cobalt, Dissolved	**0.16J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-48-4	
Copper, Dissolved	**1.0**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-50-8	
Iron, Dissolved	**160**	ug/L	50.0	1	05/01/13 11:34	05/02/13 15:17	7439-89-6	
Lead, Dissolved	**0.27J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7439-92-1	
Manganese, Dissolved	**31.2**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7439-96-5	
Molybdenum, Dissolved	**0.63J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7439-98-7	
Nickel, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-02-0	
Selenium, Dissolved	**0.75J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:17	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-28-0	
Vanadium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:17	7440-62-2	
Zinc, Dissolved	**4.5J**	ug/L	10.0	1	05/01/13 11:34	05/02/13 15:17	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:22	04/30/13 14:08	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/27/13 08:18	04/29/13 14:50	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:30	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**273**	umhos/cm	10.0	1		04/24/13 16:55		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**175**	mg/L	6.4	1		04/26/13 11:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-1_20130418 **Lab ID: 60142948022** Collected: 04/18/13 12:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.13**	PSU	0.014	1		04/26/13 11:50		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**83.6**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**83.6**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**11.0**	mg/L	5.0	1		04/25/13 12:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**20.0**	mg/L	5.0	1		04/25/13 12:38		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/24/13 15:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.5**	mg/L	1.0	1		05/01/13 04:01	16887-00-6	
Sulfate	**40.1**	mg/L	5.0	5		05/01/13 16:13	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:45		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:50	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.2**	mg/L	1.0	1		05/03/13 10:58	7440-44-0	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-1 COMPOSITE_20130418 **Lab ID: 60142948023** Collected: 04/18/13 12:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**39400**	ug/L	100	1	04/26/13 14:30	05/02/13 13:24	7440-70-2	
Magnesium, Dissolved	**6390**	ug/L	50.0	1	04/26/13 14:30	05/02/13 13:24	7439-95-4	
Potassium, Dissolved	**670**	ug/L	500	1	04/26/13 14:30	05/02/13 13:24	7440-09-7	
Sodium, Dissolved	**3690**	ug/L	500	1	04/26/13 14:30	05/02/13 13:24	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**346**	ug/L	4.0	1	04/28/13 06:39	05/02/13 02:42	7429-90-5	
Antimony	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-36-0	
Arsenic	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-38-2	
Barium	**70.3**	ug/L	0.30	1	04/28/13 06:39	05/02/13 02:42	7440-39-3	
Beryllium	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 02:42	7440-41-7	
Cadmium	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 02:42	7440-43-9	
Calcium	**39200**	ug/L	400	20	04/28/13 06:39	05/02/13 02:47	7440-70-2	
Chromium	**0.66**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-47-3	
Cobalt	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-48-4	
Copper	**1.4**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-50-8	
Iron	**484**	ug/L	50.0	1	04/28/13 06:39	05/02/13 02:42	7439-89-6	
Lead	**0.74**	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:42	7439-92-1	
Magnesium	**6530**	ug/L	5.0	1	04/28/13 06:39	05/02/13 02:42	7439-95-4	
Manganese	**45.0**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7439-96-5	
Molybdenum	**0.81**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7439-98-7	
Nickel	**0.91**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-02-0	
Potassium	**786**	ug/L	20.0	1	04/28/13 06:39	05/02/13 02:42	7440-09-7	
Selenium	**1.0**	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7782-49-2	
Silica	**7280**	ug/L	1070	20	04/28/13 06:39	05/02/13 02:47	7631-86-9	
Silver	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 02:42	7440-22-4	
Sodium	**3620**	ug/L	50.0	1	04/28/13 06:39	05/02/13 02:42	7440-23-5	
Thallium	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:42	7440-28-0	
Total Hardness by 2340B	**125000**	ug/L	1420	20	04/28/13 06:39	05/02/13 02:47		
Vanadium	**0.87**	ug/L	0.10	1	04/28/13 06:39	05/02/13 02:42	7440-62-2	
Zinc	**5.5**	ug/L	5.0	1	04/28/13 06:39	05/02/13 02:42	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.0**	ug/L	4.0	1	04/28/13 06:39	05/02/13 03:08	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-38-2	
Barium, Dissolved	**64.1**	ug/L	0.30	1	04/28/13 06:39	05/02/13 03:08	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	04/28/13 06:39	05/02/13 03:08	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	04/28/13 06:39	05/02/13 03:08	7440-43-9	
Calcium, Dissolved	**37100**	ug/L	400	20	04/28/13 06:39	05/02/13 03:13	7440-70-2	
Chromium, Dissolved	**0.52**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	04/28/13 06:39	05/02/13 03:08	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:08	7439-92-1	
Magnesium, Dissolved	**6310**	ug/L	5.0	1	04/28/13 06:39	05/02/13 03:08	7439-95-4	

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-1 COMPOSITE_20130418 **Lab ID: 60142948023** Collected: 04/18/13 12:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**9.3**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7439-96-5	
Molybdenum, Dissolved	**0.79**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7439-98-7	
Nickel, Dissolved	**0.66**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-02-0	
Potassium, Dissolved	**688**	ug/L	20.0	1	04/28/13 06:39	05/02/13 03:08	7440-09-7	
Selenium, Dissolved	**1.1**	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	04/28/13 06:39	05/02/13 03:08	7440-22-4	
Sodium, Dissolved	**3640**	ug/L	50.0	1	04/28/13 06:39	05/02/13 03:08	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:08	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	04/28/13 06:39	05/02/13 03:08	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	04/28/13 06:39	05/02/13 03:08	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**78.8**	ug/L	50.0	1	05/01/13 11:34	05/02/13 15:21	7429-90-5	
Antimony, Dissolved	**0.26J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-36-0	B
Arsenic, Dissolved	**0.18J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-38-2	
Barium, Dissolved	**63.5**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:21	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:21	7440-43-9	
Chromium, Dissolved	**0.93J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-47-3	B
Cobalt, Dissolved	**0.25J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-48-4	
Copper, Dissolved	**1.1**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-50-8	
Iron, Dissolved	**230**	ug/L	50.0	1	05/01/13 11:34	05/02/13 15:21	7439-89-6	
Lead, Dissolved	**0.53J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7439-92-1	
Manganese, Dissolved	**50.6**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7439-96-5	
Molybdenum, Dissolved	**0.62J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-02-0	
Selenium, Dissolved	**0.78J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/01/13 11:34	05/02/13 15:21	7440-22-4	
Thallium, Dissolved	ND	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-28-0	
Vanadium, Dissolved	**0.35J**	ug/L	1.0	1	05/01/13 11:34	05/02/13 15:21	7440-62-2	
Zinc, Dissolved	**6.5J**	ug/L	10.0	1	05/01/13 11:34	05/02/13 15:21	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	04/30/13 11:22	04/30/13 14:18	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/27/13 08:18	04/29/13 14:53	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/23/13 16:10	04/24/13 11:32	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**277**	umhos/cm	10.0	1		04/24/13 16:58		

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ANALYTICAL RESULTS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Sample: DR-1 COMPOSITE_20130418 **Lab ID: 60142948023** Collected: 04/18/13 12:00 Received: 04/19/13 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**177**	mg/L	6.4	1		04/26/13 11:50		
Salinity (as seawater)	**0.13**	PSU	0.014	1		04/26/13 11:50		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**83.6**	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		04/29/13 13:00		
Alkalinity, Total as CaCO3	**83.6**	mg/L	20.0	1		04/29/13 13:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**152**	mg/L	5.0	1		04/25/13 12:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**20.0**	mg/L	5.0	1		04/25/13 12:39		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/24/13 15:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**3.5**	mg/L	1.0	1		05/01/13 04:17	16887-00-6	
Sulfate	**40.0**	mg/L	5.0	5		05/01/13 16:28	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/26/13 12:45		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/24/13 14:50	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.2**	mg/L	1.0	1		05/03/13 11:05	7440-44-0	

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May 20, 2013

Mark DeFriez
Anderson Engineering Company I
977 W 2100 S.
Salt Lake City, UT 84119

RE: Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Dear Mark DeFriez:
Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2013. The results relate only to the within this report conform to the most current version of the TNI standards, BP LaMP Technical Requirements Revision 10.1, and any applicable Quality Assurance Project Plan (QAPP), or Work Plan unless otherwise narrated in the body of this report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather Wilson

heather.wilson@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Montana Certification IDs
602 South 25th Street, Billings, MT 59101
EPA Region 8 Certification #: 8TMS-Q
Idaho Certification #: MT00012
Montana Certification #: MT CERT0040
NVLAP Certification #: 101292-0
Minnesota Dept of Health Certification #: 030-999-442
Washington Department of Ecology #: C993

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60143382001	**MW-1 DEEP_20130424**	Water	04/24/13 14:35	04/26/13 09:35
60143382002	**MW-103_20130424**	Water	04/24/13 15:40	04/26/13 09:35
60143382003	**DR-10_20130424**	Water	04/24/13 15:45	04/26/13 09:35
60143382004	**MW-104_20130424**	Water	04/24/13 16:13	04/26/13 09:35
60143382005	**DR-5_20130424**	Water	04/24/13 16:30	04/26/13 09:35
60143382006	**DR-6_20130425**	Water	04/25/13 09:15	04/26/13 09:35
60143382007	**DR-11_20130425**	Water	04/25/13 09:17	04/26/13 09:35
60143382008	**DR-3_20130425**	Water	04/25/13 10:20	04/26/13 09:35
60143382009	**DR-8_20130425**	Water	04/25/13 10:22	04/26/13 09:35
60143382010	**DR-4_20130425**	Water	04/25/13 10:30	04/26/13 09:35
60143382011	**FB_20130425**	Water	04/25/13 11:15	04/26/13 09:35

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60143382001	**MW-1 DEEP_20130424**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382002	**MW-103_20130424**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382003	**DR-10_20130424**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382004	**MW-104_20130424**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382005	**DR-5_20130424**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382006	**DR-6_20130425**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382007	**DR-11_20130425**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382008	**DR-3_20130425**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382009	**DR-8_20130425**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382010	**DR-4_20130425**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	TEM	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K
60143382011	**FB_20130425**	EPA 200.7	JGP	4	PASI-K
		EPA 200.8	RJS, TT3	25	PASI-M
		EPA 200.8	TT3	23	PASI-M
		EPA 200.8	SMW	19	PASI-K
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	ACH	1	PASI-M
		EPA 245.1	NDJ	1	PASI-K
		SM 2510B	CS1	1	
		Calculated	CS1	2	
		SM 2320B	JMC1	3	PASI-K
		SM 2540C	RAS	1	PASI-K
		SM 2540D	RAS	1	PASI-K
		SM 4500-S-2 D	OL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-CN-E	AJM	1	PASI-K
		SM 5310C	JML	1	PASI-K

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.7**
Description: 200.7 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/22492

B: Analyte was detected in the associated method blank.

- BLANK for HBN 288826 [MPRP/224 (Lab ID: 1178238)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Sodium, Dissolved

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/22492

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60143382001,60143382003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1178240)
  - Calcium, Dissolved
- MS (Lab ID: 1178242)
  - Calcium, Dissolved
- MSD (Lab ID: 1178241)
  - Calcium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/39002

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10226337002,60143382008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1425165)
  - Calcium
  - Magnesium
  - Silver
  - Sodium
- MS (Lab ID: 1425167)
  - Calcium
  - Magnesium
  - Manganese
  - Sodium
  - Zinc
- MSD (Lab ID: 1425166)
  - Calcium
  - Magnesium

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.8**
Description: 200.8 MET ICPMS
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

QC Batch: MPRP/39002

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10226337002,60143382008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Silver
- Sodium

Additional Comments:

Analyte Comments:

QC Batch: MPRP/39002

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1425165)
  - Calcium
  - Magnesium
  - Sodium
- MS (Lab ID: 1425167)
  - Calcium
  - Manganese
  - Zinc
- MSD (Lab ID: 1425166)
  - Calcium
  - Magnesium
  - Sodium

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/38807

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60143382001,60143382011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1419683)
  - Calcium, Dissolved
  - Potassium, Dissolved
  - Sodium, Dissolved
- MSD (Lab ID: 1419684)
  - Calcium, Dissolved
  - Potassium, Dissolved
  - Sodium, Dissolved
  - Zinc, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.8**
Description: 200.8 MET ICPMS, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

Analyte Comments:

QC Batch: MPRP/38807

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1419683)
  - Calcium, Dissolved
  - Zinc, Dissolved
- MSD (Lab ID: 1419684)
  - Calcium, Dissolved
  - Zinc, Dissolved

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 200.8. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.8 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

QC Batch: MPRP/22493

B: Analyte was detected in the associated method blank.

- BLANK for HBN 288828 [MPRP/224 (Lab ID: 1178243)
  - Barium, Dissolved
  - Cadmium, Dissolved
  - Chromium, Dissolved
  - Cobalt, Dissolved
  - Iron, Dissolved
  - Lead, Dissolved
  - Silver, Dissolved
  - Thallium, Dissolved
  - Zinc, Dissolved

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/22493

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60143382002,60143382004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1178245)

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 200.8**
Description: 200.8 Potentially Diss. Metals
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

QC Batch: MPRP/22493

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60143382002,60143382004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Iron, Dissolved
- Manganese, Dissolved
- MSD (Lab ID: 1178246)
  - Manganese, Dissolved

Additional Comments:

Analyte Comments:

QC Batch: MPRP/22493

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DR-10_20130424 (Lab ID: 60143382003)
  - Beryllium, Dissolved
- DR-3_20130425 (Lab ID: 60143382008)
  - Vanadium, Dissolved
- DR-4_20130425 (Lab ID: 60143382010)
  - Vanadium, Dissolved
- DR-5_20130424 (Lab ID: 60143382005)
  - Beryllium, Dissolved
- DR-6_20130425 (Lab ID: 60143382006)
  - Beryllium, Dissolved
- DR-8_20130425 (Lab ID: 60143382009)
  - Vanadium, Dissolved
- MW-1 DEEP_20130424 (Lab ID: 60143382001)
  - Beryllium, Dissolved
- MW-103_20130424 (Lab ID: 60143382002)
  - Beryllium, Dissolved
- MW-104_20130424 (Lab ID: 60143382004)
  - Beryllium, Dissolved

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 245.1**
Description: 245.1 Mercury
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/8340

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10226991003,60143382002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1419690)
  - Mercury

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 245.1**
Description: 245.1 Mercury, Dissolved
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 245.1**
Description: 245.1 Potentially Diss Mercury
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 2510B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **Calculated**
Description: Salinity
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for Calculated. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 2540D**
Description: 2540D Total Suspended Solids
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/41076

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60143326001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1180120)
  - Sulfide, Total

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 pres.
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 4500-CN-E**
Description: 4500CNE Cyanide, Total
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 4500-CN-E. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Method: **SM 5310C**
Description: 5310C TOC
Client: BP Anderson Engineering Company Inc.
Date: May 20, 2013

General Information:
11 samples were analyzed for SM 5310C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-1 DEEP_20130424 **Lab ID: 60143382001** Collected: 04/24/13 14:35 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**251000**	ug/L	100	1	04/29/13 13:45	05/03/13 14:29	7440-70-2	M1
Magnesium, Dissolved	**21500**	ug/L	50.0	1	04/29/13 13:45	05/03/13 14:29	7439-95-4	
Potassium, Dissolved	**9790**	ug/L	500	1	04/29/13 13:45	05/03/13 14:29	7440-09-7	
Sodium, Dissolved	**12400**	ug/L	500	1	04/29/13 13:45	05/03/13 14:29	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**301**	ug/L	4.0	1	05/08/13 16:18	05/11/13 09:14	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-36-0	
Arsenic	**0.99**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-38-2	
Barium	**21.7**	ug/L	0.30	1	05/08/13 16:18	05/11/13 09:14	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/08/13 16:18	05/11/13 09:14	7440-41-7	
Cadmium	**2.7**	ug/L	0.080	1	05/08/13 16:18	05/11/13 09:14	7440-43-9	
Calcium	**282000**	ug/L	400	20	05/08/13 16:18	05/12/13 22:36	7440-70-2	
Chromium	**1.1**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-47-3	
Cobalt	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-48-4	
Copper	**18.9**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-50-8	
Iron	**1500**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:14	7439-89-6	
Lead	**34.3**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:14	7439-92-1	
Magnesium	**21000**	ug/L	5.0	1	05/08/13 16:18	05/11/13 09:14	7439-95-4	
Manganese	**110**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7439-96-5	
Molybdenum	**9.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7439-98-7	
Nickel	**0.92**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-02-0	
Potassium	**10200**	ug/L	20.0	1	05/08/13 16:18	05/11/13 09:14	7440-09-7	
Selenium	**12.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7782-49-2	
Silica	**12800**	ug/L	1070	20	05/08/13 16:18	05/12/13 22:36	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:14	7440-22-4	
Sodium	**13200**	ug/L	50.0	1	05/08/13 16:18	05/12/13 22:30	7440-23-5	
Thallium	**0.13**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:14	7440-28-0	
Total Hardness by 2340B	**790000**	ug/L	1420	20	05/08/13 16:18	05/12/13 22:36		
Vanadium	**0.36**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:14	7440-62-2	
Zinc	**847**	ug/L	100	20	05/08/13 16:18	05/12/13 22:36	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**94.1**	ug/L	4.0	1	05/07/13 14:46	05/14/13 09:56	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-36-0	
Arsenic, Dissolved	**0.53**	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-38-2	
Barium, Dissolved	**18.2**	ug/L	0.30	1	05/07/13 14:46	05/14/13 09:56	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 09:56	7440-41-7	
Cadmium, Dissolved	**2.0**	ug/L	0.080	1	05/07/13 14:46	05/14/13 09:56	7440-43-9	
Calcium, Dissolved	**248000**	ug/L	400	20	05/07/13 14:46	05/14/13 10:09	7440-70-2	M1
Chromium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-48-4	
Copper, Dissolved	**8.6**	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-50-8	
Iron, Dissolved	**537**	ug/L	50.0	1	05/07/13 14:46	05/14/13 09:56	7439-89-6	
Lead, Dissolved	**12.6**	ug/L	0.10	1	05/07/13 14:46	05/14/13 09:56	7439-92-1	
Magnesium, Dissolved	**20400**	ug/L	5.0	1	05/07/13 14:46	05/14/13 09:56	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-1 DEEP_20130424 **Lab ID: 60143382001** Collected: 04/24/13 14:35 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**45.2**	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7439-96-5	
Molybdenum, Dissolved	**9.3**	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7439-98-7	
Nickel, Dissolved	**0.68**	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-02-0	
Potassium, Dissolved	**9430**	ug/L	20.0	1	05/07/13 14:46	05/14/13 09:56	7440-09-7	M1
Selenium, Dissolved	**12.7**	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 09:56	7440-22-4	
Sodium, Dissolved	**12000**	ug/L	50.0	1	05/07/13 14:46	05/14/13 09:56	7440-23-5	M1
Thallium, Dissolved	**0.11**	ug/L	0.10	1	05/07/13 14:46	05/14/13 09:56	7440-28-0	
Vanadium, Dissolved	**0.14**	ug/L	0.10	1	05/07/13 14:46	05/14/13 09:56	7440-62-2	
Zinc, Dissolved	**624**	ug/L	25.0	5	05/07/13 14:46	05/14/13 10:03	7440-66-6	M1
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**178**	ug/L	100	2	04/29/13 13:45	05/15/13 17:00	7429-90-5	
Antimony, Dissolved	**0.15J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-36-0	
Arsenic, Dissolved	**0.96J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-38-2	
Barium, Dissolved	**19.1**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-39-3	
Beryllium, Dissolved	**0.24J**	ug/L	1.0	2	04/29/13 13:45	05/15/13 17:00	7440-41-7	D3
Cadmium, Dissolved	**2.8**	ug/L	0.50	1	04/29/13 13:45	05/10/13 17:54	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-47-3	B
Cobalt, Dissolved	**0.28J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-48-4	B
Copper, Dissolved	**18.3**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-50-8	
Iron, Dissolved	**1220**	ug/L	50.0	1	04/29/13 13:45	05/10/13 17:54	7439-89-6	
Lead, Dissolved	**33.6**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7439-92-1	
Manganese, Dissolved	**90.3**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7439-96-5	
Molybdenum, Dissolved	**9.0**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-02-0	
Selenium, Dissolved	**11.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7782-49-2	
Silver, Dissolved	**0.21J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 17:54	7440-22-4	B
Thallium, Dissolved	**0.33J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:54	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 13:43	7440-62-2	
Zinc, Dissolved	**787**	ug/L	10.0	1	04/29/13 13:45	05/10/13 17:54	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 10:39	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 09:47	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:05	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1410**	umhos/cm	10.0	1		05/02/13 14:28		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**900**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-1 DEEP_20130424 **Lab ID: 60143382001** Collected: 04/24/13 14:35 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.70**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**91.2**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**91.2**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**942**	mg/L	5.0	1		04/30/13 08:44		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**16.0**	mg/L	5.0	1		04/30/13 08:21		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/30/13 14:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 09:45	16887-00-6	
Sulfate	**711**	mg/L	50.0	50		05/08/13 10:38	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:26		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 14:45	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 18:31	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-103_20130424 **Lab ID: 60143382002** Collected: 04/24/13 15:40 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**304000**	ug/L	100	1	04/29/13 13:45	05/03/13 14:38	7440-70-2	
Magnesium, Dissolved	**31200**	ug/L	50.0	1	04/29/13 13:45	05/03/13 14:38	7439-95-4	
Potassium, Dissolved	**4030**	ug/L	500	1	04/29/13 13:45	05/03/13 14:38	7440-09-7	
Sodium, Dissolved	**14800**	ug/L	500	1	04/29/13 13:45	05/03/13 14:38	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**864**	ug/L	4.0	1	05/08/13 16:18	05/11/13 09:26	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-36-0	
Arsenic	**5.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-38-2	
Barium	**37.5**	ug/L	0.30	1	05/08/13 16:18	05/11/13 09:26	7440-39-3	
Beryllium	**0.47**	ug/L	0.20	1	05/08/13 16:18	05/11/13 09:26	7440-41-7	
Cadmium	**0.54**	ug/L	0.080	1	05/08/13 16:18	05/11/13 09:26	7440-43-9	
Calcium	**342000**	ug/L	400	20	05/08/13 16:18	05/12/13 22:41	7440-70-2	
Chromium	**0.97**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-47-3	
Cobalt	**3.1**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-48-4	
Copper	**3.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-50-8	
Iron	**9330**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:26	7439-89-6	
Lead	**3.2**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:26	7439-92-1	
Magnesium	**34000**	ug/L	100	20	05/08/13 16:18	05/12/13 22:41	7439-95-4	
Manganese	**8660**	ug/L	10.0	20	05/08/13 16:18	05/12/13 22:41	7439-96-5	
Molybdenum	**7.5**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7439-98-7	
Nickel	**2.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-02-0	
Potassium	**4130**	ug/L	20.0	1	05/08/13 16:18	05/11/13 09:26	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7782-49-2	
Silica	**27700**	ug/L	1070	20	05/08/13 16:18	05/12/13 22:41	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:26	7440-22-4	
Sodium	**16500**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:26	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:26	7440-28-0	
Total Hardness by 2340B	**994000**	ug/L	1420	20	05/08/13 16:18	05/12/13 22:41		
Vanadium	**1.4**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:26	7440-62-2	
Zinc	**146**	ug/L	5.0	1	05/08/13 16:18	05/11/13 09:26	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**44.4**	ug/L	4.0	1	05/07/13 14:46	05/14/13 10:15	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-36-0	
Arsenic, Dissolved	**2.9**	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-38-2	
Barium, Dissolved	**28.8**	ug/L	0.30	1	05/07/13 14:46	05/14/13 10:15	7440-39-3	
Beryllium, Dissolved	**0.36**	ug/L	0.20	1	05/07/13 14:46	05/14/13 10:15	7440-41-7	
Cadmium, Dissolved	**0.17**	ug/L	0.080	1	05/07/13 14:46	05/14/13 10:15	7440-43-9	
Calcium, Dissolved	**316000**	ug/L	400	20	05/07/13 14:46	05/14/13 10:21	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-47-3	
Cobalt, Dissolved	**5.2**	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-48-4	
Copper, Dissolved	**0.84**	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-50-8	
Iron, Dissolved	**7090**	ug/L	50.0	1	05/07/13 14:46	05/14/13 10:15	7439-89-6	
Lead, Dissolved	**0.21**	ug/L	0.10	1	05/07/13 14:46	05/14/13 10:15	7439-92-1	
Magnesium, Dissolved	**32700**	ug/L	100	20	05/07/13 14:46	05/14/13 10:21	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-103_20130424 **Lab ID: 60143382002** Collected: 04/24/13 15:40 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8640**	ug/L	10.0	20	05/07/13 14:46	05/14/13 10:21	7439-96-5	
Molybdenum, Dissolved	**7.5**	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-02-0	
Potassium, Dissolved	**4020**	ug/L	20.0	1	05/07/13 14:46	05/14/13 10:15	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 10:15	7440-22-4	
Sodium, Dissolved	**15000**	ug/L	50.0	1	05/07/13 14:46	05/14/13 10:15	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 10:15	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 10:15	7440-62-2	
Zinc, Dissolved	**121**	ug/L	5.0	1	05/07/13 14:46	05/14/13 10:15	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**200**	ug/L	100	2	04/29/13 13:45	05/15/13 17:04	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-36-0	
Arsenic, Dissolved	**3.3**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-38-2	
Barium, Dissolved	**28.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-39-3	
Beryllium, Dissolved	**0.48J**	ug/L	1.0	2	04/29/13 13:45	05/15/13 17:04	7440-41-7	D3
Cadmium, Dissolved	**0.58**	ug/L	0.50	1	04/29/13 13:45	05/10/13 17:58	7440-43-9	B
Chromium, Dissolved	**0.77J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-47-3	B
Cobalt, Dissolved	**3.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-48-4	
Copper, Dissolved	**1.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-50-8	
Iron, Dissolved	**7360**	ug/L	50.0	1	04/29/13 13:45	05/10/13 17:58	7439-89-6	M1
Lead, Dissolved	**2.7**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7439-92-1	B
Manganese, Dissolved	**7620**	ug/L	2.0	2	04/29/13 13:45	05/15/13 17:04	7439-96-5	M1
Molybdenum, Dissolved	**6.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7439-98-7	
Nickel, Dissolved	**0.57J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7782-49-2	
Silver, Dissolved	**0.10J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 17:58	7440-22-4	B
Thallium, Dissolved	**0.28J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 17:58	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 13:51	7440-62-2	
Zinc, Dissolved	**131**	ug/L	10.0	1	04/29/13 13:45	05/10/13 17:58	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 10:41	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 09:49	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:07	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1550**	umhos/cm	10.0	1		05/02/13 14:29		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**994**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-103_20130424 **Lab ID: 60143382002** Collected: 04/24/13 15:40 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.78**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**315**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**315**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1160**	mg/L	5.0	1		04/30/13 08:45		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**50.7**	mg/L	5.0	1		04/30/13 08:21		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/30/13 14:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.2**	mg/L	1.0	1		05/08/13 12:07	16887-00-6	
Sulfate	**652**	mg/L	50.0	50		05/08/13 12:24	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:27		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0062**	mg/L	0.0050	1		04/29/13 14:48	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.3**	mg/L	1.0	1		05/09/13 18:47	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-10_20130424 **Lab ID: 60143382003** Collected: 04/24/13 15:45 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**298000**	ug/L	100	1	04/29/13 13:45	05/03/13 14:40	7440-70-2	M1
Magnesium, Dissolved	**30700**	ug/L	50.0	1	04/29/13 13:45	05/03/13 14:40	7439-95-4	
Potassium, Dissolved	**3960**	ug/L	500	1	04/29/13 13:45	05/03/13 14:40	7440-09-7	
Sodium, Dissolved	**14500**	ug/L	500	1	04/29/13 13:45	05/03/13 14:40	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**523**	ug/L	4.0	1	05/08/13 16:18	05/11/13 09:39	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-36-0	
Arsenic	**4.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-38-2	
Barium	**34.9**	ug/L	0.30	1	05/08/13 16:18	05/11/13 09:39	7440-39-3	
Beryllium	**0.38**	ug/L	0.20	1	05/08/13 16:18	05/11/13 09:39	7440-41-7	
Cadmium	**0.36**	ug/L	0.080	1	05/08/13 16:18	05/11/13 09:39	7440-43-9	
Calcium	**351000**	ug/L	400	20	05/08/13 16:18	05/12/13 22:47	7440-70-2	
Chromium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-47-3	
Cobalt	**3.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-48-4	
Copper	**2.1**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-50-8	
Iron	**8330**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:39	7439-89-6	
Lead	**1.9**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:39	7439-92-1	
Magnesium	**34400**	ug/L	100	20	05/08/13 16:18	05/12/13 22:47	7439-95-4	
Manganese	**8890**	ug/L	10.0	20	05/08/13 16:18	05/12/13 22:47	7439-96-5	
Molybdenum	**7.5**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7439-98-7	
Nickel	**2.0**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-02-0	
Potassium	**4030**	ug/L	20.0	1	05/08/13 16:18	05/11/13 09:39	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7782-49-2	
Silica	**27100**	ug/L	1070	20	05/08/13 16:18	05/12/13 22:47	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:39	7440-22-4	
Sodium	**16500**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:39	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:39	7440-28-0	
Total Hardness by 2340B	**1020000**	ug/L	1420	20	05/08/13 16:18	05/12/13 22:47		
Vanadium	**0.82**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:39	7440-62-2	
Zinc	**136**	ug/L	5.0	1	05/08/13 16:18	05/11/13 09:39	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**20.9**	ug/L	4.0	1	05/07/13 14:46	05/14/13 11:06	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-36-0	
Arsenic, Dissolved	**2.8**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-38-2	
Barium, Dissolved	**28.4**	ug/L	0.30	1	05/07/13 14:46	05/14/13 11:06	7440-39-3	
Beryllium, Dissolved	**0.34**	ug/L	0.20	1	05/07/13 14:46	05/14/13 11:06	7440-41-7	
Cadmium, Dissolved	**0.14**	ug/L	0.080	1	05/07/13 14:46	05/14/13 11:06	7440-43-9	
Calcium, Dissolved	**316000**	ug/L	400	20	05/07/13 14:46	05/14/13 11:13	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-47-3	
Cobalt, Dissolved	**7.5**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-48-4	
Copper, Dissolved	**1.0**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-50-8	
Iron, Dissolved	**6930**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:06	7439-89-6	
Lead, Dissolved	**0.11**	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:06	7439-92-1	
Magnesium, Dissolved	**33700**	ug/L	100	20	05/07/13 14:46	05/14/13 11:13	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-10_20130424 **Lab ID: 60143382003** Collected: 04/24/13 15:45 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**8660**	ug/L	10.0	20	05/07/13 14:46	05/14/13 11:13	7439-96-5	
Molybdenum, Dissolved	**7.6**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7439-98-7	
Nickel, Dissolved	**4.9**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-02-0	
Potassium, Dissolved	**3980**	ug/L	20.0	1	05/07/13 14:46	05/14/13 11:06	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:06	7440-22-4	
Sodium, Dissolved	**14500**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:06	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:06	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:06	7440-62-2	
Zinc, Dissolved	**124**	ug/L	5.0	1	05/07/13 14:46	05/14/13 11:06	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**121**	ug/L	100	2	04/29/13 13:45	05/15/13 17:08	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-36-0	
Arsenic, Dissolved	**2.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-38-2	
Barium, Dissolved	**28.1**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-39-3	
Beryllium, Dissolved	**0.47J**	ug/L	1.0	2	04/29/13 13:45	05/15/13 17:08	7440-41-7	D3
Cadmium, Dissolved	**0.47J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:15	7440-43-9	B
Chromium, Dissolved	**1.3**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-47-3	B
Cobalt, Dissolved	**3.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-50-8	
Iron, Dissolved	**7190**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:15	7439-89-6	
Lead, Dissolved	**1.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7439-92-1	B
Manganese, Dissolved	**7690**	ug/L	2.0	2	04/29/13 13:45	05/15/13 17:08	7439-96-5	
Molybdenum, Dissolved	**7.1**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7439-98-7	
Nickel, Dissolved	**0.96J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7782-49-2	
Silver, Dissolved	**0.12J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:15	7440-22-4	B
Thallium, Dissolved	**0.28J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:15	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 13:55	7440-62-2	
Zinc, Dissolved	**134**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:15	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 10:52	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 09:56	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:10	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1620**	umhos/cm	10.0	1		05/02/13 15:19		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**1040**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-10_20130424 **Lab ID: 60143382003** Collected: 04/24/13 15:45 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.81**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**321**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**321**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1150**	mg/L	5.0	1		04/30/13 08:45		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**22.7**	mg/L	5.0	1		04/30/13 08:22		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/30/13 14:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	**1.3**	mg/L	1.0	1		05/08/13 12:42	16887-00-6	
Sulfate	**649**	mg/L	50.0	50		05/08/13 13:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:29		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0065**	mg/L	0.0050	1		04/29/13 14:49	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.4**	mg/L	1.0	1		05/09/13 19:03	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-104_20130424 **Lab ID: 60143382004** Collected: 04/24/13 16:13 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**272000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:30	7440-70-2	
Magnesium, Dissolved	**24400**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:30	7439-95-4	
Potassium, Dissolved	**8240**	ug/L	500	1	04/29/13 13:45	05/03/13 15:30	7440-09-7	
Sodium, Dissolved	**13800**	ug/L	500	1	04/29/13 13:45	05/03/13 15:30	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1040**	ug/L	4.0	1	05/08/13 16:18	05/11/13 09:51	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-36-0	
Arsenic	**1.2**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-38-2	
Barium	**35.9**	ug/L	0.30	1	05/08/13 16:18	05/11/13 09:51	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/08/13 16:18	05/11/13 09:51	7440-41-7	
Cadmium	**2.7**	ug/L	0.080	1	05/08/13 16:18	05/11/13 09:51	7440-43-9	
Calcium	**311000**	ug/L	400	20	05/08/13 16:18	05/12/13 22:53	7440-70-2	
Chromium	**1.9**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-47-3	
Cobalt	**0.79**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-48-4	
Copper	**5.9**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-50-8	
Iron	**1710**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:51	7439-89-6	
Lead	**8.9**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:51	7439-92-1	
Magnesium	**27400**	ug/L	100	20	05/08/13 16:18	05/12/13 22:53	7439-95-4	
Manganese	**367**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7439-96-5	
Molybdenum	**10.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7439-98-7	
Nickel	**1.7**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-02-0	
Potassium	**8830**	ug/L	20.0	1	05/08/13 16:18	05/11/13 09:51	7440-09-7	
Selenium	**1.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7782-49-2	
Silica	**20500**	ug/L	1070	20	05/08/13 16:18	05/12/13 22:53	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 09:51	7440-22-4	
Sodium	**16800**	ug/L	50.0	1	05/08/13 16:18	05/11/13 09:51	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:51	7440-28-0	
Total Hardness by 2340B	**890000**	ug/L	1420	20	05/08/13 16:18	05/12/13 22:53		
Vanadium	**2.0**	ug/L	0.10	1	05/08/13 16:18	05/11/13 09:51	7440-62-2	
Zinc	**978**	ug/L	100	20	05/08/13 16:18	05/12/13 22:53	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**17.8**	ug/L	4.0	1	05/07/13 14:46	05/14/13 11:19	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-38-2	
Barium, Dissolved	**15.4**	ug/L	0.30	1	05/07/13 14:46	05/14/13 11:19	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 11:19	7440-41-7	
Cadmium, Dissolved	**2.2**	ug/L	0.080	1	05/07/13 14:46	05/14/13 11:19	7440-43-9	
Calcium, Dissolved	**262000**	ug/L	400	20	05/07/13 14:46	05/14/13 11:25	7440-70-2	
Chromium, Dissolved	**0.67**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-48-4	
Copper, Dissolved	**1.5**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:19	7439-89-6	
Lead, Dissolved	**0.30**	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:19	7439-92-1	
Magnesium, Dissolved	**24000**	ug/L	100	20	05/07/13 14:46	05/14/13 11:25	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-104_20130424 **Lab ID: 60143382004** Collected: 04/24/13 16:13 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**30.8**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7439-96-5	
Molybdenum, Dissolved	**8.7**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7439-98-7	
Nickel, Dissolved	**4.0**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-02-0	
Potassium, Dissolved	**8170**	ug/L	20.0	1	05/07/13 14:46	05/14/13 11:19	7440-09-7	
Selenium, Dissolved	**1.5**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:19	7440-22-4	
Sodium, Dissolved	**13700**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:19	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:19	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:19	7440-62-2	
Zinc, Dissolved	**793**	ug/L	100	20	05/07/13 14:46	05/14/13 11:25	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**317**	ug/L	100	2	04/29/13 13:45	05/15/13 17:12	7429-90-5	
Antimony, Dissolved	**0.072J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-36-0	
Arsenic, Dissolved	**0.39J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-38-2	
Barium, Dissolved	**24.0**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-39-3	
Beryllium, Dissolved	**0.16J**	ug/L	1.0	2	04/29/13 13:45	05/15/13 17:12	7440-41-7	D3
Cadmium, Dissolved	**2.8**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:19	7440-43-9	
Chromium, Dissolved	**1.6**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-47-3	B
Cobalt, Dissolved	**0.45J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-48-4	B
Copper, Dissolved	**4.6**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-50-8	
Iron, Dissolved	**743**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:19	7439-89-6	
Lead, Dissolved	**7.2**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7439-92-1	
Manganese, Dissolved	**208**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7439-96-5	
Molybdenum, Dissolved	**5.6**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7439-98-7	
Nickel, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-02-0	
Selenium, Dissolved	**1.1**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7782-49-2	
Silver, Dissolved	**0.18J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:19	7440-22-4	B
Thallium, Dissolved	**0.21J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:19	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 13:59	7440-62-2	
Zinc, Dissolved	**852**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:19	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 10:54	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:02	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:12	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1370**	umhos/cm	10.0	1		05/02/13 15:20		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**875**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: MW-104_20130424 **Lab ID: 60143382004** Collected: 04/24/13 16:13 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.68**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**127**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**127**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1030**	mg/L	5.0	1		04/30/13 08:45		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**57.3**	mg/L	5.0	1		04/30/13 08:22		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/30/13 14:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 13:18	16887-00-6	
Sulfate	**708**	mg/L	50.0	50		05/08/13 13:35	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:30		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0052**	mg/L	0.0050	1		04/29/13 14:52	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.2**	mg/L	1.0	1		05/09/13 19:11	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-5_20130424 **Lab ID: 60143382005** Collected: 04/24/13 16:30 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**263000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:32	7440-70-2	
Magnesium, Dissolved	**21100**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:32	7439-95-4	
Potassium, Dissolved	**5360**	ug/L	500	1	04/29/13 13:45	05/03/13 15:32	7440-09-7	
Sodium, Dissolved	**11700**	ug/L	500	1	04/29/13 13:45	05/03/13 15:32	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**68.3**	ug/L	4.0	1	05/08/13 16:18	05/11/13 10:23	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-36-0	
Arsenic	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-38-2	
Barium	**21.0**	ug/L	0.30	1	05/08/13 16:18	05/11/13 10:23	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/08/13 16:18	05/11/13 10:23	7440-41-7	
Cadmium	**8.1**	ug/L	0.080	1	05/08/13 16:18	05/11/13 10:23	7440-43-9	
Calcium	**303000**	ug/L	400	20	05/08/13 16:18	05/12/13 22:58	7440-70-2	
Chromium	**0.54**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-47-3	
Cobalt	**1.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-48-4	
Copper	**11.4**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-50-8	
Iron	**967**	ug/L	50.0	1	05/08/13 16:18	05/11/13 10:23	7439-89-6	
Lead	**1.8**	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:23	7439-92-1	
Magnesium	**20600**	ug/L	5.0	1	05/08/13 16:18	05/11/13 10:23	7439-95-4	
Manganese	**1650**	ug/L	10.0	20	05/08/13 16:18	05/12/13 22:58	7439-96-5	
Molybdenum	**13.8**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7439-98-7	
Nickel	**3.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-02-0	
Potassium	**5490**	ug/L	20.0	1	05/08/13 16:18	05/11/13 10:23	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7782-49-2	
Silica	**16600**	ug/L	1070	20	05/08/13 16:18	05/12/13 22:58	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:23	7440-22-4	
Sodium	**14200**	ug/L	50.0	1	05/08/13 16:18	05/11/13 10:23	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:23	7440-28-0	
Total Hardness by 2340B	**840000**	ug/L	1420	20	05/08/13 16:18	05/12/13 22:58		
Vanadium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:23	7440-62-2	
Zinc	**2090**	ug/L	100	20	05/08/13 16:18	05/12/13 22:58	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.6**	ug/L	4.0	1	05/07/13 14:46	05/14/13 11:31	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-38-2	
Barium, Dissolved	**20.2**	ug/L	0.30	1	05/07/13 14:46	05/14/13 11:31	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 11:31	7440-41-7	
Cadmium, Dissolved	**0.47**	ug/L	0.080	1	05/07/13 14:46	05/14/13 11:31	7440-43-9	
Calcium, Dissolved	**270000**	ug/L	400	20	05/07/13 14:46	05/14/13 11:37	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-47-3	
Cobalt, Dissolved	**2.1**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-48-4	
Copper, Dissolved	**0.76**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:31	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:31	7439-92-1	
Magnesium, Dissolved	**20900**	ug/L	5.0	1	05/07/13 14:46	05/14/13 11:31	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-5_20130424 **Lab ID: 60143382005** Collected: 04/24/13 16:30 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1590**	ug/L	10.0	20	05/07/13 14:46	05/14/13 11:37	7439-96-5	
Molybdenum, Dissolved	**14.1**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7439-98-7	
Nickel, Dissolved	**3.6**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-02-0	
Potassium, Dissolved	**5660**	ug/L	20.0	1	05/07/13 14:46	05/14/13 11:31	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:31	7440-22-4	
Sodium, Dissolved	**12500**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:31	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:31	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:31	7440-62-2	
Zinc, Dissolved	**1640**	ug/L	100	20	05/07/13 14:46	05/14/13 11:37	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**56.6J**	ug/L	100	2	04/29/13 13:45	05/15/13 17:16	7429-90-5	
Antimony, Dissolved	**0.16J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-38-2	
Barium, Dissolved	**19.2**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-39-3	
Beryllium, Dissolved	**0.24J**	ug/L	1.0	2	04/29/13 13:45	05/15/13 17:16	7440-41-7	D3
Cadmium, Dissolved	**7.7**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:36	7440-43-9	
Chromium, Dissolved	**0.27J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-47-3	B
Cobalt, Dissolved	**1.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-48-4	
Copper, Dissolved	**10.7**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-50-8	
Iron, Dissolved	**871**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:36	7439-89-6	
Lead, Dissolved	**1.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7439-92-1	B
Manganese, Dissolved	**1470**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7439-96-5	
Molybdenum, Dissolved	**14.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7439-98-7	
Nickel, Dissolved	**1.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7782-49-2	
Silver, Dissolved	**0.10J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:36	7440-22-4	B
Thallium, Dissolved	**0.27J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:36	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 14:14	7440-62-2	
Zinc, Dissolved	**1840**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:36	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 10:56	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:04	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:14	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1380**	umhos/cm	10.0	1		05/02/13 15:21		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**885**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-5_20130424 **Lab ID: 60143382005** Collected: 04/24/13 16:30 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.69**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**104**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1060**	mg/L	5.0	1		04/30/13 08:46		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**5.3**	mg/L	5.0	1		04/30/13 08:22		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		04/30/13 14:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 13:53	16887-00-6	
Sulfate	**700**	mg/L	50.0	50		05/08/13 14:11	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:31		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 14:53	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 19:19	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-6_20130425 **Lab ID: 60143382006** Collected: 04/25/13 09:15 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**284000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:34	7440-70-2	
Magnesium, Dissolved	**24600**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:34	7439-95-4	
Potassium, Dissolved	**6310**	ug/L	500	1	04/29/13 13:45	05/03/13 15:34	7440-09-7	
Sodium, Dissolved	**14400**	ug/L	500	1	04/29/13 13:45	05/03/13 15:34	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**27.2**	ug/L	4.0	1	05/08/13 16:18	05/11/13 10:35	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-36-0	
Arsenic	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-38-2	
Barium	**21.8**	ug/L	0.30	1	05/08/13 16:18	05/11/13 10:35	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/08/13 16:18	05/11/13 10:35	7440-41-7	
Cadmium	**5.3**	ug/L	0.080	1	05/08/13 16:18	05/11/13 10:35	7440-43-9	
Calcium	**316000**	ug/L	400	20	05/08/13 16:18	05/12/13 23:04	7440-70-2	
Chromium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-47-3	
Cobalt	**1.7**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-48-4	
Copper	**3.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-50-8	
Iron	**503**	ug/L	50.0	1	05/08/13 16:18	05/11/13 10:35	7439-89-6	
Lead	**0.87**	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:35	7439-92-1	
Magnesium	**27100**	ug/L	100	20	05/08/13 16:18	05/12/13 23:04	7439-95-4	
Manganese	**1540**	ug/L	10.0	20	05/08/13 16:18	05/12/13 23:04	7439-96-5	
Molybdenum	**12.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7439-98-7	
Nickel	**3.0**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-02-0	
Potassium	**6310**	ug/L	20.0	1	05/08/13 16:18	05/11/13 10:35	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7782-49-2	
Silica	**20300**	ug/L	1070	20	05/08/13 16:18	05/12/13 23:04	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:35	7440-22-4	
Sodium	**17200**	ug/L	50.0	1	05/08/13 16:18	05/11/13 10:35	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:35	7440-28-0	
Total Hardness by 2340B	**900000**	ug/L	1420	20	05/08/13 16:18	05/12/13 23:04		
Vanadium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:35	7440-62-2	
Zinc	**1840**	ug/L	100	20	05/08/13 16:18	05/12/13 23:04	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.5**	ug/L	4.0	1	05/07/13 14:46	05/14/13 11:44	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-38-2	
Barium, Dissolved	**20.1**	ug/L	0.30	1	05/07/13 14:46	05/14/13 11:44	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 11:44	7440-41-7	
Cadmium, Dissolved	**3.2**	ug/L	0.080	1	05/07/13 14:46	05/14/13 11:44	7440-43-9	
Calcium, Dissolved	**284000**	ug/L	400	20	05/07/13 14:46	05/14/13 11:50	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-47-3	
Cobalt, Dissolved	**1.7**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-48-4	
Copper, Dissolved	**0.96**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-50-8	
Iron, Dissolved	**132**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:44	7439-89-6	
Lead, Dissolved	**0.14**	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:44	7439-92-1	
Magnesium, Dissolved	**26000**	ug/L	100	20	05/07/13 14:46	05/14/13 11:50	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-6_20130425 **Lab ID: 60143382006** Collected: 04/25/13 09:15 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1480**	ug/L	10.0	20	05/07/13 14:46	05/14/13 11:50	7439-96-5	
Molybdenum, Dissolved	**12.5**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7439-98-7	
Nickel, Dissolved	**3.2**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-02-0	
Potassium, Dissolved	**6340**	ug/L	20.0	1	05/07/13 14:46	05/14/13 11:44	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:44	7440-22-4	
Sodium, Dissolved	**15400**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:44	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:44	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:44	7440-62-2	
Zinc, Dissolved	**1710**	ug/L	100	20	05/07/13 14:46	05/14/13 11:50	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**21.5J**	ug/L	100	2	04/29/13 13:45	05/15/13 17:30	7429-90-5	
Antimony, Dissolved	**0.14J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-38-2	
Barium, Dissolved	**20.1**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-39-3	
Beryllium, Dissolved	**0.20J**	ug/L	1.0	2	04/29/13 13:45	05/15/13 17:30	7440-41-7	D3
Cadmium, Dissolved	**5.1**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:40	7440-43-9	
Chromium, Dissolved	**0.44J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-47-3	B
Cobalt, Dissolved	**1.6**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-48-4	
Copper, Dissolved	**3.0**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-50-8	
Iron, Dissolved	**485**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:40	7439-89-6	
Lead, Dissolved	**0.98J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7439-92-1	B
Manganese, Dissolved	**1400**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7439-96-5	
Molybdenum, Dissolved	**12.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7782-49-2	
Silver, Dissolved	**0.097J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:40	7440-22-4	B
Thallium, Dissolved	**0.26J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:40	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 14:18	7440-62-2	
Zinc, Dissolved	**1680**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 10:58	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:06	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:24	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1430**	umhos/cm	10.0	1		05/02/13 15:22		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**917**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-6_20130425 **Lab ID: 60143382006** Collected: 04/25/13 09:15 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.72**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**144**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1150**	mg/L	5.0	1		05/01/13 09:45		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/01/13 10:24		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/02/13 14:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 15:17	16887-00-6	
Sulfate	**721**	mg/L	50.0	50		05/09/13 13:56	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:32		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 14:53	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 19:40	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-11_20130425 **Lab ID: 60143382007** Collected: 04/25/13 09:17 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**281000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:37	7440-70-2	
Magnesium, Dissolved	**24500**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:37	7439-95-4	
Potassium, Dissolved	**6170**	ug/L	500	1	04/29/13 13:45	05/03/13 15:37	7440-09-7	
Sodium, Dissolved	**14200**	ug/L	500	1	04/29/13 13:45	05/03/13 15:37	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**27.1**	ug/L	4.0	1	05/08/13 16:18	05/11/13 10:48	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-36-0	
Arsenic	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-38-2	
Barium	**22.4**	ug/L	0.30	1	05/08/13 16:18	05/11/13 10:48	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/08/13 16:18	05/11/13 10:48	7440-41-7	
Cadmium	**5.1**	ug/L	0.080	1	05/08/13 16:18	05/11/13 10:48	7440-43-9	
Calcium	**326000**	ug/L	400	20	05/08/13 16:18	05/12/13 23:27	7440-70-2	
Chromium	**1.1**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-47-3	
Cobalt	**1.7**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-48-4	
Copper	**3.2**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-50-8	
Iron	**516**	ug/L	50.0	1	05/08/13 16:18	05/11/13 10:48	7439-89-6	
Lead	**0.89**	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:48	7439-92-1	
Magnesium	**27400**	ug/L	100	20	05/08/13 16:18	05/12/13 23:27	7439-95-4	
Manganese	**1570**	ug/L	10.0	20	05/08/13 16:18	05/12/13 23:27	7439-96-5	
Molybdenum	**12.4**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7439-98-7	
Nickel	**3.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-02-0	
Potassium	**6480**	ug/L	20.0	1	05/08/13 16:18	05/11/13 10:48	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7782-49-2	
Silica	**21100**	ug/L	1070	20	05/08/13 16:18	05/12/13 23:27	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 10:48	7440-22-4	
Sodium	**17600**	ug/L	50.0	1	05/08/13 16:18	05/11/13 10:48	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:48	7440-28-0	
Total Hardness by 2340B	**927000**	ug/L	1420	20	05/08/13 16:18	05/12/13 23:27		
Vanadium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 10:48	7440-62-2	
Zinc	**1920**	ug/L	100	20	05/08/13 16:18	05/12/13 23:27	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**5.9**	ug/L	4.0	1	05/07/13 14:46	05/14/13 11:56	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-38-2	
Barium, Dissolved	**20.2**	ug/L	0.30	1	05/07/13 14:46	05/14/13 11:56	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 11:56	7440-41-7	
Cadmium, Dissolved	**3.0**	ug/L	0.080	1	05/07/13 14:46	05/14/13 11:56	7440-43-9	
Calcium, Dissolved	**278000**	ug/L	400	20	05/07/13 14:46	05/14/13 12:02	7440-70-2	
Chromium, Dissolved	**0.73**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-47-3	
Cobalt, Dissolved	**1.8**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-48-4	
Copper, Dissolved	**1.4**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-50-8	
Iron, Dissolved	**96.4**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:56	7439-89-6	
Lead, Dissolved	**0.12**	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:56	7439-92-1	
Magnesium, Dissolved	**25100**	ug/L	100	20	05/07/13 14:46	05/14/13 12:02	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-11_20130425 **Lab ID: 60143382007** Collected: 04/25/13 09:17 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1460**	ug/L	10.0	20	05/07/13 14:46	05/14/13 12:02	7439-96-5	
Molybdenum, Dissolved	**12.3**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7439-98-7	
Nickel, Dissolved	**6.1**	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-02-0	
Potassium, Dissolved	**6330**	ug/L	20.0	1	05/07/13 14:46	05/14/13 11:56	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 11:56	7440-22-4	
Sodium, Dissolved	**15200**	ug/L	50.0	1	05/07/13 14:46	05/14/13 11:56	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:56	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 11:56	7440-62-2	
Zinc, Dissolved	**1670**	ug/L	100	20	05/07/13 14:46	05/14/13 12:02	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**6.1J**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:44	7429-90-5	
Antimony, Dissolved	**0.14J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-38-2	
Barium, Dissolved	**19.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:44	7440-41-7	
Cadmium, Dissolved	**4.9**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:44	7440-43-9	
Chromium, Dissolved	**0.44J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-47-3	B
Cobalt, Dissolved	**1.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-48-4	
Copper, Dissolved	**2.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-50-8	
Iron, Dissolved	**458**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:44	7439-89-6	
Lead, Dissolved	**0.88J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7439-92-1	B
Manganese, Dissolved	**1350**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7439-96-5	
Molybdenum, Dissolved	**12.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7782-49-2	
Silver, Dissolved	**0.097J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:44	7440-22-4	B
Thallium, Dissolved	**0.26J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:44	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 14:22	7440-62-2	
Zinc, Dissolved	**1620**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:44	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 11:00	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:09	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:29	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1450**	umhos/cm	10.0	1		05/02/13 15:23		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**927**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-11_20130425 **Lab ID: 60143382007** Collected: 04/25/13 09:17 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.72**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**146**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**146**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1110**	mg/L	5.0	1		05/01/13 09:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/01/13 10:24		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/02/13 14:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 15:52	16887-00-6	
Sulfate	**730**	mg/L	50.0	50		05/09/13 14:14	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:33		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 14:56	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 19:47	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-3_20130425 **Lab ID: 60143382008** Collected: 04/25/13 10:20 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**263000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:39	7440-70-2	
Magnesium, Dissolved	**20200**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:39	7439-95-4	
Potassium, Dissolved	**5410**	ug/L	500	1	04/29/13 13:45	05/03/13 15:39	7440-09-7	
Sodium, Dissolved	**11900**	ug/L	500	1	04/29/13 13:45	05/03/13 15:39	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1020**	ug/L	4.0	1	05/08/13 16:18	05/11/13 11:00	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-36-0	
Arsenic	**2.4**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-38-2	
Barium	**22.7**	ug/L	0.30	1	05/08/13 16:18	05/11/13 11:00	7440-39-3	
Beryllium	**1.1**	ug/L	0.20	1	05/08/13 16:18	05/11/13 11:00	7440-41-7	
Cadmium	**19.0**	ug/L	0.080	1	05/08/13 16:18	05/11/13 11:00	7440-43-9	
Calcium	**293000**	ug/L	400	20	05/08/13 16:18	05/12/13 23:32	7440-70-2	M1
Chromium	**0.57**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-47-3	
Cobalt	**3.2**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-48-4	
Copper	**170**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-50-8	
Iron	**12400**	ug/L	50.0	1	05/08/13 16:18	05/11/13 11:00	7439-89-6	
Lead	**25.0**	ug/L	0.10	1	05/08/13 16:18	05/11/13 11:00	7439-92-1	
Magnesium	**19600**	ug/L	5.0	1	05/08/13 16:18	05/11/13 11:00	7439-95-4	M1
Manganese	**1890**	ug/L	10.0	20	05/08/13 16:18	05/12/13 23:32	7439-96-5	M1
Molybdenum	**17.4**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7439-98-7	
Nickel	**4.0**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-02-0	
Potassium	**5420**	ug/L	20.0	1	05/08/13 16:18	05/11/13 11:00	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7782-49-2	
Silica	**20500**	ug/L	1070	20	05/08/13 16:18	05/12/13 23:32	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:00	7440-22-4	
Sodium	**14000**	ug/L	50.0	1	05/08/13 16:18	05/11/13 11:00	7440-23-5	M1
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 11:00	7440-28-0	
Total Hardness by 2340B	**811000**	ug/L	1420	20	05/08/13 16:18	05/12/13 23:32		
Vanadium	**0.21**	ug/L	0.10	1	05/08/13 16:18	05/11/13 11:00	7440-62-2	
Zinc	**4050**	ug/L	100	20	05/08/13 16:18	05/12/13 23:32	7440-66-6	M1
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**51.2**	ug/L	4.0	1	05/07/13 14:46	05/14/13 12:28	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-38-2	
Barium, Dissolved	**20.2**	ug/L	0.30	1	05/07/13 14:46	05/14/13 12:28	7440-39-3	
Beryllium, Dissolved	**0.33**	ug/L	0.20	1	05/07/13 14:46	05/14/13 12:28	7440-41-7	
Cadmium, Dissolved	**15.4**	ug/L	0.080	1	05/07/13 14:46	05/14/13 12:28	7440-43-9	
Calcium, Dissolved	**257000**	ug/L	400	20	05/07/13 14:46	05/14/13 12:34	7440-70-2	
Chromium, Dissolved	**0.70**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-47-3	
Cobalt, Dissolved	**2.8**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-48-4	
Copper, Dissolved	**12.9**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-50-8	
Iron, Dissolved	**1420**	ug/L	50.0	1	05/07/13 14:46	05/14/13 12:28	7439-89-6	
Lead, Dissolved	**1.0**	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:28	7439-92-1	
Magnesium, Dissolved	**19100**	ug/L	5.0	1	05/07/13 14:46	05/14/13 12:28	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-3_20130425 **Lab ID: 60143382008** Collected: 04/25/13 10:20 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1760**	ug/L	10.0	20	05/07/13 14:46	05/14/13 12:34	7439-96-5	
Molybdenum, Dissolved	**14.6**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7439-98-7	
Nickel, Dissolved	**7.8**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-02-0	
Potassium, Dissolved	**5360**	ug/L	20.0	1	05/07/13 14:46	05/14/13 12:28	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:28	7440-22-4	
Sodium, Dissolved	**11800**	ug/L	50.0	1	05/07/13 14:46	05/14/13 12:28	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:28	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:28	7440-62-2	
Zinc, Dissolved	**3230**	ug/L	100	20	05/07/13 14:46	05/14/13 12:34	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**850**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:48	7429-90-5	
Antimony, Dissolved	**0.25J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-36-0	
Arsenic, Dissolved	**1.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-38-2	
Barium, Dissolved	**19.0**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-39-3	
Beryllium, Dissolved	**0.82**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:48	7440-41-7	
Cadmium, Dissolved	**16.6**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:48	7440-43-9	
Chromium, Dissolved	**1.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-47-3	B
Cobalt, Dissolved	**2.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-48-4	
Copper, Dissolved	**165**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-50-8	
Iron, Dissolved	**11100**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:48	7439-89-6	
Lead, Dissolved	**21.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7439-92-1	
Manganese, Dissolved	**1690**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7439-96-5	
Molybdenum, Dissolved	**16.6**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7439-98-7	
Nickel, Dissolved	**2.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7782-49-2	
Silver, Dissolved	**0.12J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:48	7440-22-4	B
Thallium, Dissolved	**0.26J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:48	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	2.0	2	04/29/13 13:45	05/17/13 14:47	7440-62-2	D3
Zinc, Dissolved	**3640**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:48	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 11:02	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:15	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:35	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1370**	umhos/cm	10.0	1		05/02/13 15:25		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**875**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-3_20130425 **Lab ID: 60143382008** Collected: 04/25/13 10:20 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.68**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**95.0**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**95.0**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**920**	mg/L	5.0	1		05/01/13 09:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**19.0**	mg/L	5.0	1		05/01/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/02/13 14:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 16:27	16887-00-6	
Sulfate	**687**	mg/L	50.0	50		05/09/13 14:32	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:34		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 14:56	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 19:54	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-8_20130425 **Lab ID: 60143382009** Collected: 04/25/13 10:22 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**262000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:41	7440-70-2	
Magnesium, Dissolved	**20100**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:41	7439-95-4	
Potassium, Dissolved	**5340**	ug/L	500	1	04/29/13 13:45	05/03/13 15:41	7440-09-7	
Sodium, Dissolved	**11800**	ug/L	500	1	04/29/13 13:45	05/03/13 15:41	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**1010**	ug/L	4.0	1	05/08/13 16:18	05/11/13 11:39	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-36-0	
Arsenic	**2.4**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-38-2	
Barium	**21.8**	ug/L	0.30	1	05/08/13 16:18	05/11/13 11:39	7440-39-3	
Beryllium	**1.1**	ug/L	0.20	1	05/08/13 16:18	05/11/13 11:39	7440-41-7	
Cadmium	**18.5**	ug/L	0.080	1	05/08/13 16:18	05/11/13 11:39	7440-43-9	
Calcium	**293000**	ug/L	400	20	05/08/13 16:18	05/12/13 23:44	7440-70-2	
Chromium	**0.88**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-47-3	
Cobalt	**1.9**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-48-4	
Copper	**170**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-50-8	
Iron	**12300**	ug/L	50.0	1	05/08/13 16:18	05/11/13 11:39	7439-89-6	
Lead	**24.4**	ug/L	0.10	1	05/08/13 16:18	05/11/13 11:39	7439-92-1	
Magnesium	**19500**	ug/L	5.0	1	05/08/13 16:18	05/11/13 11:39	7439-95-4	
Manganese	**1880**	ug/L	10.0	20	05/08/13 16:18	05/12/13 23:44	7439-96-5	
Molybdenum	**17.6**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7439-98-7	
Nickel	**4.3**	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-02-0	
Potassium	**5360**	ug/L	20.0	1	05/08/13 16:18	05/11/13 11:39	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7782-49-2	
Silica	**20100**	ug/L	1070	20	05/08/13 16:18	05/12/13 23:44	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 11:39	7440-22-4	
Sodium	**13500**	ug/L	50.0	1	05/08/13 16:18	05/11/13 11:39	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 11:39	7440-28-0	
Total Hardness by 2340B	**813000**	ug/L	1420	20	05/08/13 16:18	05/12/13 23:44		
Vanadium	**0.19**	ug/L	0.10	1	05/08/13 16:18	05/11/13 11:39	7440-62-2	
Zinc	**4130**	ug/L	100	20	05/08/13 16:18	05/12/13 23:44	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**12.5**	ug/L	4.0	1	05/07/13 14:46	05/14/13 12:40	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-38-2	
Barium, Dissolved	**19.9**	ug/L	0.30	1	05/07/13 14:46	05/14/13 12:40	7440-39-3	
Beryllium, Dissolved	**0.26**	ug/L	0.20	1	05/07/13 14:46	05/14/13 12:40	7440-41-7	
Cadmium, Dissolved	**15.3**	ug/L	0.080	1	05/07/13 14:46	05/14/13 12:40	7440-43-9	
Calcium, Dissolved	**257000**	ug/L	400	20	05/07/13 14:46	05/14/13 12:46	7440-70-2	
Chromium, Dissolved	**1.1**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-47-3	
Cobalt, Dissolved	**2.7**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-48-4	
Copper, Dissolved	**5.9**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-50-8	
Iron, Dissolved	**536**	ug/L	50.0	1	05/07/13 14:46	05/14/13 12:40	7439-89-6	
Lead, Dissolved	**0.13**	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:40	7439-92-1	
Magnesium, Dissolved	**19600**	ug/L	5.0	1	05/07/13 14:46	05/14/13 12:40	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-8_20130425 **Lab ID: 60143382009** Collected: 04/25/13 10:22 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1780**	ug/L	10.0	20	05/07/13 14:46	05/14/13 12:46	7439-96-5	
Molybdenum, Dissolved	**14.5**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7439-98-7	
Nickel, Dissolved	**7.3**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-02-0	
Potassium, Dissolved	**5360**	ug/L	20.0	1	05/07/13 14:46	05/14/13 12:40	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:40	7440-22-4	
Sodium, Dissolved	**11600**	ug/L	50.0	1	05/07/13 14:46	05/14/13 12:40	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:40	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:40	7440-62-2	
Zinc, Dissolved	**3180**	ug/L	100	20	05/07/13 14:46	05/14/13 12:46	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**744**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:52	7429-90-5	
Antimony, Dissolved	**0.23J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-36-0	
Arsenic, Dissolved	**1.7**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-38-2	
Barium, Dissolved	**17.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-39-3	
Beryllium, Dissolved	**0.82**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:52	7440-41-7	
Cadmium, Dissolved	**16.6**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:52	7440-43-9	
Chromium, Dissolved	**1.9**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-47-3	B
Cobalt, Dissolved	**2.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-48-4	
Copper, Dissolved	**160**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-50-8	
Iron, Dissolved	**10700**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:52	7439-89-6	
Lead, Dissolved	**20.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7439-92-1	
Manganese, Dissolved	**1650**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7439-96-5	
Molybdenum, Dissolved	**16.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7439-98-7	
Nickel, Dissolved	**3.0**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7782-49-2	
Silver, Dissolved	**0.13J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:52	7440-22-4	B
Thallium, Dissolved	**0.26J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:52	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	2.0	2	04/29/13 13:45	05/17/13 14:51	7440-62-2	D3
Zinc, Dissolved	**3570**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:52	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 11:09	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:17	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:38	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1350**	umhos/cm	10.0	1		05/02/13 15:46		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**867**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-8_20130425 **Lab ID: 60143382009** Collected: 04/25/13 10:22 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.68**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**81.7**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**81.7**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**960**	mg/L	5.0	1		05/01/13 09:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**18.0**	mg/L	5.0	1		05/01/13 10:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/02/13 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 17:02	16887-00-6	
Sulfate	**684**	mg/L	50.0	50		05/09/13 14:50	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:35		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 14:57	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 20:01	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-4_20130425 **Lab ID: 60143382010** Collected: 04/25/13 10:30 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**262000**	ug/L	100	1	04/29/13 13:45	05/03/13 15:44	7440-70-2	
Magnesium, Dissolved	**20700**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:44	7439-95-4	
Potassium, Dissolved	**5750**	ug/L	500	1	04/29/13 13:45	05/03/13 15:44	7440-09-7	
Sodium, Dissolved	**12700**	ug/L	500	1	04/29/13 13:45	05/03/13 15:44	7440-23-5	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	**227**	ug/L	4.0	1	05/08/13 16:18	05/12/13 23:49	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-36-0	
Arsenic	**0.74**	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-38-2	
Barium	**20.7**	ug/L	0.30	1	05/08/13 16:18	05/12/13 23:49	7440-39-3	
Beryllium	**2.7**	ug/L	0.20	1	05/08/13 16:18	05/12/13 23:49	7440-41-7	
Cadmium	**14.2**	ug/L	0.080	1	05/08/13 16:18	05/12/13 23:49	7440-43-9	
Calcium	**290000**	ug/L	400	20	05/08/13 16:18	05/12/13 23:55	7440-70-2	
Chromium	**1.2**	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-47-3	
Cobalt	**2.5**	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-48-4	
Copper	**39.7**	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-50-8	
Iron	**2780**	ug/L	50.0	1	05/08/13 16:18	05/12/13 23:49	7439-89-6	
Lead	**5.5**	ug/L	0.10	1	05/08/13 16:18	05/12/13 23:49	7439-92-1	
Magnesium	**20200**	ug/L	5.0	1	05/08/13 16:18	05/12/13 23:49	7439-95-4	
Manganese	**1800**	ug/L	10.0	20	05/08/13 16:18	05/12/13 23:55	7439-96-5	
Molybdenum	**15.0**	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7439-98-7	
Nickel	**4.3**	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-02-0	
Potassium	**5410**	ug/L	20.0	1	05/08/13 16:18	05/12/13 23:49	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7782-49-2	
Silica	**17400**	ug/L	1070	20	05/08/13 16:18	05/12/13 23:55	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/12/13 23:49	7440-22-4	
Sodium	**12900**	ug/L	50.0	1	05/08/13 16:18	05/12/13 23:49	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/12/13 23:49	7440-28-0	
Total Hardness by 2340B	**808000**	ug/L	1420	20	05/08/13 16:18	05/12/13 23:55		
Vanadium	ND	ug/L	0.10	1	05/08/13 16:18	05/12/13 23:49	7440-62-2	
Zinc	**2830**	ug/L	100	20	05/08/13 16:18	05/12/13 23:55	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**10.6**	ug/L	4.0	1	05/07/13 14:46	05/14/13 12:53	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-38-2	
Barium, Dissolved	**20.2**	ug/L	0.30	1	05/07/13 14:46	05/14/13 12:53	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 12:53	7440-41-7	
Cadmium, Dissolved	**11.9**	ug/L	0.080	1	05/07/13 14:46	05/14/13 12:53	7440-43-9	
Calcium, Dissolved	**265000**	ug/L	400	20	05/07/13 14:46	05/14/13 12:59	7440-70-2	
Chromium, Dissolved	**1.2**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-47-3	
Cobalt, Dissolved	**2.7**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-48-4	
Copper, Dissolved	**2.9**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	05/07/13 14:46	05/14/13 12:53	7439-89-6	
Lead, Dissolved	**0.12**	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:53	7439-92-1	
Magnesium, Dissolved	**19800**	ug/L	5.0	1	05/07/13 14:46	05/14/13 12:53	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-4_20130425 **Lab ID: 60143382010** Collected: 04/25/13 10:30 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	**1770**	ug/L	10.0	20	05/07/13 14:46	05/14/13 12:59	7439-96-5	
Molybdenum, Dissolved	**15.1**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7439-98-7	
Nickel, Dissolved	**8.1**	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-02-0	
Potassium, Dissolved	**5560**	ug/L	20.0	1	05/07/13 14:46	05/14/13 12:53	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 12:53	7440-22-4	
Sodium, Dissolved	**12500**	ug/L	50.0	1	05/07/13 14:46	05/14/13 12:53	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:53	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 12:53	7440-62-2	
Zinc, Dissolved	**2290**	ug/L	100	20	05/07/13 14:46	05/14/13 12:59	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	**162**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:56	7429-90-5	
Antimony, Dissolved	**0.17J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-36-0	
Arsenic, Dissolved	**0.23J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-38-2	
Barium, Dissolved	**19.0**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-39-3	
Beryllium, Dissolved	**0.20J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:56	7440-41-7	
Cadmium, Dissolved	**13.4**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:56	7440-43-9	
Chromium, Dissolved	**1.1**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-47-3	B
Cobalt, Dissolved	**2.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-48-4	
Copper, Dissolved	**37.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-50-8	
Iron, Dissolved	**2550**	ug/L	50.0	1	04/29/13 13:45	05/10/13 18:56	7439-89-6	
Lead, Dissolved	**5.4**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7439-92-1	
Manganese, Dissolved	**1650**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7439-96-5	
Molybdenum, Dissolved	**15.5**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7439-98-7	
Nickel, Dissolved	**2.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7782-49-2	
Silver, Dissolved	**0.10J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 18:56	7440-22-4	B
Thallium, Dissolved	**0.26J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 18:56	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	2.0	2	04/29/13 13:45	05/17/13 15:03	7440-62-2	D3
Zinc, Dissolved	**2600**	ug/L	10.0	1	04/29/13 13:45	05/10/13 18:56	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 11:11	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:19	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:40	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	**1330**	umhos/cm	10.0	1		05/02/13 15:47		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	**851**	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: DR-4_20130425 **Lab ID: 60143382010** Collected: 04/25/13 10:30 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	**0.66**	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	**98.8**	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	**98.8**	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**959**	mg/L	5.0	1		05/01/13 09:48		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/01/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/02/13 14:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/08/13 17:38	16887-00-6	
Sulfate	**608**	mg/L	50.0	50		05/09/13 15:07	14808-79-8	M6
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:35		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	**0.0061**	mg/L	0.0050	1		04/29/13 14:57	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 20:07	7440-44-0	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: FB_20130425 **Lab ID: 60143382011** Collected: 04/25/13 11:15 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Potentially Diss. Metals	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Calcium, Dissolved	**106**	ug/L	100	1	04/29/13 13:45	05/03/13 15:28	7440-70-2	B
Magnesium, Dissolved	**18.5J**	ug/L	50.0	1	04/29/13 13:45	05/03/13 15:28	7439-95-4	B
Potassium, Dissolved	**184J**	ug/L	500	1	04/29/13 13:45	05/03/13 15:28	7440-09-7	
Sodium, Dissolved	**538**	ug/L	500	1	04/29/13 13:45	05/03/13 15:28	7440-23-5	B
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum	ND	ug/L	4.0	1	05/08/13 16:18	05/11/13 12:03	7429-90-5	
Antimony	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-36-0	
Arsenic	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-38-2	
Barium	**0.33**	ug/L	0.30	1	05/08/13 16:18	05/11/13 12:03	7440-39-3	
Beryllium	ND	ug/L	0.20	1	05/08/13 16:18	05/11/13 12:03	7440-41-7	
Cadmium	ND	ug/L	0.080	1	05/08/13 16:18	05/11/13 12:03	7440-43-9	
Calcium	**80.0**	ug/L	20.0	1	05/08/13 16:18	05/11/13 12:03	7440-70-2	
Chromium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-47-3	
Cobalt	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-48-4	
Copper	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-50-8	
Iron	ND	ug/L	50.0	1	05/08/13 16:18	05/11/13 12:03	7439-89-6	
Lead	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 12:03	7439-92-1	
Magnesium	**8.4**	ug/L	5.0	1	05/08/13 16:18	05/11/13 12:03	7439-95-4	
Manganese	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7439-96-5	
Molybdenum	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7439-98-7	
Nickel	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-02-0	
Potassium	ND	ug/L	20.0	1	05/08/13 16:18	05/11/13 12:03	7440-09-7	
Selenium	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7782-49-2	
Silica	**118**	ug/L	53.5	1	05/08/13 16:18	05/13/13 00:01	7631-86-9	
Silver	ND	ug/L	0.50	1	05/08/13 16:18	05/11/13 12:03	7440-22-4	
Sodium	**414**	ug/L	50.0	1	05/08/13 16:18	05/13/13 00:01	7440-23-5	
Thallium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 12:03	7440-28-0	
Total Hardness by 2340B	**234**	ug/L	71.0	1	05/08/13 16:18	05/11/13 12:03		
Vanadium	ND	ug/L	0.10	1	05/08/13 16:18	05/11/13 12:03	7440-62-2	
Zinc	ND	ug/L	5.0	1	05/08/13 16:18	05/11/13 12:03	7440-66-6	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	4.0	1	05/07/13 14:46	05/14/13 13:05	7429-90-5	
Antimony, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-36-0	
Arsenic, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-38-2	
Barium, Dissolved	ND	ug/L	0.30	1	05/07/13 14:46	05/14/13 13:05	7440-39-3	
Beryllium, Dissolved	ND	ug/L	0.20	1	05/07/13 14:46	05/14/13 13:05	7440-41-7	
Cadmium, Dissolved	ND	ug/L	0.080	1	05/07/13 14:46	05/14/13 13:05	7440-43-9	
Calcium, Dissolved	**48.4**	ug/L	20.0	1	05/07/13 14:46	05/14/13 13:05	7440-70-2	
Chromium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-47-3	
Cobalt, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-48-4	
Copper, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-50-8	
Iron, Dissolved	ND	ug/L	50.0	1	05/07/13 14:46	05/14/13 13:05	7439-89-6	
Lead, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 13:05	7439-92-1	
Magnesium, Dissolved	ND	ug/L	5.0	1	05/07/13 14:46	05/14/13 13:05	7439-95-4	

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: FB_20130425 **Lab ID: 60143382011** Collected: 04/25/13 11:15 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Manganese, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7439-98-7	
Nickel, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-02-0	
Potassium, Dissolved	ND	ug/L	20.0	1	05/07/13 14:46	05/14/13 13:05	7440-09-7	
Selenium, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7782-49-2	
Silver, Dissolved	ND	ug/L	0.50	1	05/07/13 14:46	05/14/13 13:05	7440-22-4	
Sodium, Dissolved	**381**	ug/L	50.0	1	05/07/13 14:46	05/14/13 13:05	7440-23-5	
Thallium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 13:05	7440-28-0	
Vanadium, Dissolved	ND	ug/L	0.10	1	05/07/13 14:46	05/14/13 13:05	7440-62-2	
Zinc, Dissolved	ND	ug/L	5.0	1	05/07/13 14:46	05/14/13 13:05	7440-66-6	
200.8 Potentially Diss. Metals	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Aluminum, Dissolved	ND	ug/L	50.0	1	04/29/13 13:45	05/10/13 19:00	7429-90-5	
Antimony, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-36-0	
Arsenic, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-38-2	
Barium, Dissolved	**0.70J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-39-3	B
Beryllium, Dissolved	ND	ug/L	0.50	1	04/29/13 13:45	05/10/13 19:00	7440-41-7	
Cadmium, Dissolved	**0.16J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 19:00	7440-43-9	B
Chromium, Dissolved	**0.84J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-47-3	B
Cobalt, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-48-4	
Copper, Dissolved	**1.3**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-50-8	
Iron, Dissolved	**14.5J**	ug/L	50.0	1	04/29/13 13:45	05/10/13 19:00	7439-89-6	B
Lead, Dissolved	**0.13J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7439-92-1	B
Manganese, Dissolved	**0.67J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7439-96-5	
Molybdenum, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7439-98-7	
Nickel, Dissolved	**1.8**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-02-0	
Selenium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7782-49-2	
Silver, Dissolved	**0.094J**	ug/L	0.50	1	04/29/13 13:45	05/10/13 19:00	7440-22-4	B
Thallium, Dissolved	**0.20J**	ug/L	1.0	1	04/29/13 13:45	05/10/13 19:00	7440-28-0	B
Vanadium, Dissolved	ND	ug/L	1.0	1	04/29/13 13:45	05/17/13 14:39	7440-62-2	
Zinc, Dissolved	**3.4J**	ug/L	10.0	1	04/29/13 13:45	05/10/13 19:00	7440-66-6	B
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	05/07/13 13:52	05/09/13 11:13	7439-97-6	
245.1 Mercury, Dissolved	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	05/07/13 13:41	05/09/13 10:21	7439-97-6	
245.1 Potentially Diss Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	0.20	1	04/29/13 15:00	04/30/13 12:42	7439-97-6	
2510B Specific Conductance	Analytical Method: SM 2510B							
Specific Conductance	ND	umhos/cm	10.0	1		05/02/13 15:59		
Salinity	Analytical Method: Calculated							
Salinity (as dissolved solids)	ND	mg/L	6.4	1		05/02/13 12:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Sample: FB_20130425 **Lab ID: 60143382011** Collected: 04/25/13 11:15 Received: 04/26/13 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Salinity	Analytical Method: Calculated							
Salinity (as seawater)	ND	PSU	0.014	1		05/02/13 12:00		
2320B Alkalinity	Analytical Method: SM 2320B							
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	20.0	1		05/06/13 13:30		
Alkalinity, Total as CaCO3	ND	mg/L	20.0	1		05/06/13 13:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	5.0	1		05/01/13 09:49		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**6.0**	mg/L	5.0	1		05/01/13 10:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D							
Sulfide, Total	ND	mg/L	0.050	1		05/02/13 14:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.0	1		05/09/13 15:43	16887-00-6	
Sulfate	ND	mg/L	1.0	1		05/09/13 15:43	14808-79-8	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		04/30/13 10:36		
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.0050	1		04/29/13 15:00	57-12-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/09/13 20:14	7440-44-0	

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Appendix D

Laboratory QC Results

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MERP/8252 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1408338 Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/18/13 10:26	

LABORATORY CONTROL SAMPLE: 1408339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1408340 1408341

Parameter	Units	60141898001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.63	5	5	5.1	5.8	89	102	85-115	12	30	

MATRIX SPIKE SAMPLE: 1408342

Parameter	Units	10225154001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.1	101	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MERP/8247 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1407487 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/18/13 11:40	

LABORATORY CONTROL SAMPLE: 1407488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1409447 1409448

Parameter	Units	60141898002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.2	5.0	104	100	85-115	4	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MERP/7239 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1167270 — Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/10/13 12:50	

LABORATORY CONTROL SAMPLE: 1167271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1167272 1167273

Parameter	Units	60141898001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.6	4.6	91	92	70-130	1	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MPRP/22241 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1167690 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	28.3J	100	04/16/13 12:41	
Magnesium, Dissolved	ug/L	15.8J	50.0	04/16/13 12:41	
Potassium, Dissolved	ug/L	ND	500	04/16/13 12:41	
Sodium, Dissolved	ug/L	94.5J	500	04/16/13 12:41	

LABORATORY CONTROL SAMPLE: 1167691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9840	98	85-115	
Magnesium, Dissolved	ug/L	10000	10100	101	85-115	
Potassium, Dissolved	ug/L	10000	10000	100	85-115	
Sodium, Dissolved	ug/L	10000	9920	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1167692 1167693

Parameter	Units	60141898003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	134000	10000	10000	144000	143000	104	94	70-130	1	20	
Magnesium, Dissolved	ug/L	15500	10000	10000	25400	25100	100	96	70-130	1	20	
Potassium, Dissolved	ug/L	2920	10000	10000	13200	13100	103	102	70-130	1	20	
Sodium, Dissolved	ug/L	4830	10000	10000	15200	15100	104	103	70-130	1	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MPRP/38432 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1406638 Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	04/12/13 05:28	
Antimony	ug/L	ND	0.50	04/12/13 05:28	
Arsenic	ug/L	ND	0.50	04/12/13 05:28	
Barium	ug/L	ND	0.30	04/12/13 05:28	
Beryllium	ug/L	ND	0.20	04/12/13 05:28	
Cadmium	ug/L	ND	0.080	04/12/13 05:28	
Calcium	ug/L	ND	20.0	04/12/13 05:28	
Chromium	ug/L	ND	0.50	04/12/13 05:28	
Cobalt	ug/L	ND	0.50	04/12/13 05:28	
Copper	ug/L	ND	0.50	04/12/13 05:28	
Iron	ug/L	ND	50.0	04/12/13 05:28	
Lead	ug/L	ND	0.10	04/12/13 05:28	
Magnesium	ug/L	ND	5.0	04/12/13 05:28	
Manganese	ug/L	ND	0.50	04/12/13 05:28	
Molybdenum	ug/L	ND	0.50	04/12/13 05:28	
Nickel	ug/L	ND	0.50	04/12/13 05:28	
Potassium	ug/L	ND	20.0	04/12/13 05:28	
Selenium	ug/L	ND	0.50	04/12/13 05:28	
Silica	ug/L	ND	53.5	04/13/13 01:14	
Silver	ug/L	ND	0.50	04/12/13 05:28	
Sodium	ug/L	ND	50.0	04/12/13 05:28	
Thallium	ug/L	ND	0.10	04/12/13 05:28	
Vanadium	ug/L	ND	0.10	04/12/13 05:28	
Zinc	ug/L	ND	5.0	04/12/13 05:28	

LABORATORY CONTROL SAMPLE: 1406639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	80.6	101	85-115	
Antimony	ug/L	80	77.9	97	85-115	
Arsenic	ug/L	80	75.2	94	85-115	
Barium	ug/L	80	79.9	100	85-115	
Beryllium	ug/L	80	82.6	103	85-115	
Cadmium	ug/L	80	83.3	104	85-115	
Calcium	ug/L	1000	875	88	85-115	
Chromium	ug/L	80	81.3	102	85-115	
Cobalt	ug/L	80	77.4	97	85-115	
Copper	ug/L	80	79.2	99	85-115	
Iron	ug/L	1000	1040	104	85-115	
Lead	ug/L	80	80.3	100	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

LABORATORY CONTROL SAMPLE: 1406639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Magnesium	ug/L	1000	1020	102	85-115	
Manganese	ug/L	80	82.5	103	85-115	
Molybdenum	ug/L	80	75.6	95	85-115	
Nickel	ug/L	80	80.3	100	85-115	
Potassium	ug/L	1000	938	94	85-115	
Selenium	ug/L	80	78.1	98	85-115	
Silica	ug/L	2140	2050	96	85-115	
Silver	ug/L	80	83.6	104	85-115	
Sodium	ug/L	1000	962	96	85-115	
Thallium	ug/L	80	78.2	98	85-115	
Vanadium	ug/L	80	79.9	100	85-115	
Zinc	ug/L	80	81.3	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406640 1406641

Parameter	Units	10224802001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	0.0088 mg/L	80	80	91.5	91.4	103	103	70-130	.1	20	
Antimony	ug/L	0.47J	80	80	77.5	76.7	96	95	70-130	1	20	
Arsenic	ug/L	0.0031 mg/L	80	80	80.4	79.7	97	96	70-130	.9	20	
Barium	ug/L	11.6	80	80	89.4	90.7	97	99	70-130	2	20	
Beryllium	ug/L	ND	80	80	83.6	84.9	104	106	70-130	2	20	
Cadmium	ug/L	0.00014 mg/L	80	80	82.2	80.4	103	100	70-130	2	20	
Calcium	ug/L	121 mg/L	1000	1000	123000	123000	280	260	70-130	.2	20	M6
Chromium	ug/L	1.5	80	80	74.2	75.9	91	93	70-130	2	20	
Cobalt	ug/L	0.23J	80	80	78.0	77.2	97	96	70-130	1	20	
Copper	ug/L	0.0073 mg/L	80	80	85.2	86.9	97	100	70-130	2	20	
Iron	ug/L	0.020J mg/L	1000	1000	1000	1000	98	98	70-130	0	20	
Lead	ug/L	0.00032 mg/L	80	80	79.3	79.7	99	99	70-130	.6	20	
Magnesium	ug/L	32.2 mg/L	1000	1000	32000	32200	-20	8	70-130	.9	20	M6
Manganese	ug/L	87.2	80	80	169	168	102	101	70-130	.7	20	
Molybdenum	ug/L	5.6	80	80	82.5	83.8	96	98	70-130	2	20	
Nickel	ug/L	0.96	80	80	80.2	83.9	99	104	70-130	5	20	
Potassium	ug/L	6960	1000	1000	8050	8070	109	111	70-130	.2	20	
Selenium	ug/L	0.17J	80	80	73.5	72.4	92	90	70-130	2	20	
Silica	ug/L	14400	2140	2140	16700	17100	107	127	70-130	3	20	
Silver	ug/L	ND	80	80	44.3	44.6	55	56	70-130	.8	20	M6
Sodium	ug/L	52000	1000	1000	52700	52800	68	76	70-130	.2	20	M6
Thallium	ug/L	0.053J	80	80	77.3	77.7	97	97	70-130	.5	20	
Vanadium	ug/L	0.98	80	80	77.0	78.6	95	97	70-130	2	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406640 1406641

Parameter	Units	10224802001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Zinc	ug/L	0.024 mg/L	80	80	100	105	96	102	70-130	5	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MPRP/38433 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1406642 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	04/11/13 15:07	
Antimony, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Arsenic, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Barium, Dissolved	ug/L	ND	0.30	04/11/13 15:07	
Beryllium, Dissolved	ug/L	ND	0.20	04/11/13 15:07	
Cadmium, Dissolved	ug/L	ND	0.080	04/11/13 15:07	
Calcium, Dissolved	ug/L	ND	20.0	04/11/13 15:07	
Chromium, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Cobalt, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Copper, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Iron, Dissolved	ug/L	ND	50.0	04/11/13 15:07	
Lead, Dissolved	ug/L	ND	0.10	04/11/13 15:07	
Magnesium, Dissolved	ug/L	ND	5.0	04/11/13 15:07	
Manganese, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Molybdenum, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Nickel, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Potassium, Dissolved	ug/L	ND	20.0	04/11/13 15:07	
Selenium, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Silver, Dissolved	ug/L	ND	0.50	04/11/13 15:07	
Sodium, Dissolved	ug/L	ND	50.0	04/11/13 15:07	
Thallium, Dissolved	ug/L	ND	0.10	04/11/13 15:07	
Vanadium, Dissolved	ug/L	ND	0.10	04/11/13 15:07	
Zinc, Dissolved	ug/L	ND	5.0	04/11/13 15:07	

LABORATORY CONTROL SAMPLE: 1406643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	80.0	100	85-115	
Antimony, Dissolved	ug/L	80	79.3	99	85-115	
Arsenic, Dissolved	ug/L	80	77.3	97	85-115	
Barium, Dissolved	ug/L	80	81.1	101	85-115	
Beryllium, Dissolved	ug/L	80	82.2	103	85-115	
Cadmium, Dissolved	ug/L	80	80.6	101	85-115	
Calcium, Dissolved	ug/L	1000	923	92	85-115	
Chromium, Dissolved	ug/L	80	79.0	99	85-115	
Cobalt, Dissolved	ug/L	80	78.7	98	85-115	
Copper, Dissolved	ug/L	80	79.4	99	85-115	
Iron, Dissolved	ug/L	1000	1020	102	85-115	
Lead, Dissolved	ug/L	80	81.8	102	85-115	
Magnesium, Dissolved	ug/L	1000	1030	103	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

LABORATORY CONTROL SAMPLE: 1406643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	80.4	101	85-115	
Molybdenum, Dissolved	ug/L	80	76.9	96	85-115	
Nickel, Dissolved	ug/L	80	79.5	99	85-115	
Potassium, Dissolved	ug/L	1000	972	97	85-115	
Selenium, Dissolved	ug/L	80	79.8	100	85-115	
Silver, Dissolved	ug/L	80	82.8	103	85-115	
Sodium, Dissolved	ug/L	1000	1020	102	85-115	
Thallium, Dissolved	ug/L	80	83.0	104	85-115	
Vanadium, Dissolved	ug/L	80	78.3	98	85-115	
Zinc, Dissolved	ug/L	80	81.8	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1406644 1406645

Parameter	Units	60141898001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	2460	80	80	4200	4380	2180	2410	70-130	4	20	M6
Antimony, Dissolved	ug/L	ND	80	80	75.0	76.6	93	95	70-130	2	20	
Arsenic, Dissolved	ug/L	3.2	80	80	81.2	81.6	98	98	70-130	.5	20	
Barium, Dissolved	ug/L	102	80	80	186	184	104	102	70-130	1	20	
Beryllium, Dissolved	ug/L	ND	80	80	81.7	80.7	102	101	70-130	1	20	
Cadmium, Dissolved	ug/L	0.28	80	80	81.4	80.4	101	100	70-130	1	20	
Calcium, Dissolved	ug/L	60200	1000	1000	55900	56400	-439	-386	70-130	.9	20	M6
Chromium, Dissolved	ug/L	2.7	80	80	77.4	78.0	93	94	70-130	.8	20	
Cobalt, Dissolved	ug/L	2.1	80	80	81.7	82.7	100	101	70-130	1	20	
Copper, Dissolved	ug/L	12.6	80	80	93.3	93.7	101	101	70-130	.4	20	
Iron, Dissolved	ug/L	3740	1000	1000	5010	5060	127	132	70-130	1	20	M6
Lead, Dissolved	ug/L	10.8	80	80	89.5	90.8	98	100	70-130	1	20	
Magnesium, Dissolved	ug/L	7810	1000	1000	8620	8590	80	77	70-130	.3	20	
Manganese, Dissolved	ug/L	379	80	80	457	453	98	93	70-130	.9	20	
Molybdenum, Dissolved	ug/L	2.0	80	80	82.4	81.4	100	99	70-130	1	20	
Nickel, Dissolved	ug/L	7.2	80	80	91.2	90.3	105	104	70-130	.9	20	
Potassium, Dissolved	ug/L	1430	1000	1000	2770	2890	134	146	70-130	4	20	M6
Selenium, Dissolved	ug/L	1.1	80	80	80.1	79.2	99	98	70-130	1	20	
Silver, Dissolved	ug/L	ND	80	80	86.5	89.0	108	111	70-130	3	20	
Sodium, Dissolved	ug/L	3250	1000	1000	4160	4190	91	94	70-130	.6	20	
Thallium, Dissolved	ug/L	ND	80	80	77.5	77.4	97	97	70-130	.1	20	
Vanadium, Dissolved	ug/L	4.8	80	80	86.3	85.3	102	101	70-130	1	20	
Zinc, Dissolved	ug/L	42.1	80	80	125	130	104	109	70-130	3	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MPRP/22242 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1167694 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	04/19/13 12:26	
Antimony, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Arsenic, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Barium, Dissolved	ug/L	0.22J	1.0	04/19/13 12:26	
Beryllium, Dissolved	ug/L	ND	0.50	04/19/13 12:26	
Cadmium, Dissolved	ug/L	ND	0.50	04/19/13 12:26	
Chromium, Dissolved	ug/L	0.36J	1.0	04/19/13 12:26	
Cobalt, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Copper, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Iron, Dissolved	ug/L	ND	50.0	04/19/13 12:26	
Lead, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Manganese, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Molybdenum, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Nickel, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Selenium, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Silver, Dissolved	ug/L	ND	0.50	04/19/13 12:26	
Thallium, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Vanadium, Dissolved	ug/L	ND	1.0	04/19/13 12:26	
Zinc, Dissolved	ug/L	ND	10.0	04/19/13 12:26	

LABORATORY CONTROL SAMPLE: 1167695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	1010	101	85-115	
Antimony, Dissolved	ug/L	40	41.1	103	85-115	
Arsenic, Dissolved	ug/L	40	41.4	104	85-115	
Barium, Dissolved	ug/L	40	41.6	104	85-115	
Beryllium, Dissolved	ug/L	40	42.0	105	85-115	
Cadmium, Dissolved	ug/L	40	41.0	102	85-115	
Chromium, Dissolved	ug/L	40	41.2	103	85-115	
Cobalt, Dissolved	ug/L	40	40.4	101	85-115	
Copper, Dissolved	ug/L	40	41.6	104	85-115	
Iron, Dissolved	ug/L	1000	1010	101	85-115	
Lead, Dissolved	ug/L	40	37.3	93	85-115	
Manganese, Dissolved	ug/L	40	41.1	103	85-115	
Molybdenum, Dissolved	ug/L	40	41.5	104	85-115	
Nickel, Dissolved	ug/L	40	41.7	104	85-115	
Selenium, Dissolved	ug/L	40	41.0	102	85-115	
Silver, Dissolved	ug/L	20	20.0	100	85-115	
Thallium, Dissolved	ug/L	40	40.9	102	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

LABORATORY CONTROL SAMPLE: 1167695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	41.3	103	85-115	
Zinc, Dissolved	ug/L	100	105	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1167696 1167697

Parameter	Units	60141898002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	4830	1000	1000	5830	5740	100	91	70-130	2	20	
Antimony, Dissolved	ug/L	0.30J	40	40	41.6	41.2	103	102	70-130	1	20	
Arsenic, Dissolved	ug/L	9.8	40	40	51.6	51.2	104	103	70-130	1	20	
Barium, Dissolved	ug/L	77.6	40	40	117	118	99	100	70-130	1	20	
Beryllium, Dissolved	ug/L	0.65	40	40	39.7	38.9	98	96	70-130	2	20	
Cadmium, Dissolved	ug/L	4.5	40	40	45.2	44.8	102	101	70-130	1	20	
Chromium, Dissolved	ug/L	9.0	40	40	49.2	48.4	100	98	70-130	2	20	
Cobalt, Dissolved	ug/L	9.3	40	40	47.7	47.5	96	96	70-130	0	20	
Copper, Dissolved	ug/L	126	40	40	164	164	97	95	70-130	0	20	
Iron, Dissolved	ug/L	11700	1000	1000	12800	12700	112	101	70-130	1	20	
Lead, Dissolved	ug/L	160	40	40	205	205	112	114	70-130	0	20	
Manganese, Dissolved	ug/L	2110	40	40	2160	2150	118	90	70-130	1	20	
Molybdenum, Dissolved	ug/L	0.36J	40	40	43.0	42.7	107	106	70-130	1	20	
Nickel, Dissolved	ug/L	10.8	40	40	49.5	49.1	97	96	70-130	1	20	
Selenium, Dissolved	ug/L	40.0	40	40	80.6	79.9	101	100	70-130	1	20	
Silver, Dissolved	ug/L	1.6	20	20	21.2	21.1	98	97	70-130	1	20	
Thallium, Dissolved	ug/L	0.033J	40	40	40.7	40.9	102	102	70-130	1	20	
Vanadium, Dissolved	ug/L	7.2	40	40	48.2	47.6	103	101	70-130	1	20	
Zinc, Dissolved	ug/L	675	100	100	774	773	99	98	70-130	0	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: MT/11652 | Analysis Method: SM 2510B
QC Batch Method: SM 2510B | Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010, 60141898011

METHOD BLANK: 1406682 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010, 60141898011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	04/10/13 09:40	

LABORATORY CONTROL SAMPLE: 1406683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	990	99	90-110	

SAMPLE DUPLICATE: 1406684

Parameter	Units	60141898011 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	757	757	0	20	

SAMPLE DUPLICATE: 1406685

Parameter	Units	60141898009 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	983	994	1	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40693 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

METHOD BLANK: 1167967 Matrix: Water
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	04/13/13 17:30	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	04/13/13 17:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	04/13/13 17:30	

LABORATORY CONTROL SAMPLE: 1167968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	486	97	90-110	

SAMPLE DUPLICATE: 1167971

Parameter	Units	60141745001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	167	169	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	167	169	1	10	

SAMPLE DUPLICATE: 1167972

Parameter	Units	60141898004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	167	165	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	167	165	1	10	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40778 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898011

METHOD BLANK: 1170410 Matrix: Water
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	04/16/13 13:30	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	04/16/13 13:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	04/16/13 13:30	

LABORATORY CONTROL SAMPLE: 1170411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	492	98	90-110	

SAMPLE DUPLICATE: 1170414

Parameter	Units	60142180005 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	502	494	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	502	494	2	10	

SAMPLE DUPLICATE: 1170415

Parameter	Units	60141898001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	104	106	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	104	106	2	10	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40649 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

METHOD BLANK: 1166993 Matrix: Water
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	04/09/13 13:40	

SAMPLE DUPLICATE: 1166994

Parameter	Units	60141898003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	438	426	3	17	

SAMPLE DUPLICATE: 1166995

Parameter	Units	60141741001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	756	794	5	17	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40675 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898011

METHOD BLANK: 1167583 Matrix: Water
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	04/10/13 14:39	

SAMPLE DUPLICATE: 1167584

Parameter	Units	60141848003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1300	1330	2	17	

SAMPLE DUPLICATE: 1167585

Parameter	Units	60141848004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1040	4	17	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40637 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

METHOD BLANK: 1166468 Matrix: Water
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/13 13:20	

SAMPLE DUPLICATE: 1166469

Parameter	Units	60141684001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	24.0	25.0	4	25	

SAMPLE DUPLICATE: 1166470

Parameter	Units	60141898005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	309	331	7	25	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40651 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898011

METHOD BLANK: 1167001 Matrix: Water
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/09/13 13:55	

SAMPLE DUPLICATE: 1167002

Parameter	Units	60141831001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1167003

Parameter	Units	60141834005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	91.4	117	25	25	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40621 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

METHOD BLANK: 1166158 Matrix: Water
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	04/07/13 10:46	

LABORATORY CONTROL SAMPLE: 1166159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	105	80-120	

MATRIX SPIKE SAMPLE: 1166160

Parameter	Units	60141734001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	ND	7	75-125	M1

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WET/40622 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898012

METHOD BLANK: 1166161 Matrix: Water
Associated Lab Samples: 60141898001, 60141898008, 60141898009, 60141898010, 60141898012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	04/07/13 11:04	

LABORATORY CONTROL SAMPLE: 1166162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.52	105	80-120	

MATRIX SPIKE SAMPLE: 1166163

Parameter	Units	60141863004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.18	32	75-125	M1

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WETA/24237 | Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 | Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898011

METHOD BLANK: 1169990 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/15/13 09:10	
Sulfate	mg/L	ND	1.0	04/15/13 09:10	

LABORATORY CONTROL SAMPLE: 1169991

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1169926 1169927

Parameter	Units	60141942010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	500	500	498	519	80	84	64-118	4	12	
Sulfate	mg/L	949	500	500	1400	1420	90	95	61-119	2	10	

MATRIX SPIKE SAMPLE: 1169928

Parameter	Units	60141898001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	3.4	5	8.2	95	64-118	
Sulfate	mg/L	57.3	25	83.9	106	61-119	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WETA/24255 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1170135 Matrix: Water
Associated Lab Samples: 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/15/13 15:45	

METHOD BLANK: 1170579 Matrix: Water
Associated Lab Samples: 60141898006, 60141898007, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	04/16/13 15:13	

LABORATORY CONTROL SAMPLE: 1170136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	99	90-110	

LABORATORY CONTROL SAMPLE: 1170580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1170137 1170138

Parameter	Units	60141898006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	5	5	6.0	6.1	89	92	64-118	2	12	
Sulfate	mg/L	788	500	500	1260	1270	95	96	61-119	1	10	

MATRIX SPIKE SAMPLE: 1170139

Parameter	Units	60142189001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5.3J	50	49.6	89	64-118	
Sulfate	mg/L	91.9	50	140	97	61-119	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WETA/24260 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010, 60141898012

METHOD BLANK: 1170433 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010, 60141898012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	04/16/13 14:17	

LABORATORY CONTROL SAMPLE: 1170434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1170435

Parameter	Units	60141798001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	3.7	4	7.7	98	90-110	

MATRIX SPIKE SAMPLE: 1170437

Parameter	Units	60141839001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	45.2	40	87.8	107	90-110	

SAMPLE DUPLICATE: 1170436

Parameter	Units	60141829002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	7.2	7.3	2	13	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WETA/24150 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

METHOD BLANK: 1166206 Matrix: Water
Associated Lab Samples: 60141898003, 60141898004, 60141898005, 60141898006, 60141898007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	04/08/13 12:20	

LABORATORY CONTROL SAMPLE: 1166207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	109	69-126	

MATRIX SPIKE SAMPLE: 1166208

Parameter	Units	60141898003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.041	39	41-136	M1

MATRIX SPIKE SAMPLE: 1166210

Parameter	Units	60141704002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.10	105	41-136	

SAMPLE DUPLICATE: 1166209

Parameter	Units	60141691001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.060	0.065	7	26	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WETA/24176 Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60141898001, 60141898002, 60141898008, 60141898009, 60141898010

METHOD BLANK: 1167209 Matrix: Water
Associated Lab Samples: 60141898001, 60141898002, 60141898008, 60141898009, 60141898010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	04/10/13 12:07	

LABORATORY CONTROL SAMPLE: 1167210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.10	104	69-126	

MATRIX SPIKE SAMPLE: 1167211

Parameter	Units	60141813002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.10	102	41-136	

SAMPLE DUPLICATE: 1167212

Parameter	Units	60141875001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

QC Batch: WETA/24362 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010, 60141898012

METHOD BLANK: 1174225 | Matrix: Water
Associated Lab Samples: 60141898001, 60141898003, 60141898004, 60141898005, 60141898006, 60141898007, 60141898008, 60141898009, 60141898010, 60141898012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	04/22/13 09:54	

LABORATORY CONTROL SAMPLE: 1174226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.5	109	80-120	

MATRIX SPIKE SAMPLE: 1174227

Parameter	Units	60141898001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	3.7	5	9.4	114	80-120	

SAMPLE DUPLICATE: 1174228

Parameter	Units	60141898012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.8	1.7	2	25	

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QUALIFIERS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1e	Serial Dilution - 10.8% D
2e	Serial Dilution - 13.3% D
B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60141898001	**GW-1_20130403**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898002	**GW-3_20130403**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898003	**GW-4_20130402**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898004	**GW-5_20130402**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898005	**GW-7_20130402**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898006	**MW-101_20130402**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898007	**MW-102_20130402**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898008	**MW-204_20130402**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898009	**AT-2_20130403**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898010	**DR-9_20130403**	EPA 200.7	MPRP/22241	EPA 200.7	ICP/17723
60141898001	**GW-1_20130403**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898002	**GW-3_20130403**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898003	**GW-4_20130402**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898004	**GW-5_20130402**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898005	**GW-7_20130402**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898006	**MW-101_20130402**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898007	**MW-102_20130402**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898008	**MW-204_20130402**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898009	**AT-2_20130403**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898010	**DR-9_20130403**	EPA 200.8	MPRP/38432	EPA 200.8	ICPM/15778
60141898001	**GW-1_20130403**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898002	**GW-3_20130403**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898003	**GW-4_20130402**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898004	**GW-5_20130402**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898005	**GW-7_20130402**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898006	**MW-101_20130402**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898007	**MW-102_20130402**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898008	**MW-204_20130402**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898009	**AT-2_20130403**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898010	**DR-9_20130403**	EPA 200.8	MPRP/38433	EPA 200.8	ICPM/15777
60141898001	**GW-1_20130403**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898002	**GW-3_20130403**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898003	**GW-4_20130402**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898004	**GW-5_20130402**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898005	**GW-7_20130402**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898006	**MW-101_20130402**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898007	**MW-102_20130402**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898008	**MW-204_20130402**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898009	**AT-2_20130403**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898010	**DR-9_20130403**	EPA 200.8	MPRP/22242	EPA 200.8	ICPM/2174
60141898001	**GW-1_20130403**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898002	**GW-3_20130403**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898003	**GW-4_20130402**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898004	**GW-5_20130402**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898005	**GW-7_20130402**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898006	**MW-101_20130402**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898007	**MW-102_20130402**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60141898008	**MW-204_20130402**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898009	**AT-2_20130403**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898010	**DR-9_20130403**	EPA 245.1	MERP/8252	EPA 245.1	MERC/9372
60141898001	**GW-1_20130403**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898002	**GW-3_20130403**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898003	**GW-4_20130402**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898004	**GW-5_20130402**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898005	**GW-7_20130402**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898006	**MW-101_20130402**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898007	**MW-102_20130402**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898008	**MW-204_20130402**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898009	**AT-2_20130403**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898010	**DR-9_20130403**	EPA 245.1	MERP/8247	EPA 245.1	MERC/9360
60141898001	**GW-1_20130403**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898002	**GW-3_20130403**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898003	**GW-4_20130402**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898004	**GW-5_20130402**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898005	**GW-7_20130402**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898006	**MW-101_20130402**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898007	**MW-102_20130402**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898008	**MW-204_20130402**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898009	**AT-2_20130403**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898010	**DR-9_20130403**	EPA 245.1	MERP/7239	EPA 245.1	MERC/7198
60141898001	**GW-1_20130403**	SM 2510B	MT/11652		
60141898003	**GW-4_20130402**	SM 2510B	MT/11652		
60141898004	**GW-5_20130402**	SM 2510B	MT/11652		
60141898005	**GW-7_20130402**	SM 2510B	MT/11652		
60141898006	**MW-101_20130402**	SM 2510B	MT/11652		
60141898007	**MW-102_20130402**	SM 2510B	MT/11652		
60141898008	**MW-204_20130402**	SM 2510B	MT/11652		
60141898009	**AT-2_20130403**	SM 2510B	MT/11652		
60141898010	**DR-9_20130403**	SM 2510B	MT/11652		
60141898011	**GW-3_20130403**	SM 2510B	MT/11652		
60141898001	**GW-1_20130403**	Calculated	MT/11653		
60141898003	**GW-4_20130402**	Calculated	MT/11653		
60141898004	**GW-5_20130402**	Calculated	MT/11653		
60141898005	**GW-7_20130402**	Calculated	MT/11653		
60141898006	**MW-101_20130402**	Calculated	MT/11653		
60141898007	**MW-102_20130402**	Calculated	MT/11653		
60141898008	**MW-204_20130402**	Calculated	MT/11653		
60141898009	**AT-2_20130403**	Calculated	MT/11653		
60141898010	**DR-9_20130403**	Calculated	MT/11653		
60141898011	**GW-3_20130403**	Calculated	MT/11653		
60141898001	**GW-1_20130403**	SM 2320B	WET/40778		
60141898003	**GW-4_20130402**	SM 2320B	WET/40693		
60141898004	**GW-5_20130402**	SM 2320B	WET/40693		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60141898005	**GW-7_20130402**	SM 2320B	WET/40693		
60141898006	**MW-101_20130402**	SM 2320B	WET/40693		
60141898007	**MW-102_20130402**	SM 2320B	WET/40693		
60141898008	**MW-204_20130402**	SM 2320B	WET/40778		
60141898009	**AT-2_20130403**	SM 2320B	WET/40778		
60141898010	**DR-9_20130403**	SM 2320B	WET/40778		
60141898011	**GW-3_20130403**	SM 2320B	WET/40778		
60141898001	**GW-1_20130403**	SM 2540C	WET/40675		
60141898003	**GW-4_20130402**	SM 2540C	WET/40649		
60141898004	**GW-5_20130402**	SM 2540C	WET/40649		
60141898005	**GW-7_20130402**	SM 2540C	WET/40649		
60141898006	**MW-101_20130402**	SM 2540C	WET/40649		
60141898007	**MW-102_20130402**	SM 2540C	WET/40649		
60141898008	**MW-204_20130402**	SM 2540C	WET/40675		
60141898009	**AT-2_20130403**	SM 2540C	WET/40675		
60141898010	**DR-9_20130403**	SM 2540C	WET/40675		
60141898011	**GW-3_20130403**	SM 2540C	WET/40675		
60141898001	**GW-1_20130403**	SM 2540D	WET/40651		
60141898003	**GW-4_20130402**	SM 2540D	WET/40637		
60141898004	**GW-5_20130402**	SM 2540D	WET/40637		
60141898005	**GW-7_20130402**	SM 2540D	WET/40637		
60141898006	**MW-101_20130402**	SM 2540D	WET/40637		
60141898007	**MW-102_20130402**	SM 2540D	WET/40637		
60141898008	**MW-204_20130402**	SM 2540D	WET/40651		
60141898009	**AT-2_20130403**	SM 2540D	WET/40651		
60141898010	**DR-9_20130403**	SM 2540D	WET/40651		
60141898011	**GW-3_20130403**	SM 2540D	WET/40651		
60141898001	**GW-1_20130403**	SM 4500-S-2 D	WET/40622		
60141898003	**GW-4_20130402**	SM 4500-S-2 D	WET/40621		
60141898004	**GW-5_20130402**	SM 4500-S-2 D	WET/40621		
60141898005	**GW-7_20130402**	SM 4500-S-2 D	WET/40621		
60141898006	**MW-101_20130402**	SM 4500-S-2 D	WET/40621		
60141898007	**MW-102_20130402**	SM 4500-S-2 D	WET/40621		
60141898008	**MW-204_20130402**	SM 4500-S-2 D	WET/40622		
60141898009	**AT-2_20130403**	SM 4500-S-2 D	WET/40622		
60141898010	**DR-9_20130403**	SM 4500-S-2 D	WET/40622		
60141898012	**GW-3_20130403**	SM 4500-S-2 D	WET/40622		
60141898001	**GW-1_20130403**	EPA 300.0	WETA/24237		
60141898003	**GW-4_20130402**	EPA 300.0	WETA/24237		
60141898004	**GW-5_20130402**	EPA 300.0	WETA/24237		
60141898005	**GW-7_20130402**	EPA 300.0	WETA/24237		
60141898006	**MW-101_20130402**	EPA 300.0	WETA/24255		
60141898007	**MW-102_20130402**	EPA 300.0	WETA/24255		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60141898

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60141898008	**MW-204_20130402**	EPA 300.0	WETA/24255		
60141898009	**AT-2_20130403**	EPA 300.0	WETA/24255		
60141898010	**DR-9_20130403**	EPA 300.0	WETA/24255		
60141898011	**GW-3_20130403**	EPA 300.0	WETA/24237		
60141898001	**GW-1_20130403**	EPA 353.2	WETA/24260		
60141898003	**GW-4_20130402**	EPA 353.2	WETA/24260		
60141898004	**GW-5_20130402**	EPA 353.2	WETA/24260		
60141898005	**GW-7_20130402**	EPA 353.2	WETA/24260		
60141898006	**MW-101_20130402**	EPA 353.2	WETA/24260		
60141898007	**MW-102_20130402**	EPA 353.2	WETA/24260		
60141898008	**MW-204_20130402**	EPA 353.2	WETA/24260		
60141898009	**AT-2_20130403**	EPA 353.2	WETA/24260		
60141898010	**DR-9_20130403**	EPA 353.2	WETA/24260		
60141898012	**GW-3_20130403**	EPA 353.2	WETA/24260		
60141898001	**GW-1_20130403**	SM 4500-CN-E	WETA/24176		
60141898002	**GW-3_20130403**	SM 4500-CN-E	WETA/24176		
60141898003	**GW-4_20130402**	SM 4500-CN-E	WETA/24150		
60141898004	**GW-5_20130402**	SM 4500-CN-E	WETA/24150		
60141898005	**GW-7_20130402**	SM 4500-CN-E	WETA/24150		
60141898006	**MW-101_20130402**	SM 4500-CN-E	WETA/24150		
60141898007	**MW-102_20130402**	SM 4500-CN-E	WETA/24150		
60141898008	**MW-204_20130402**	SM 4500-CN-E	WETA/24176		
60141898009	**AT-2_20130403**	SM 4500-CN-E	WETA/24176		
60141898010	**DR-9_20130403**	SM 4500-CN-E	WETA/24176		
60141898001	**GW-1_20130403**	SM 5310C	WETA/24362		
60141898003	**GW-4_20130402**	SM 5310C	WETA/24362		
60141898004	**GW-5_20130402**	SM 5310C	WETA/24362		
60141898005	**GW-7_20130402**	SM 5310C	WETA/24362		
60141898006	**MW-101_20130402**	SM 5310C	WETA/24362		
60141898007	**MW-102_20130402**	SM 5310C	WETA/24362		
60141898008	**MW-204_20130402**	SM 5310C	WETA/24362		
60141898009	**AT-2_20130403**	SM 5310C	WETA/24362		
60141898010	**DR-9_20130403**	SM 5310C	WETA/24362		
60141898012	**GW-3_20130403**	SM 5310C	WETA/24362		

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MERP/8299 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020

METHOD BLANK: 1414867 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/01/13 10:19	

LABORATORY CONTROL SAMPLE: 1414868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE SAMPLE: 1414871

Parameter	Units	60142948020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.0	80	85-115	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1419192 1419193

Parameter	Units	60142948002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	5.2	97	104	85-115	7	30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MERP/8300 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60142948021, 60142948022, 60142948023

METHOD BLANK: 1414872 Matrix: Water
Associated Lab Samples: 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/30/13 13:56	

LABORATORY CONTROL SAMPLE: 1414873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414874 1414875

Parameter	Units	60142948021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.3	102	104	85-115	3	30	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MERP/8303 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

METHOD BLANK: 1414941 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/13 12:41	

LABORATORY CONTROL SAMPLE: 1414942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE SAMPLE: 1414945

Parameter	Units	60142948016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.3	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1418708 1418709

Parameter	Units	60142948002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.9	4.9	98	98	85-115	.6	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MERP/8308 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1415466 Matrix: Water
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/29/13 14:08	

LABORATORY CONTROL SAMPLE: 1415467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1415468 1415469

Parameter	Units	10225995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.0002 0 mg/L	5	5	4.4	4.5	88	90	85-115	1	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MERP/7280 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015

METHOD BLANK: 1175061 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/24/13 10:01	

LABORATORY CONTROL SAMPLE: 1175062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175063 1175064

Parameter	Units	60142948004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	4.4	4.6	88	92	70-130	5	20	

MATRIX SPIKE SAMPLE: 1175065

Parameter	Units	60142948005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	4.6	91	70-130	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MERP/7281 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1175066 | Matrix: Water
Associated Lab Samples: 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/24/13 10:58	

LABORATORY CONTROL SAMPLE: 1175067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1175068 1175069

Parameter	Units	60142948016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	3.6	4.4	71	88	70-130	20	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/22464 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015

METHOD BLANK: 1177226 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	13.9J	100	05/02/13 10:48	
Magnesium, Dissolved	ug/L	9.6J	50.0	05/02/13 10:48	
Potassium, Dissolved	ug/L	ND	500	05/02/13 10:48	
Sodium, Dissolved	ug/L	110J	500	05/02/13 10:48	

LABORATORY CONTROL SAMPLE: 1177227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9390	94	85-115	
Magnesium, Dissolved	ug/L	10000	9840	98	85-115	
Potassium, Dissolved	ug/L	10000	10600	106	85-115	
Sodium, Dissolved	ug/L	10000	10600	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1177228 1177229

Parameter	Units	60142948001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	56200	10000	10000	64900	67400	88	113	70-130	4	20	
Magnesium, Dissolved	ug/L	8370	10000	10000	17900	18400	95	100	70-130	2	20	
Potassium, Dissolved	ug/L	1180	10000	10000	12000	12100	108	109	70-130	1	20	
Sodium, Dissolved	ug/L	5100	10000	10000	15900	16200	108	112	70-130	2	20	

MATRIX SPIKE SAMPLE: 1177230

Parameter	Units	60142948003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	56400	10000	65400	91	70-130	
Magnesium, Dissolved	ug/L	8360	10000	18100	97	70-130	
Potassium, Dissolved	ug/L	1260	10000	12200	109	70-130	
Sodium, Dissolved	ug/L	5180	10000	16300	111	70-130	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/22466 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1177236 | Matrix: Water
Associated Lab Samples: 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	18.4J	100	05/02/13 12:53	
Magnesium, Dissolved	ug/L	14.8J	50.0	05/02/13 12:53	
Potassium, Dissolved	ug/L	ND	500	05/02/13 12:53	
Sodium, Dissolved	ug/L	62.1J	500	05/02/13 12:53	

LABORATORY CONTROL SAMPLE: 1177237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	9940	99	85-115	
Magnesium, Dissolved	ug/L	10000	10200	102	85-115	
Potassium, Dissolved	ug/L	10000	9930	99	85-115	
Sodium, Dissolved	ug/L	10000	9900	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1177238 1177239

Parameter	Units	60142948016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	231000	10000	10000	247000	250000	152	182	70-130	1	20	M1
Magnesium, Dissolved	ug/L	20600	10000	10000	30400	31000	98	104	70-130	2	20	
Potassium, Dissolved	ug/L	1570	10000	10000	11600	11600	101	101	70-130	0	20	
Sodium, Dissolved	ug/L	10300	10000	10000	21000	21000	107	107	70-130	0	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/38673 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019

METHOD BLANK: 1414902 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	05/04/13 08:07	
Antimony	ug/L	ND	0.50	05/04/13 08:07	
Arsenic	ug/L	ND	0.50	05/04/13 08:07	
Barium	ug/L	ND	0.30	05/04/13 08:07	
Beryllium	ug/L	ND	0.20	05/04/13 08:07	
Cadmium	ug/L	ND	0.080	05/04/13 08:07	
Calcium	ug/L	ND	20.0	05/04/13 08:07	
Chromium	ug/L	ND	0.50	05/04/13 08:07	
Cobalt	ug/L	ND	0.50	05/04/13 08:07	
Copper	ug/L	ND	0.50	05/04/13 08:07	
Iron	ug/L	ND	50.0	05/04/13 08:07	
Lead	ug/L	ND	0.10	05/04/13 08:07	
Magnesium	ug/L	ND	5.0	05/04/13 08:07	
Manganese	ug/L	ND	0.50	05/04/13 08:07	
Molybdenum	ug/L	ND	0.50	05/04/13 08:07	
Nickel	ug/L	ND	0.50	05/04/13 08:07	
Potassium	ug/L	ND	20.0	05/04/13 08:07	
Selenium	ug/L	ND	0.50	05/04/13 08:07	
Silica	ug/L	ND	53.5	04/28/13 14:21	
Silver	ug/L	ND	0.50	05/04/13 08:07	
Sodium	ug/L	ND	50.0	05/04/13 08:07	
Thallium	ug/L	ND	0.10	05/04/13 08:07	
Vanadium	ug/L	ND	0.10	05/04/13 08:07	
Zinc	ug/L	ND	5.0	05/04/13 08:07	

LABORATORY CONTROL SAMPLE: 1414903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	84.4	105	85-115	
Antimony	ug/L	80	78.9	99	85-115	
Arsenic	ug/L	80	82.4	103	85-115	
Barium	ug/L	80	79.4	99	85-115	
Beryllium	ug/L	80	80.4	101	85-115	
Cadmium	ug/L	80	80.3	100	85-115	
Calcium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	80	82.4	103	85-115	
Cobalt	ug/L	80	80.5	101	85-115	
Copper	ug/L	80	80.8	101	85-115	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

LABORATORY CONTROL SAMPLE: 1414903

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	1000	1020	102	85-115	
Lead	ug/L	80	81.2	102	85-115	
Magnesium	ug/L	1000	1020	102	85-115	
Manganese	ug/L	80	80.5	101	85-115	
Molybdenum	ug/L	80	79.9	100	85-115	
Nickel	ug/L	80	82.1	103	85-115	
Potassium	ug/L	1000	1020	102	85-115	
Selenium	ug/L	80	81.3	102	85-115	
Silica	ug/L	2140	2180	102	85-115	
Silver	ug/L	80	79.6	100	85-115	
Sodium	ug/L	1000	1020	102	85-115	
Thallium	ug/L	80	82.8	104	85-115	
Vanadium	ug/L	80	81.2	101	85-115	
Zinc	ug/L	80	80.6	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414904 1414905

Parameter	Units	60142948001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	118	80	80	301	331	229	267	70-130	10	20	M1
Antimony	ug/L	ND	80	80	78.9	79.7	98	100	70-130	1	20	
Arsenic	ug/L	ND	80	80	81.5	83.3	101	104	70-130	2	20	
Barium	ug/L	64.7	80	80	146	147	102	103	70-130	.5	20	
Beryllium	ug/L	ND	80	80	80.0	80.1	100	100	70-130	.2	20	
Cadmium	ug/L	0.46	80	80	79.1	80.6	98	100	70-130	2	20	
Calcium	ug/L	64400	1000	1000	63000	63900	-141	-59	70-130	1	20	E,M1
Chromium	ug/L	0.66	80	80	80.8	81.6	100	101	70-130	.9	20	
Cobalt	ug/L	ND	80	80	77.9	79.8	97	100	70-130	2	20	
Copper	ug/L	1.2	80	80	76.7	79.2	94	97	70-130	3	20	
Iron	ug/L	231	1000	1000	1240	1260	101	103	70-130	2	20	
Lead	ug/L	0.60	80	80	79.6	79.9	99	99	70-130	.4	20	
Magnesium	ug/L	8520	1000	1000	9700	9750	118	123	70-130	.6	20	
Manganese	ug/L	121	80	80	201	204	100	105	70-130	2	20	
Molybdenum	ug/L	1.3	80	80	81.5	81.9	100	101	70-130	.4	20	
Nickel	ug/L	ND	80	80	77.6	79.6	96	99	70-130	3	20	
Potassium	ug/L	1200	1000	1000	2230	2260	104	106	70-130	1	20	
Selenium	ug/L	1.0	80	80	79.8	81.6	98	101	70-130	2	20	
Silica	ug/L	7770	2140	2140	10100	10200	108	115	70-130	1	20	
Silver	ug/L	ND	80	80	75.8	76.6	95	96	70-130	1	20	
Sodium	ug/L	4780	1000	1000	5850	5940	107	116	70-130	1	20	
Thallium	ug/L	ND	80	80	80.8	81.3	101	102	70-130	.6	20	
Vanadium	ug/L	0.31	80	80	79.5	81.4	99	101	70-130	2	20	
Zinc	ug/L	108	80	80	182	187	93	99	70-130	3	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

MATRIX SPIKE SAMPLE: 1415318

Parameter	Units	60142948011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	4930	80	7990	3830	70-130	M1
Antimony	ug/L	ND	80	75.8	94	70-130	
Arsenic	ug/L	48.9	80	134	107	70-130	
Barium	ug/L	60.0	80	168	135	70-130	M1
Beryllium	ug/L	1.0	80	76.8	95	70-130	
Cadmium	ug/L	3.4	80	83.9	101	70-130	
Calcium	ug/L	320000	1000	304000	-1610	70-130	E,M1
Chromium	ug/L	4.0	80	85.4	102	70-130	
Cobalt	ug/L	7.1	80	90.0	104	70-130	
Copper	ug/L	34.4	80	116	102	70-130	
Iron	ug/L	31300	1000	34700	344	70-130	E,M1
Lead	ug/L	66.4	80	151	105	70-130	
Magnesium	ug/L	45100	1000	44800	-22	70-130	E,M1
Manganese	ug/L	7210	80	7650	548	70-130	E,M1
Molybdenum	ug/L	6.5	80	93.3	109	70-130	
Nickel	ug/L	6.1	80	86.3	100	70-130	
Potassium	ug/L	7780	1000	9550	177	70-130	M1
Selenium	ug/L	1.3	80	83.0	102	70-130	
Silica	ug/L	32800	2140	46600	645	70-130	M1
Silver	ug/L	ND	80	74.7	93	70-130	
Sodium	ug/L	5040	1000	6010	97	70-130	
Thallium	ug/L	ND	80	79.6	99	70-130	
Vanadium	ug/L	9.1	80	94.4	107	70-130	
Zinc	ug/L	1230	80	1330	131	70-130	E,M1

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/38674 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1414906 Matrix: Water
Associated Lab Samples: 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	05/02/13 01:32	
Antimony	ug/L	ND	0.50	05/02/13 01:32	
Arsenic	ug/L	ND	0.50	05/02/13 01:32	
Barium	ug/L	ND	0.30	05/02/13 01:32	
Beryllium	ug/L	ND	0.20	05/02/13 01:32	
Cadmium	ug/L	ND	0.080	05/02/13 01:32	
Calcium	ug/L	ND	20.0	05/02/13 01:32	
Chromium	ug/L	ND	0.50	05/02/13 01:32	
Cobalt	ug/L	ND	0.50	05/02/13 01:32	
Copper	ug/L	ND	0.50	05/02/13 01:32	
Iron	ug/L	ND	50.0	05/02/13 01:32	
Lead	ug/L	ND	0.10	05/02/13 01:32	
Magnesium	ug/L	ND	5.0	05/02/13 01:32	
Manganese	ug/L	ND	0.50	05/02/13 01:32	
Molybdenum	ug/L	ND	0.50	05/02/13 01:32	
Nickel	ug/L	ND	0.50	05/02/13 01:32	
Potassium	ug/L	ND	20.0	05/02/13 01:32	
Selenium	ug/L	ND	0.50	05/02/13 01:32	
Silica	ug/L	ND	53.5	05/02/13 20:35	
Silver	ug/L	ND	0.50	05/02/13 01:32	
Sodium	ug/L	ND	50.0	05/02/13 01:32	
Thallium	ug/L	ND	0.10	05/02/13 01:32	
Vanadium	ug/L	ND	0.10	05/02/13 01:32	
Zinc	ug/L	ND	5.0	05/02/13 01:32	

LABORATORY CONTROL SAMPLE: 1414907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	80.7	101	85-115	
Antimony	ug/L	80	81.4	102	85-115	
Arsenic	ug/L	80	81.1	101	85-115	
Barium	ug/L	80	80.0	100	85-115	
Beryllium	ug/L	80	83.4	104	85-115	
Cadmium	ug/L	80	83.3	104	85-115	
Calcium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	80	79.3	99	85-115	
Cobalt	ug/L	80	79.1	99	85-115	
Copper	ug/L	80	82.2	103	85-115	
Iron	ug/L	1000	1030	103	85-115	
Lead	ug/L	80	81.7	102	85-115	
Magnesium	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

LABORATORY CONTROL SAMPLE: 1414907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	80	80.4	100	85-115	
Molybdenum	ug/L	80	79.5	99	85-115	
Nickel	ug/L	80	81.8	102	85-115	
Potassium	ug/L	1000	996	100	85-115	
Selenium	ug/L	80	81.8	102	85-115	
Silica	ug/L	2140	2240	105	85-115	
Silver	ug/L	80	83.5	104	85-115	
Sodium	ug/L	1000	984	98	85-115	
Thallium	ug/L	80	83.5	104	85-115	
Vanadium	ug/L	80	79.8	100	85-115	
Zinc	ug/L	80	81.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414908 1414909

Parameter	Units	60142948020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	238	80	80	548	584	388	434	70-130	6	20	M1
Antimony	ug/L	ND	80	80	84.8	84.6	106	106	70-130	.2	20	
Arsenic	ug/L	ND	80	80	85.2	85.3	106	106	70-130	.05	20	
Barium	ug/L	66.5	80	80	155	158	110	114	70-130	2	20	
Beryllium	ug/L	ND	80	80	87.6	88.3	109	110	70-130	.8	20	
Cadmium	ug/L	ND	80	80	86.6	87.0	108	109	70-130	.5	20	
Calcium	ug/L	46300	1000	1000	50000	50600	363	423	70-130	1	20	E,M1
Chromium	ug/L	0.78	80	80	84.0	84.5	104	105	70-130	.7	20	
Cobalt	ug/L	ND	80	80	82.4	83.8	103	105	70-130	2	20	
Copper	ug/L	1.3	80	80	85.6	87.0	105	107	70-130	2	20	
Iron	ug/L	538	1000	1000	1660	1690	112	115	70-130	2	20	
Lead	ug/L	0.50	80	80	84.6	85.3	105	106	70-130	.8	20	
Magnesium	ug/L	6970	1000	1000	8380	8540	141	157	70-130	2	20	M1
Manganese	ug/L	93.8	80	80	181	184	109	113	70-130	2	20	
Molybdenum	ug/L	1.1	80	80	85.3	85.4	105	105	70-130	.2	20	
Nickel	ug/L	0.92	80	80	85.4	86.5	106	107	70-130	1	20	
Potassium	ug/L	876	1000	1000	2010	2040	113	116	70-130	1	20	
Selenium	ug/L	0.95	80	80	85.6	86.9	106	107	70-130	1	20	
Silica	ug/L	6840	2140	2140	10200	10500	159	169	70-130	2	20	E,M1
Silver	ug/L	ND	80	80	86.3	87.2	108	109	70-130	1	20	
Sodium	ug/L	3810	1000	1000	4980	5120	117	131	70-130	3	20	M1
Thallium	ug/L	ND	80	80	84.4	85.5	106	107	70-130	1	20	
Vanadium	ug/L	0.60	80	80	84.5	85.9	105	107	70-130	2	20	
Zinc	ug/L	8.9	80	80	94.1	94.8	107	107	70-130	.7	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/38676 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019

METHOD BLANK: 1414914 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	05/03/13 15:38	
Antimony, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Arsenic, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Barium, Dissolved	ug/L	ND	0.30	05/03/13 15:38	
Beryllium, Dissolved	ug/L	ND	0.20	05/03/13 15:38	
Cadmium, Dissolved	ug/L	ND	0.080	05/03/13 15:38	
Calcium, Dissolved	ug/L	ND	20.0	05/03/13 15:38	
Chromium, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Cobalt, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Copper, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Iron, Dissolved	ug/L	ND	50.0	05/03/13 15:38	
Lead, Dissolved	ug/L	ND	0.10	05/03/13 15:38	
Magnesium, Dissolved	ug/L	ND	5.0	05/03/13 15:38	
Manganese, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Molybdenum, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Nickel, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Potassium, Dissolved	ug/L	ND	20.0	05/03/13 15:38	
Selenium, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Silver, Dissolved	ug/L	ND	0.50	05/03/13 15:38	
Sodium, Dissolved	ug/L	ND	50.0	05/03/13 15:38	
Thallium, Dissolved	ug/L	ND	0.10	05/03/13 15:38	
Vanadium, Dissolved	ug/L	ND	0.10	05/03/13 15:38	
Zinc, Dissolved	ug/L	ND	5.0	05/03/13 15:38	

LABORATORY CONTROL SAMPLE: 1414915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	77.6	97	85-115	
Antimony, Dissolved	ug/L	80	76.2	95	85-115	
Arsenic, Dissolved	ug/L	80	74.8	94	85-115	
Barium, Dissolved	ug/L	80	77.9	97	85-115	
Beryllium, Dissolved	ug/L	80	79.6	100	85-115	
Cadmium, Dissolved	ug/L	80	81.0	101	85-115	
Calcium, Dissolved	ug/L	1000	984	98	85-115	
Chromium, Dissolved	ug/L	80	77.6	97	85-115	
Cobalt, Dissolved	ug/L	80	78.6	98	85-115	
Copper, Dissolved	ug/L	80	80.9	101	85-115	
Iron, Dissolved	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

LABORATORY CONTROL SAMPLE: 1414915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	80	80.0	100	85-115	
Magnesium, Dissolved	ug/L	1000	1010	101	85-115	
Manganese, Dissolved	ug/L	80	77.7	97	85-115	
Molybdenum, Dissolved	ug/L	80	76.9	96	85-115	
Nickel, Dissolved	ug/L	80	81.6	102	85-115	
Potassium, Dissolved	ug/L	1000	974	97	85-115	
Selenium, Dissolved	ug/L	80	77.9	97	85-115	
Silver, Dissolved	ug/L	80	82.0	102	85-115	
Sodium, Dissolved	ug/L	1000	956	96	85-115	
Thallium, Dissolved	ug/L	80	78.0	98	85-115	
Vanadium, Dissolved	ug/L	80	76.8	96	85-115	
Zinc, Dissolved	ug/L	80	78.2	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414916 1414917

Parameter	Units	60142948001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	4.7	80	80	81.7	82.1	96	97	70-130	.5	20	
Antimony, Dissolved	ug/L	ND	80	80	80.4	78.9	100	99	70-130	2	20	
Arsenic, Dissolved	ug/L	ND	80	80	82.4	81.8	103	102	70-130	.7	20	
Barium, Dissolved	ug/L	63.0	80	80	141	138	98	94	70-130	2	20	
Beryllium, Dissolved	ug/L	ND	80	80	74.5	73.8	93	92	70-130	1	20	
Cadmium, Dissolved	ug/L	0.42	80	80	77.6	78.9	97	98	70-130	2	20	
Calcium, Dissolved	ug/L	74300	1000	1000	75400	74400	106	15	70-130	1	20	E,M1
Chromium, Dissolved	ug/L	ND	80	80	80.6	79.8	100	99	70-130	.9	20	
Cobalt, Dissolved	ug/L	ND	80	80	79.3	77.7	99	97	70-130	2	20	
Copper, Dissolved	ug/L	1.2	80	80	79.1	79.2	97	97	70-130	.1	20	
Iron, Dissolved	ug/L	ND	1000	1000	1020	993	100	98	70-130	2	20	
Lead, Dissolved	ug/L	ND	80	80	72.6	71.4	91	89	70-130	2	20	
Magnesium, Dissolved	ug/L	8810	1000	1000	9600	9360	79	55	70-130	2	20	M1
Manganese, Dissolved	ug/L	113	80	80	194	194	101	101	70-130	.05	20	
Molybdenum, Dissolved	ug/L	1.3	80	80	83.5	84.2	103	104	70-130	.8	20	
Nickel, Dissolved	ug/L	0.82	80	80	78.9	78.8	98	97	70-130	.2	20	
Potassium, Dissolved	ug/L	1190	1000	1000	2270	2180	107	98	70-130	4	20	
Selenium, Dissolved	ug/L	0.91	80	80	79.2	79.7	98	98	70-130	.6	20	
Silver, Dissolved	ug/L	ND	80	80	85.2	81.6	107	102	70-130	4	20	
Sodium, Dissolved	ug/L	4680	1000	1000	5800	5710	112	102	70-130	2	20	
Thallium, Dissolved	ug/L	ND	80	80	74.8	73.3	93	92	70-130	2	20	
Vanadium, Dissolved	ug/L	ND	80	80	81.8	81.8	102	102	70-130	.01	20	
Zinc, Dissolved	ug/L	99.5	80	80	174	176	93	95	70-130	1	20	

MATRIX SPIKE SAMPLE: 1415316

Parameter	Units	60142948011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	372	80	438	82	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

MATRIX SPIKE SAMPLE: 1415316

Parameter	Units	60142948011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	ug/L	ND	80	79.4	99	70-130	
Arsenic, Dissolved	ug/L	17.4	80	108	114	70-130	
Barium, Dissolved	ug/L	18.4	80	95.2	96	70-130	
Beryllium, Dissolved	ug/L	0.57	80	76.4	95	70-130	
Cadmium, Dissolved	ug/L	ND	80	76.8	96	70-130	
Calcium, Dissolved	ug/L	369000	1000	359000	-920	70-130	E,M1
Chromium, Dissolved	ug/L	ND	80	81.0	101	70-130	
Cobalt, Dissolved	ug/L	3.1	80	85.3	103	70-130	
Copper, Dissolved	ug/L	ND	80	80.7	100	70-130	
Iron, Dissolved	ug/L	24300	1000	25200	86	70-130	E
Lead, Dissolved	ug/L	0.16	80	67.8	85	70-130	
Magnesium, Dissolved	ug/L	43600	1000	39900	-369	70-130	E,M1
Manganese, Dissolved	ug/L	7630	80	7590	-52	70-130	E,M1
Molybdenum, Dissolved	ug/L	5.9	80	94.1	110	70-130	
Nickel, Dissolved	ug/L	1.2	80	84.3	104	70-130	
Potassium, Dissolved	ug/L	6650	1000	7800	115	70-130	
Selenium, Dissolved	ug/L	0.65	80	78.8	98	70-130	
Silver, Dissolved	ug/L	ND	80	79.6	99	70-130	
Sodium, Dissolved	ug/L	4560	1000	5380	83	70-130	
Thallium, Dissolved	ug/L	ND	80	70.8	88	70-130	
Vanadium, Dissolved	ug/L	ND	80	86.1	108	70-130	
Zinc, Dissolved	ug/L	340	80	402	78	70-130	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/38677 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1414918 Matrix: Water
Associated Lab Samples: 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	05/02/13 03:31	
Antimony, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Arsenic, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Barium, Dissolved	ug/L	ND	0.30	05/02/13 03:31	
Beryllium, Dissolved	ug/L	ND	0.20	05/02/13 03:31	
Cadmium, Dissolved	ug/L	ND	0.080	05/02/13 03:31	
Calcium, Dissolved	ug/L	ND	20.0	05/02/13 03:31	
Chromium, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Cobalt, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Copper, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Iron, Dissolved	ug/L	ND	50.0	05/02/13 03:31	
Lead, Dissolved	ug/L	ND	0.10	05/02/13 03:31	
Magnesium, Dissolved	ug/L	ND	5.0	05/02/13 03:31	
Manganese, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Molybdenum, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Nickel, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Potassium, Dissolved	ug/L	ND	20.0	05/02/13 03:31	
Selenium, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Silver, Dissolved	ug/L	ND	0.50	05/02/13 03:31	
Sodium, Dissolved	ug/L	ND	50.0	05/02/13 03:31	
Thallium, Dissolved	ug/L	ND	0.10	05/02/13 03:31	
Vanadium, Dissolved	ug/L	ND	0.10	05/02/13 03:31	
Zinc, Dissolved	ug/L	ND	5.0	05/02/13 03:31	

LABORATORY CONTROL SAMPLE: 1414919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	80.5	101	85-115	
Antimony, Dissolved	ug/L	80	80.6	101	85-115	
Arsenic, Dissolved	ug/L	80	80.2	100	85-115	
Barium, Dissolved	ug/L	80	81.1	101	85-115	
Beryllium, Dissolved	ug/L	80	85.1	106	85-115	
Cadmium, Dissolved	ug/L	80	83.3	104	85-115	
Calcium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	80	80.0	100	85-115	
Cobalt, Dissolved	ug/L	80	78.8	98	85-115	
Copper, Dissolved	ug/L	80	81.6	102	85-115	
Iron, Dissolved	ug/L	1000	1030	103	85-115	
Lead, Dissolved	ug/L	80	82.3	103	85-115	
Magnesium, Dissolved	ug/L	1000	1010	101	85-115	
Manganese, Dissolved	ug/L	80	80.6	101	85-115	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

LABORATORY CONTROL SAMPLE: 1414919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum, Dissolved	ug/L	80	78.5	98	85-115	
Nickel, Dissolved	ug/L	80	81.0	101	85-115	
Potassium, Dissolved	ug/L	1000	999	100	85-115	
Selenium, Dissolved	ug/L	80	80.6	101	85-115	
Silver, Dissolved	ug/L	80	83.0	104	85-115	
Sodium, Dissolved	ug/L	1000	982	98	85-115	
Thallium, Dissolved	ug/L	80	83.6	105	85-115	
Vanadium, Dissolved	ug/L	80	80.0	100	85-115	
Zinc, Dissolved	ug/L	80	81.8	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1414920 1414921

Parameter	Units	60142948020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	21.8	80	80	116	113	117	114	70-130	3	20	
Antimony, Dissolved	ug/L	ND	80	80	81.3	80.6	101	101	70-130	.9	20	
Arsenic, Dissolved	ug/L	ND	80	80	81.1	81.2	101	101	70-130	.1	20	
Barium, Dissolved	ug/L	63.4	80	80	146	146	103	103	70-130	.3	20	
Beryllium, Dissolved	ug/L	ND	80	80	84.8	84.9	106	106	70-130	.1	20	
Cadmium, Dissolved	ug/L	ND	80	80	83.6	83.1	104	104	70-130	.5	20	
Calcium, Dissolved	ug/L	46800	1000	1000	47800	47600	109	85	70-130	.5	20	E
Chromium, Dissolved	ug/L	ND	80	80	80.6	80.2	100	100	70-130	.5	20	
Cobalt, Dissolved	ug/L	ND	80	80	79.3	78.9	99	98	70-130	.5	20	
Copper, Dissolved	ug/L	0.97	80	80	82.0	82.5	101	102	70-130	.7	20	
Iron, Dissolved	ug/L	ND	1000	1000	1080	1060	105	103	70-130	2	20	
Lead, Dissolved	ug/L	ND	80	80	82.2	81.7	103	102	70-130	.6	20	
Magnesium, Dissolved	ug/L	6830	1000	1000	7990	7990	116	116	70-130	.03	20	
Manganese, Dissolved	ug/L	71.8	80	80	155	154	104	102	70-130	1	20	
Molybdenum, Dissolved	ug/L	0.94	80	80	81.6	80.7	101	100	70-130	1	20	
Nickel, Dissolved	ug/L	0.70	80	80	81.7	82.5	101	102	70-130	1	20	
Potassium, Dissolved	ug/L	822	1000	1000	1840	1850	102	102	70-130	.3	20	
Selenium, Dissolved	ug/L	1.0	80	80	82.1	84.5	101	104	70-130	3	20	
Silver, Dissolved	ug/L	ND	80	80	83.4	82.7	104	103	70-130	.8	20	
Sodium, Dissolved	ug/L	3820	1000	1000	4880	4850	106	103	70-130	.7	20	
Thallium, Dissolved	ug/L	ND	80	80	82.5	81.8	103	102	70-130	.9	20	
Vanadium, Dissolved	ug/L	0.11	80	80	81.7	80.8	102	101	70-130	1	20	
Zinc, Dissolved	ug/L	ND	80	80	86.4	86.0	102	101	70-130	.5	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/22465 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015

METHOD BLANK: 1177231 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	04/30/13 10:58	
Antimony, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Arsenic, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Barium, Dissolved	ug/L	0.37J	1.0	04/30/13 10:58	
Beryllium, Dissolved	ug/L	ND	0.50	05/01/13 13:39	
Cadmium, Dissolved	ug/L	ND	0.50	04/30/13 10:58	
Chromium, Dissolved	ug/L	0.16J	1.0	04/30/13 10:58	
Cobalt, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Copper, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Iron, Dissolved	ug/L	ND	50.0	04/30/13 10:58	
Lead, Dissolved	ug/L	0.10J	1.0	04/30/13 10:58	
Manganese, Dissolved	ug/L	0.35J	1.0	04/30/13 10:58	
Molybdenum, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Nickel, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Selenium, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Silver, Dissolved	ug/L	ND	0.50	04/30/13 10:58	
Thallium, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Vanadium, Dissolved	ug/L	ND	1.0	04/30/13 10:58	
Zinc, Dissolved	ug/L	ND	10.0	04/30/13 10:58	

LABORATORY CONTROL SAMPLE: 1177232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	968	97	85-115	
Antimony, Dissolved	ug/L	40	39.8	99	85-115	
Arsenic, Dissolved	ug/L	40	40.5	101	85-115	
Barium, Dissolved	ug/L	40	39.8	100	85-115	
Beryllium, Dissolved	ug/L	40	41.5	104	85-115	
Cadmium, Dissolved	ug/L	40	40.1	100	85-115	
Chromium, Dissolved	ug/L	40	41.3	103	85-115	
Cobalt, Dissolved	ug/L	40	40.5	101	85-115	
Copper, Dissolved	ug/L	40	40.9	102	85-115	
Iron, Dissolved	ug/L	1000	996	100	85-115	
Lead, Dissolved	ug/L	40	39.8	100	85-115	
Manganese, Dissolved	ug/L	40	40.6	101	85-115	
Molybdenum, Dissolved	ug/L	40	40.3	101	85-115	
Nickel, Dissolved	ug/L	40	41.2	103	85-115	
Selenium, Dissolved	ug/L	40	40.6	102	85-115	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

LABORATORY CONTROL SAMPLE: 1177232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	20	19.8	99	85-115	
Thallium, Dissolved	ug/L	40	38.1	95	85-115	
Vanadium, Dissolved	ug/L	40	40.9	102	85-115	
Zinc, Dissolved	ug/L	100	107	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1177233 1177234

Parameter	Units	60142948002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	29.7J	1000	1000	976	968	95	94	70-130	1	20	
Antimony, Dissolved	ug/L	0.073J	40	40	40.1	40.3	100	101	70-130	1	20	
Arsenic, Dissolved	ug/L	0.17J	40	40	40.9	41.1	102	102	70-130	0	20	
Barium, Dissolved	ug/L	77.4	40	40	118	120	102	106	70-130	1	20	
Beryllium, Dissolved	ug/L	ND	40	40	39.4	39.8	98	99	70-130	1	20	
Cadmium, Dissolved	ug/L	0.30J	40	40	40.2	40.2	100	100	70-130	0	20	
Chromium, Dissolved	ug/L	0.46J	40	40	41.0	40.8	101	101	70-130	1	20	
Cobalt, Dissolved	ug/L	0.12J	40	40	39.2	38.8	98	97	70-130	1	20	
Copper, Dissolved	ug/L	1.9	40	40	40.8	40.3	97	96	70-130	1	20	
Iron, Dissolved	ug/L	119	1000	1000	1100	1090	98	97	70-130	1	20	
Lead, Dissolved	ug/L	6.3	40	40	45.3	45.1	98	97	70-130	0	20	
Manganese, Dissolved	ug/L	70.4	40	40	111	112	102	105	70-130	1	20	
Molybdenum, Dissolved	ug/L	1.0	40	40	42.9	43.2	105	105	70-130	1	20	
Nickel, Dissolved	ug/L	0.57J	40	40	39.8	39.1	98	96	70-130	2	20	
Selenium, Dissolved	ug/L	0.77J	40	40	40.6	40.7	100	100	70-130	0	20	
Silver, Dissolved	ug/L	ND	20	20	19.4	19.5	97	97	70-130	1	20	
Thallium, Dissolved	ug/L	0.023J	40	40	37.6	37.3	94	93	70-130	1	20	
Vanadium, Dissolved	ug/L	ND	40	40	41.1	40.5	102	101	70-130	2	20	
Zinc, Dissolved	ug/L	80.4	100	100	183	184	103	103	70-130	0	20	

MATRIX SPIKE SAMPLE: 1177235

Parameter	Units	60142948004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4900	1000	5540	64	70-130	M1
Antimony, Dissolved	ug/L	0.21J	40	41.5	103	70-130	
Arsenic, Dissolved	ug/L	209	40	243	87	70-130	
Barium, Dissolved	ug/L	15.5	40	56.4	102	70-130	
Beryllium, Dissolved	ug/L	2.0	40	31.0	73	70-130	
Cadmium, Dissolved	ug/L	7.4	40	48.5	103	70-130	
Chromium, Dissolved	ug/L	5.2	40	44.8	99	70-130	
Cobalt, Dissolved	ug/L	9.0	40	47.7	97	70-130	
Copper, Dissolved	ug/L	147	40	180	83	70-130	
Iron, Dissolved	ug/L	48700	1000	47900	-81	70-130	M1
Lead, Dissolved	ug/L	1920	40	1900	-52	70-130	M1
Manganese, Dissolved	ug/L	8450	40	8130	-805	70-130	M6
Molybdenum, Dissolved	ug/L	3.5	40	48.2	112	70-130	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

MATRIX SPIKE SAMPLE: 1177235

Parameter	Units	60142948004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nickel, Dissolved	ug/L	10.2	40	48.3	95	70-130	
Selenium, Dissolved	ug/L	1.6	40	44.4	107	70-130	
Silver, Dissolved	ug/L	ND	20	18.9	94	70-130	
Thallium, Dissolved	ug/L	0.39J	40	41.3	102	70-130	
Vanadium, Dissolved	ug/L	8.0	40	47.4	99	70-130	
Zinc, Dissolved	ug/L	6780	100	6600	-181	70-130	M1

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MPRP/22520 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1179393 | Matrix: Water
Associated Lab Samples: 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	05/02/13 14:23	
Antimony, Dissolved	ug/L	0.17J	1.0	05/02/13 14:23	
Arsenic, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Barium, Dissolved	ug/L	0.32J	1.0	05/02/13 14:23	
Beryllium, Dissolved	ug/L	ND	0.50	05/02/13 14:23	
Cadmium, Dissolved	ug/L	ND	0.50	05/02/13 14:23	
Chromium, Dissolved	ug/L	0.85J	1.0	05/02/13 14:23	
Cobalt, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Copper, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Iron, Dissolved	ug/L	10.1J	50.0	05/02/13 14:23	
Lead, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Manganese, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Molybdenum, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Nickel, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Selenium, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Silver, Dissolved	ug/L	ND	0.50	05/02/13 14:23	
Thallium, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Vanadium, Dissolved	ug/L	ND	1.0	05/02/13 14:23	
Zinc, Dissolved	ug/L	ND	10.0	05/02/13 14:23	

LABORATORY CONTROL SAMPLE: 1179394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1000	950	95	85-115	
Antimony, Dissolved	ug/L	40	39.0	98	85-115	
Arsenic, Dissolved	ug/L	40	40.3	101	85-115	
Barium, Dissolved	ug/L	40	38.5	96	85-115	
Beryllium, Dissolved	ug/L	40	38.7	97	85-115	
Cadmium, Dissolved	ug/L	40	39.3	98	85-115	
Chromium, Dissolved	ug/L	40	41.4	103	85-115	
Cobalt, Dissolved	ug/L	40	40.3	101	85-115	
Copper, Dissolved	ug/L	40	40.7	102	85-115	
Iron, Dissolved	ug/L	1000	995	99	85-115	
Lead, Dissolved	ug/L	40	41.0	103	85-115	
Manganese, Dissolved	ug/L	40	40.7	102	85-115	
Molybdenum, Dissolved	ug/L	40	40.2	100	85-115	
Nickel, Dissolved	ug/L	40	41.0	102	85-115	
Selenium, Dissolved	ug/L	40	39.6	99	85-115	
Silver, Dissolved	ug/L	20	19.4	97	85-115	
Thallium, Dissolved	ug/L	40	39.6	99	85-115	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

LABORATORY CONTROL SAMPLE: 1179394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	40.5	101	85-115	
Zinc, Dissolved	ug/L	100	106	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1179395 1179396

Parameter	Units	60142948020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	56.0	1000	1000	983	981	93	93	70-130	0	20	
Antimony, Dissolved	ug/L	0.24J	40	40	39.1	38.9	97	97	70-130	0	20	
Arsenic, Dissolved	ug/L	0.17J	40	40	39.8	40.1	99	100	70-130	1	20	
Barium, Dissolved	ug/L	58.6	40	40	99.7	99.4	103	102	70-130	0	20	
Beryllium, Dissolved	ug/L	ND	40	40	36.1	35.8	90	89	70-130	1	20	
Cadmium, Dissolved	ug/L	ND	40	40	39.0	39.1	97	97	70-130	0	20	
Chromium, Dissolved	ug/L	1.6	40	40	42.0	42.2	101	101	70-130	0	20	
Cobalt, Dissolved	ug/L	0.14J	40	40	39.5	39.6	98	99	70-130	0	20	
Copper, Dissolved	ug/L	0.73J	40	40	40.2	40.4	99	99	70-130	0	20	
Iron, Dissolved	ug/L	283	1000	1000	1260	1260	97	98	70-130	0	20	
Lead, Dissolved	ug/L	0.33J	40	40	41.2	41.2	102	102	70-130	0	20	
Manganese, Dissolved	ug/L	94.7	40	40	136	139	104	110	70-130	2	20	
Molybdenum, Dissolved	ug/L	0.81J	40	40	39.9	40.1	98	98	70-130	0	20	
Nickel, Dissolved	ug/L	1.0	40	40	40.4	41.3	98	101	70-130	2	20	
Selenium, Dissolved	ug/L	0.70J	40	40	38.7	38.6	95	95	70-130	0	20	
Silver, Dissolved	ug/L	ND	20	20	19.2	19.2	96	96	70-130	0	20	
Thallium, Dissolved	ug/L	ND	40	40	40.1	40.4	100	101	70-130	1	20	
Vanadium, Dissolved	ug/L	ND	40	40	40.9	41.0	102	102	70-130	0	20	
Zinc, Dissolved	ug/L	23.5	100	100	125	127	101	104	70-130	2	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MT/11793 | Analysis Method: SM 2510B
QC Batch Method: SM 2510B | Analysis Description: 2510B Specific Conductance

Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020

METHOD BLANK: 1415162 | Matrix: Water

Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	04/24/13 13:29	

LABORATORY CONTROL SAMPLE: 1415163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	966	97	90-110	

SAMPLE DUPLICATE: 1415164

Parameter	Units	60142948006 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	3950	4060	3	20	

SAMPLE DUPLICATE: 1415165

Parameter	Units	60142948010 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1690	1710	1	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: MT/11794 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60142948021, 60142948022, 60142948023

METHOD BLANK: 1415169 Matrix: Water
Associated Lab Samples: 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	04/24/13 16:45	

LABORATORY CONTROL SAMPLE: 1415170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	953	95	90-110	

SAMPLE DUPLICATE: 1415171

Parameter	Units	60142948022 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	273	298	9	20	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40978 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60142948001, 60142948002, 60142948003

METHOD BLANK: 1176617 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	04/27/13 07:30	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	04/27/13 07:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	04/27/13 07:30	

LABORATORY CONTROL SAMPLE: 1176618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	471	94	90-110	

SAMPLE DUPLICATE: 1176621

Parameter	Units	60141914002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	H1
Alkalinity, Total as CaCO3	mg/L	276	276	0	10	H1
Alkalinity,Bicarbonate (CaCO3)	mg/L	276	276	0	10	H1

SAMPLE DUPLICATE: 1176622

Parameter	Units	60142913002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	H1
Alkalinity, Total as CaCO3	mg/L	162	160	1	10	H1
Alkalinity,Bicarbonate (CaCO3)	mg/L	162	160	1	10	H1

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40996 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60142948004, 60142948005, 60142948006

METHOD BLANK: 1177675 Matrix: Water
Associated Lab Samples: 60142948004, 60142948005, 60142948006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	04/29/13 08:00	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	04/29/13 08:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	04/29/13 08:00	

LABORATORY CONTROL SAMPLE: 1177676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 1177679

Parameter	Units	60143351002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	703	707	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	703	707	1	10	

SAMPLE DUPLICATE: 1177681

Parameter	Units	60143351003 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	1190	1200	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	1190	1200	1	10	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/41012 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1178049 Matrix: Water
Associated Lab Samples: 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	04/29/13 13:00	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	04/29/13 13:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	04/29/13 13:00	

LABORATORY CONTROL SAMPLE: 1178050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	456	91	90-110	

SAMPLE DUPLICATE: 1178053

Parameter	Units	60142866001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	498	494	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	490	486	1	10	

SAMPLE DUPLICATE: 1178054

Parameter	Units	60142948012 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	81.7	85.5	5	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	81.7	85.5	5	10	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40924 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

METHOD BLANK: 1174707 | Matrix: Water

Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	04/23/13 10:32	

LABORATORY CONTROL SAMPLE: 1174708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	957	96	80-120	

SAMPLE DUPLICATE: 1174709

Parameter	Units	60142948001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	232	231	0	17	

SAMPLE DUPLICATE: 1174710

Parameter	Units	60142948010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1510	1520	0	17	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40975 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1176200 | Matrix: Water
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	04/25/13 12:07	

LABORATORY CONTROL SAMPLE: 1176201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	995	100	80-120	

SAMPLE DUPLICATE: 1176202

Parameter	Units	60142911001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	312	312	0	17	

SAMPLE DUPLICATE: 1176203

Parameter	Units	60142948019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	229	239	4	17	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40904 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006

METHOD BLANK: 1174435 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/22/13 17:33	

SAMPLE DUPLICATE: 1174436

Parameter	Units	60143020001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	45.7	45.7	0	25	

SAMPLE DUPLICATE: 1174437

Parameter	Units	60143019001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	8.0	0	25	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40954 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016

METHOD BLANK: 1175478 Matrix: Water
Associated Lab Samples: 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/24/13 11:21	

SAMPLE DUPLICATE: 1175479

Parameter	Units	60142870001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0	ND		25	

SAMPLE DUPLICATE: 1175480

Parameter	Units	60142948007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	816	820	0	25	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40955 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60142948017

METHOD BLANK: 1175481 | Matrix: Water
Associated Lab Samples: 60142948017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/24/13 11:31	

SAMPLE DUPLICATE: 1175482

Parameter	Units	60142948017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	232	234	1	25	

SAMPLE DUPLICATE: 1175483

Parameter	Units	60142836001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	67.0	67.0	0	25	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40973 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60142948018, 60142948019

METHOD BLANK: 1176177 | Matrix: Water
Associated Lab Samples: 60142948018, 60142948019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/25/13 12:26	

SAMPLE DUPLICATE: 1176178

Parameter	Units	60142893001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1176179

Parameter	Units	60142906003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	538	534	1	25	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40974 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1176192 | Matrix: Water
Associated Lab Samples: 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/25/13 12:36	

SAMPLE DUPLICATE: 1176193

Parameter	Units	60142948020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	12.0	0	25	

SAMPLE DUPLICATE: 1176194

Parameter	Units	60143014002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	98.7	103	4	25	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40920 | Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D | Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

METHOD BLANK: 1174578 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	04/23/13 16:14	

LABORATORY CONTROL SAMPLE: 1174579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	105	80-120	

MATRIX SPIKE SAMPLE: 1174580

Parameter	Units	60142948001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.53	107	75-125	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WET/40950 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1175223 Matrix: Water
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	04/24/13 15:10	

LABORATORY CONTROL SAMPLE: 1175224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 1175225

Parameter	Units	60143049005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.42	83	75-125	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24467 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007

METHOD BLANK: 1178211 Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/30/13 09:10	
Sulfate	mg/L	ND	1.0	04/30/13 09:10	

METHOD BLANK: 1179131 Matrix: Water
Associated Lab Samples: 60142948006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	05/02/13 10:38	

LABORATORY CONTROL SAMPLE: 1178212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.0	100	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

LABORATORY CONTROL SAMPLE: 1179132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178213 1178214

Parameter	Units	60142948001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.7	5	5	8.5	8.5	95	95	64-118	0	12	
Sulfate	mg/L	83.5	50	50	119	131	72	95	61-119	9	10	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24476 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1178451 Matrix: Water
Associated Lab Samples: 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	04/30/13 21:51	

METHOD BLANK: 1179144 Matrix: Water
Associated Lab Samples: 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	05/01/13 10:18	

LABORATORY CONTROL SAMPLE: 1178452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	101	90-110	

LABORATORY CONTROL SAMPLE: 1179145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.8	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178453 1178454

Parameter	Units	60142948008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	5	5	6.1	6.3	87	93	64-118	5	12	
Sulfate	mg/L	930	500	500	1330	1330	80	81	61-119	0	10	

MATRIX SPIKE SAMPLE: 1178455

Parameter	Units	60142948017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	4.3	5	8.0	74	64-118	
Sulfate	mg/L	3080	2500	5300	89	61-119	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24437 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013

METHOD BLANK: 1176893 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	04/26/13 12:05	

LABORATORY CONTROL SAMPLE: 1176894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1176895

Parameter	Units	60142786001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	101	200	308	104	90-110	

MATRIX SPIKE SAMPLE: 1176897

Parameter	Units	60142787001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	63.2	40	102	96	90-110	

SAMPLE DUPLICATE: 1176896

Parameter	Units	60142786002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	51.4	52.1	1	13	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24438 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1176898 | Matrix: Water
Associated Lab Samples: 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	04/26/13 12:30	

LABORATORY CONTROL SAMPLE: 1176899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1176900

Parameter	Units	60142948014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1176902

Parameter	Units	60142948016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.9	96	90-110	

SAMPLE DUPLICATE: 1176901

Parameter	Units	60142948015 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	ND		13	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24398 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

METHOD BLANK: 1175282 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010, 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	04/24/13 14:08	

LABORATORY CONTROL SAMPLE: 1175283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	106	69-126	

MATRIX SPIKE SAMPLE: 1175284

Parameter	Units	60143093001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.026	26	41-136	M1

MATRIX SPIKE SAMPLE: 1175285

Parameter	Units	60142948004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.10	100	41-136	

SAMPLE DUPLICATE: 1175286

Parameter	Units	60142948011 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24399 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1175287 | Matrix: Water
Associated Lab Samples: 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	04/24/13 14:40	

LABORATORY CONTROL SAMPLE: 1175288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	106	69-126	

MATRIX SPIKE SAMPLE: 1175289

Parameter	Units	60142948018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.040	.1	0.11	65	41-136	

SAMPLE DUPLICATE: 1175290

Parameter	Units	60142948019 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	ND	ND		26	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24503 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010

METHOD BLANK: 1179413 | Matrix: Water
Associated Lab Samples: 60142948001, 60142948002, 60142948003, 60142948004, 60142948005, 60142948006, 60142948007, 60142948008, 60142948009, 60142948010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/02/13 08:42	

LABORATORY CONTROL SAMPLE: 1179414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.4	107	80-120	

MATRIX SPIKE SAMPLE: 1179415

Parameter	Units	60142948001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.2	5	7.2	100	80-120	

SAMPLE DUPLICATE: 1179416

Parameter	Units	60142948002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.2	2.1	4	25	

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QUALITY CONTROL DATA

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

QC Batch: WETA/24535 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

METHOD BLANK: 1180374 | Matrix: Water
Associated Lab Samples: 60142948011, 60142948012, 60142948013, 60142948014, 60142948015, 60142948016, 60142948017, 60142948018, 60142948019, 60142948020, 60142948021, 60142948022, 60142948023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/03/13 08:44	

LABORATORY CONTROL SAMPLE: 1180375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.1	102	80-120	

MATRIX SPIKE SAMPLE: 1180376

Parameter	Units	60142948011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.9	5	7.0	101	80-120	

SAMPLE DUPLICATE: 1180377

Parameter	Units	60142948012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.5	1.2	19	25	

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QUALIFIERS

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948001	**DR-4 SW_20130416**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948002	**DR-G_20130416**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948004	**MW-5 DEEP_20130416**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948005	**GW-6_20130416**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948006	**MW-5 SHALLOW_20130416**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948007	**P13-103_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948008	**EB-1_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948009	**MW-6 SHALLOW_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948010	**P13-102_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948011	**MW-6 DEEP_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948012	**MW-3 DEEP_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948013	**MW-4 SHALLOW_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948014	**MW-4 DEEP_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948015	**MW-1 SHALLOW_20130417**	EPA 200.7	MPRP/22464	EPA 200.7	ICP/17847
60142948016	**MW-2 DEEP_20130417**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948017	**EB-2_20130417**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948018	**DR-7_20130418**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948019	**DR-7 COMPOSITE_20130418**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948020	**DR-2_20130418**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948021	**DR-2 COMPOSITE_20130418**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948022	**DR-1_20130418**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948023	**DR-1 COMPOSITE_20130418**	EPA 200.7	MPRP/22466	EPA 200.7	ICP/17848
60142948001	**DR-4 SW_20130416**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948002	**DR-G_20130416**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948004	**MW-5 DEEP_20130416**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948005	**GW-6_20130416**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948006	**MW-5 SHALLOW_20130416**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948007	**P13-103_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948008	**EB-1_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948009	**MW-6 SHALLOW_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948010	**P13-102_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948011	**MW-6 DEEP_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948012	**MW-3 DEEP_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948013	**MW-4 SHALLOW_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948014	**MW-4 DEEP_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948015	**MW-1 SHALLOW_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948016	**MW-2 DEEP_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948017	**EB-2_20130417**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948018	**DR-7_20130418**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948019	**DR-7 COMPOSITE_20130418**	EPA 200.8	MPRP/38673	EPA 200.8	ICPM/15920
60142948020	**DR-2_20130418**	EPA 200.8	MPRP/38674	EPA 200.8	ICPM/15953
60142948021	**DR-2 COMPOSITE_20130418**	EPA 200.8	MPRP/38674	EPA 200.8	ICPM/15953
60142948022	**DR-1_20130418**	EPA 200.8	MPRP/38674	EPA 200.8	ICPM/15953
60142948023	**DR-1 COMPOSITE_20130418**	EPA 200.8	MPRP/38674	EPA 200.8	ICPM/15953
60142948001	**DR-4 SW_20130416**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948002	**DR-G_20130416**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948004	**MW-5 DEEP_20130416**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948005	**GW-6_20130416**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948006	**MW-5 SHALLOW_20130416**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948007	**P13-103_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948008	**EB-1_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948009	**MW-6 SHALLOW_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948010	**P13-102_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948011	**MW-6 DEEP_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948012	**MW-3 DEEP_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948013	**MW-4 SHALLOW_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948014	**MW-4 DEEP_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948015	**MW-1 SHALLOW_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948016	**MW-2 DEEP_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948017	**EB-2_20130417**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948018	**DR-7_20130418**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948019	**DR-7 COMPOSITE_20130418**	EPA 200.8	MPRP/38676	EPA 200.8	ICPM/15921
60142948020	**DR-2_20130418**	EPA 200.8	MPRP/38677	EPA 200.8	ICPM/15954
60142948021	**DR-2 COMPOSITE_20130418**	EPA 200.8	MPRP/38677	EPA 200.8	ICPM/15954
60142948022	**DR-1_20130418**	EPA 200.8	MPRP/38677	EPA 200.8	ICPM/15954
60142948023	**DR-1 COMPOSITE_20130418**	EPA 200.8	MPRP/38677	EPA 200.8	ICPM/15954
60142948001	**DR-4 SW_20130416**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948002	**DR-G_20130416**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948004	**MW-5 DEEP_20130416**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948005	**GW-6_20130416**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948006	**MW-5 SHALLOW_20130416**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948007	**P13-103_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948008	**EB-1_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948009	**MW-6 SHALLOW_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948010	**P13-102_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948011	**MW-6 DEEP_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948012	**MW-3 DEEP_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948013	**MW-4 SHALLOW_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948014	**MW-4 DEEP_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948015	**MW-1 SHALLOW_20130417**	EPA 200.8	MPRP/22465	EPA 200.8	ICPM/2223
60142948016	**MW-2 DEEP_20130417**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948017	**EB-2_20130417**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948018	**DR-7_20130418**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948019	**DR-7 COMPOSITE_20130418**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948020	**DR-2_20130418**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948021	**DR-2 COMPOSITE_20130418**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948022	**DR-1_20130418**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948023	**DR-1 COMPOSITE_20130418**	EPA 200.8	MPRP/22520	EPA 200.8	ICPM/2235
60142948001	**DR-4 SW_20130416**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948002	**DR-G_20130416**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948004	**MW-5 DEEP_20130416**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948005	**GW-6_20130416**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948006	**MW-5 SHALLOW_20130416**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948007	**P13-103_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948008	**EB-1_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948009	**MW-6 SHALLOW_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948010	**P13-102_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948011	**MW-6 DEEP_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948012	**MW-3 DEEP_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948013	**MW-4 SHALLOW_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948014	**MW-4 DEEP_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948015	**MW-1 SHALLOW_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948016	**MW-2 DEEP_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948017	**EB-2_20130417**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948018	**DR-7_20130418**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948019	**DR-7 COMPOSITE_20130418**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948020	**DR-2_20130418**	EPA 245.1	MERP/8299	EPA 245.1	MERC/9444
60142948021	**DR-2 COMPOSITE_20130418**	EPA 245.1	MERP/8300	EPA 245.1	MERC/9443
60142948022	**DR-1_20130418**	EPA 245.1	MERP/8300	EPA 245.1	MERC/9443
60142948023	**DR-1 COMPOSITE_20130418**	EPA 245.1	MERP/8300	EPA 245.1	MERC/9443
60142948001	**DR-4 SW_20130416**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948002	**DR-G_20130416**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948004	**MW-5 DEEP_20130416**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948005	**GW-6_20130416**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948006	**MW-5 SHALLOW_20130416**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948007	**P13-103_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948008	**EB-1_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948009	**MW-6 SHALLOW_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948010	**P13-102_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948011	**MW-6 DEEP_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948012	**MW-3 DEEP_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948013	**MW-4 SHALLOW_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948014	**MW-4 DEEP_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948015	**MW-1 SHALLOW_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948016	**MW-2 DEEP_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948017	**EB-2_20130417**	EPA 245.1	MERP/8303	EPA 245.1	MERC/9441
60142948018	**DR-7_20130418**	EPA 245.1	MERP/8308	EPA 245.1	MERC/9431
60142948019	**DR-7 COMPOSITE_20130418**	EPA 245.1	MERP/8308	EPA 245.1	MERC/9431
60142948020	**DR-2_20130418**	EPA 245.1	MERP/8308	EPA 245.1	MERC/9431
60142948021	**DR-2 COMPOSITE_20130418**	EPA 245.1	MERP/8308	EPA 245.1	MERC/9431
60142948022	**DR-1_20130418**	EPA 245.1	MERP/8308	EPA 245.1	MERC/9431
60142948023	**DR-1 COMPOSITE_20130418**	EPA 245.1	MERP/8308	EPA 245.1	MERC/9431
60142948001	**DR-4 SW_20130416**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948002	**DR-G_20130416**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948004	**MW-5 DEEP_20130416**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948005	**GW-6_20130416**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948006	**MW-5 SHALLOW_20130416**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948007	**P13-103_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948008	**EB-1_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948009	**MW-6 SHALLOW_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948010	**P13-102_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948011	**MW-6 DEEP_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948012	**MW-3 DEEP_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948013	**MW-4 SHALLOW_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948014	**MW-4 DEEP_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948015	**MW-1 SHALLOW_20130417**	EPA 245.1	MERP/7280	EPA 245.1	MERC/7239
60142948016	**MW-2 DEEP_20130417**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948017	**EB-2_20130417**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948018	**DR-7_20130418**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948019	**DR-7 COMPOSITE_20130418**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948020	**DR-2_20130418**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948021	**DR-2 COMPOSITE_20130418**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948022	**DR-1_20130418**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948023	**DR-1 COMPOSITE_20130418**	EPA 245.1	MERP/7281	EPA 245.1	MERC/7240
60142948001	**DR-4 SW_20130416**	SM 2510B	MT/11793		
60142948002	**DR-G_20130416**	SM 2510B	MT/11793		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 2510B	MT/11793		
60142948004	**MW-5 DEEP_20130416**	SM 2510B	MT/11793		
60142948005	**GW-6_20130416**	SM 2510B	MT/11793		
60142948006	**MW-5 SHALLOW_20130416**	SM 2510B	MT/11793		
60142948007	**P13-103_20130417**	SM 2510B	MT/11793		
60142948008	**EB-1_20130417**	SM 2510B	MT/11793		
60142948009	**MW-6 SHALLOW_20130417**	SM 2510B	MT/11793		
60142948010	**P13-102_20130417**	SM 2510B	MT/11793		
60142948011	**MW-6 DEEP_20130417**	SM 2510B	MT/11793		
60142948012	**MW-3 DEEP_20130417**	SM 2510B	MT/11793		
60142948013	**MW-4 SHALLOW_20130417**	SM 2510B	MT/11793		
60142948014	**MW-4 DEEP_20130417**	SM 2510B	MT/11793		
60142948015	**MW-1 SHALLOW_20130417**	SM 2510B	MT/11793		
60142948016	**MW-2 DEEP_20130417**	SM 2510B	MT/11793		
60142948017	**EB-2_20130417**	SM 2510B	MT/11793		
60142948018	**DR-7_20130418**	SM 2510B	MT/11793		
60142948019	**DR-7 COMPOSITE_20130418**	SM 2510B	MT/11793		
60142948020	**DR-2_20130418**	SM 2510B	MT/11793		
60142948021	**DR-2 COMPOSITE_20130418**	SM 2510B	MT/11794		
60142948022	**DR-1_20130418**	SM 2510B	MT/11794		
60142948023	**DR-1 COMPOSITE_20130418**	SM 2510B	MT/11794		
60142948001	**DR-4 SW_20130416**	Calculated	MT/11818		
60142948002	**DR-G_20130416**	Calculated	MT/11818		
60142948003	**DR-4-SW COMPOSITE_20130416**	Calculated	MT/11818		
60142948004	**MW-5 DEEP_20130416**	Calculated	MT/11818		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948005	**GW-6_20130416**	Calculated	MT/11818		
60142948006	**MW-5 SHALLOW_20130416**	Calculated	MT/11818		
60142948007	**P13-103_20130417**	Calculated	MT/11818		
60142948008	**EB-1_20130417**	Calculated	MT/11818		
60142948009	**MW-6 SHALLOW_20130417**	Calculated	MT/11818		
60142948010	**P13-102_20130417**	Calculated	MT/11818		
60142948011	**MW-6 DEEP_20130417**	Calculated	MT/11818		
60142948012	**MW-3 DEEP_20130417**	Calculated	MT/11818		
60142948013	**MW-4 SHALLOW_20130417**	Calculated	MT/11818		
60142948014	**MW-4 DEEP_20130417**	Calculated	MT/11818		
60142948015	**MW-1 SHALLOW_20130417**	Calculated	MT/11818		
60142948016	**MW-2 DEEP_20130417**	Calculated	MT/11818		
60142948017	**EB-2_20130417**	Calculated	MT/11818		
60142948018	**DR-7_20130418**	Calculated	MT/11818		
60142948019	**DR-7 COMPOSITE_20130418**	Calculated	MT/11818		
60142948020	**DR-2_20130418**	Calculated	MT/11818		
60142948021	**DR-2 COMPOSITE_20130418**	Calculated	MT/11819		
60142948022	**DR-1_20130418**	Calculated	MT/11819		
60142948023	**DR-1 COMPOSITE_20130418**	Calculated	MT/11819		
60142948001	**DR-4 SW_20130416**	SM 2320B	WET/40978		
60142948002	**DR-G_20130416**	SM 2320B	WET/40978		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 2320B	WET/40978		
60142948004	**MW-5 DEEP_20130416**	SM 2320B	WET/40996		
60142948005	**GW-6_20130416**	SM 2320B	WET/40996		
60142948006	**MW-5 SHALLOW_20130416**	SM 2320B	WET/40996		
60142948007	**P13-103_20130417**	SM 2320B	WET/41012		
60142948008	**EB-1_20130417**	SM 2320B	WET/41012		
60142948009	**MW-6 SHALLOW_20130417**	SM 2320B	WET/41012		
60142948010	**P13-102_20130417**	SM 2320B	WET/41012		
60142948011	**MW-6 DEEP_20130417**	SM 2320B	WET/41012		
60142948012	**MW-3 DEEP_20130417**	SM 2320B	WET/41012		
60142948013	**MW-4 SHALLOW_20130417**	SM 2320B	WET/41012		
60142948014	**MW-4 DEEP_20130417**	SM 2320B	WET/41012		
60142948015	**MW-1 SHALLOW_20130417**	SM 2320B	WET/41012		
60142948016	**MW-2 DEEP_20130417**	SM 2320B	WET/41012		
60142948017	**EB-2_20130417**	SM 2320B	WET/41012		
60142948018	**DR-7_20130418**	SM 2320B	WET/41012		
60142948019	**DR-7 COMPOSITE_20130418**	SM 2320B	WET/41012		
60142948020	**DR-2_20130418**	SM 2320B	WET/41012		
60142948021	**DR-2 COMPOSITE_20130418**	SM 2320B	WET/41012		
60142948022	**DR-1_20130418**	SM 2320B	WET/41012		
60142948023	**DR-1 COMPOSITE_20130418**	SM 2320B	WET/41012		
60142948001	**DR-4 SW_20130416**	SM 2540C	WET/40924		
60142948002	**DR-G_20130416**	SM 2540C	WET/40924		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 2540C	WET/40924		
60142948004	**MW-5 DEEP_20130416**	SM 2540C	WET/40924		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948005	**GW-6_20130416**	SM 2540C	WET/40924		
60142948006	**MW-5 SHALLOW_20130416**	SM 2540C	WET/40924		
60142948007	**P13-103_20130417**	SM 2540C	WET/40924		
60142948008	**EB-1_20130417**	SM 2540C	WET/40924		
60142948009	**MW-6 SHALLOW_20130417**	SM 2540C	WET/40924		
60142948010	**P13-102_20130417**	SM 2540C	WET/40924		
60142948011	**MW-6 DEEP_20130417**	SM 2540C	WET/40924		
60142948012	**MW-3 DEEP_20130417**	SM 2540C	WET/40924		
60142948013	**MW-4 SHALLOW_20130417**	SM 2540C	WET/40924		
60142948014	**MW-4 DEEP_20130417**	SM 2540C	WET/40924		
60142948015	**MW-1 SHALLOW_20130417**	SM 2540C	WET/40924		
60142948016	**MW-2 DEEP_20130417**	SM 2540C	WET/40924		
60142948017	**EB-2_20130417**	SM 2540C	WET/40924		
60142948018	**DR-7_20130418**	SM 2540C	WET/40975		
60142948019	**DR-7 COMPOSITE_20130418**	SM 2540C	WET/40975		
60142948020	**DR-2_20130418**	SM 2540C	WET/40975		
60142948021	**DR-2 COMPOSITE_20130418**	SM 2540C	WET/40975		
60142948022	**DR-1_20130418**	SM 2540C	WET/40975		
60142948023	**DR-1 COMPOSITE_20130418**	SM 2540C	WET/40975		
60142948001	**DR-4 SW_20130416**	SM 2540D	WET/40904		
60142948002	**DR-G_20130416**	SM 2540D	WET/40904		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 2540D	WET/40904		
60142948004	**MW-5 DEEP_20130416**	SM 2540D	WET/40904		
60142948005	**GW-6_20130416**	SM 2540D	WET/40904		
60142948006	**MW-5 SHALLOW_20130416**	SM 2540D	WET/40904		
60142948007	**P13-103_20130417**	SM 2540D	WET/40954		
60142948008	**EB-1_20130417**	SM 2540D	WET/40954		
60142948009	**MW-6 SHALLOW_20130417**	SM 2540D	WET/40954		
60142948010	**P13-102_20130417**	SM 2540D	WET/40954		
60142948011	**MW-6 DEEP_20130417**	SM 2540D	WET/40954		
60142948012	**MW-3 DEEP_20130417**	SM 2540D	WET/40954		
60142948013	**MW-4 SHALLOW_20130417**	SM 2540D	WET/40954		
60142948014	**MW-4 DEEP_20130417**	SM 2540D	WET/40954		
60142948015	**MW-1 SHALLOW_20130417**	SM 2540D	WET/40954		
60142948016	**MW-2 DEEP_20130417**	SM 2540D	WET/40954		
60142948017	**EB-2_20130417**	SM 2540D	WET/40955		
60142948018	**DR-7_20130418**	SM 2540D	WET/40973		
60142948019	**DR-7 COMPOSITE_20130418**	SM 2540D	WET/40973		
60142948020	**DR-2_20130418**	SM 2540D	WET/40974		
60142948021	**DR-2 COMPOSITE_20130418**	SM 2540D	WET/40974		
60142948022	**DR-1_20130418**	SM 2540D	WET/40974		
60142948023	**DR-1 COMPOSITE_20130418**	SM 2540D	WET/40974		
60142948001	**DR-4 SW_20130416**	SM 4500-S-2 D	WET/40920		
60142948002	**DR-G_20130416**	SM 4500-S-2 D	WET/40920		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 4500-S-2 D	WET/40920		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948004	**MW-5 DEEP_20130416**	SM 4500-S-2 D	WET/40920		
60142948005	**GW-6_20130416**	SM 4500-S-2 D	WET/40920		
60142948006	**MW-5 SHALLOW_20130416**	SM 4500-S-2 D	WET/40920		
60142948007	**P13-103_20130417**	SM 4500-S-2 D	WET/40920		
60142948008	**EB-1_20130417**	SM 4500-S-2 D	WET/40920		
60142948009	**MW-6 SHALLOW_20130417**	SM 4500-S-2 D	WET/40920		
60142948010	**P13-102_20130417**	SM 4500-S-2 D	WET/40920		
60142948011	**MW-6 DEEP_20130417**	SM 4500-S-2 D	WET/40920		
60142948012	**MW-3 DEEP_20130417**	SM 4500-S-2 D	WET/40920		
60142948013	**MW-4 SHALLOW_20130417**	SM 4500-S-2 D	WET/40920		
60142948014	**MW-4 DEEP_20130417**	SM 4500-S-2 D	WET/40920		
60142948015	**MW-1 SHALLOW_20130417**	SM 4500-S-2 D	WET/40920		
60142948016	**MW-2 DEEP_20130417**	SM 4500-S-2 D	WET/40920		
60142948017	**EB-2_20130417**	SM 4500-S-2 D	WET/40920		
60142948018	**DR-7_20130418**	SM 4500-S-2 D	WET/40950		
60142948019	**DR-7 COMPOSITE_20130418**	SM 4500-S-2 D	WET/40950		
60142948020	**DR-2_20130418**	SM 4500-S-2 D	WET/40950		
60142948021	**DR-2 COMPOSITE_20130418**	SM 4500-S-2 D	WET/40950		
60142948022	**DR-1_20130418**	SM 4500-S-2 D	WET/40950		
60142948023	**DR-1 COMPOSITE_20130418**	SM 4500-S-2 D	WET/40950		
60142948001	**DR-4 SW_20130416**	EPA 300.0	WETA/24467		
60142948002	**DR-G_20130416**	EPA 300.0	WETA/24467		
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 300.0	WETA/24467		
60142948004	**MW-5 DEEP_20130416**	EPA 300.0	WETA/24467		
60142948005	**GW-6_20130416**	EPA 300.0	WETA/24467		
60142948006	**MW-5 SHALLOW_20130416**	EPA 300.0	WETA/24467		
60142948007	**P13-103_20130417**	EPA 300.0	WETA/24467		
60142948008	**EB-1_20130417**	EPA 300.0	WETA/24476		
60142948009	**MW-6 SHALLOW_20130417**	EPA 300.0	WETA/24476		
60142948010	**P13-102_20130417**	EPA 300.0	WETA/24476		
60142948011	**MW-6 DEEP_20130417**	EPA 300.0	WETA/24476		
60142948012	**MW-3 DEEP_20130417**	EPA 300.0	WETA/24476		
60142948013	**MW-4 SHALLOW_20130417**	EPA 300.0	WETA/24476		
60142948014	**MW-4 DEEP_20130417**	EPA 300.0	WETA/24476		
60142948015	**MW-1 SHALLOW_20130417**	EPA 300.0	WETA/24476		
60142948016	**MW-2 DEEP_20130417**	EPA 300.0	WETA/24476		
60142948017	**EB-2_20130417**	EPA 300.0	WETA/24476		
60142948018	**DR-7_20130418**	EPA 300.0	WETA/24476		
60142948019	**DR-7 COMPOSITE_20130418**	EPA 300.0	WETA/24476		
60142948020	**DR-2_20130418**	EPA 300.0	WETA/24476		
60142948021	**DR-2 COMPOSITE_20130418**	EPA 300.0	WETA/24476		
60142948022	**DR-1_20130418**	EPA 300.0	WETA/24476		
60142948023	**DR-1 COMPOSITE_20130418**	EPA 300.0	WETA/24476		
60142948001	**DR-4 SW_20130416**	EPA 353.2	WETA/24437		
60142948002	**DR-G_20130416**	EPA 353.2	WETA/24437		
60142948003	**DR-4-SW COMPOSITE_20130416**	EPA 353.2	WETA/24437		
60142948004	**MW-5 DEEP_20130416**	EPA 353.2	WETA/24437		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948005	**GW-6_20130416**	EPA 353.2	WETA/24437		
60142948006	**MW-5 SHALLOW_20130416**	EPA 353.2	WETA/24437		
60142948007	**P13-103_20130417**	EPA 353.2	WETA/24437		
60142948008	**EB-1_20130417**	EPA 353.2	WETA/24437		
60142948009	**MW-6 SHALLOW_20130417**	EPA 353.2	WETA/24437		
60142948010	**P13-102_20130417**	EPA 353.2	WETA/24437		
60142948011	**MW-6 DEEP_20130417**	EPA 353.2	WETA/24437		
60142948012	**MW-3 DEEP_20130417**	EPA 353.2	WETA/24437		
60142948013	**MW-4 SHALLOW_20130417**	EPA 353.2	WETA/24437		
60142948014	**MW-4 DEEP_20130417**	EPA 353.2	WETA/24438		
60142948015	**MW-1 SHALLOW_20130417**	EPA 353.2	WETA/24438		
60142948016	**MW-2 DEEP_20130417**	EPA 353.2	WETA/24438		
60142948017	**EB-2_20130417**	EPA 353.2	WETA/24438		
60142948018	**DR-7_20130418**	EPA 353.2	WETA/24438		
60142948019	**DR-7 COMPOSITE_20130418**	EPA 353.2	WETA/24438		
60142948020	**DR-2_20130418**	EPA 353.2	WETA/24438		
60142948021	**DR-2 COMPOSITE_20130418**	EPA 353.2	WETA/24438		
60142948022	**DR-1_20130418**	EPA 353.2	WETA/24438		
60142948023	**DR-1 COMPOSITE_20130418**	EPA 353.2	WETA/24438		
60142948001	**DR-4 SW_20130416**	SM 4500-CN-E	WETA/24398		
60142948002	**DR-G_20130416**	SM 4500-CN-E	WETA/24398		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 4500-CN-E	WETA/24398		
60142948004	**MW-5 DEEP_20130416**	SM 4500-CN-E	WETA/24398		
60142948005	**GW-6_20130416**	SM 4500-CN-E	WETA/24398		
60142948006	**MW-5 SHALLOW_20130416**	SM 4500-CN-E	WETA/24398		
60142948007	**P13-103_20130417**	SM 4500-CN-E	WETA/24398		
60142948008	**EB-1_20130417**	SM 4500-CN-E	WETA/24398		
60142948009	**MW-6 SHALLOW_20130417**	SM 4500-CN-E	WETA/24398		
60142948010	**P13-102_20130417**	SM 4500-CN-E	WETA/24398		
60142948011	**MW-6 DEEP_20130417**	SM 4500-CN-E	WETA/24398		
60142948012	**MW-3 DEEP_20130417**	SM 4500-CN-E	WETA/24398		
60142948013	**MW-4 SHALLOW_20130417**	SM 4500-CN-E	WETA/24398		
60142948014	**MW-4 DEEP_20130417**	SM 4500-CN-E	WETA/24398		
60142948015	**MW-1 SHALLOW_20130417**	SM 4500-CN-E	WETA/24398		
60142948016	**MW-2 DEEP_20130417**	SM 4500-CN-E	WETA/24398		
60142948017	**EB-2_20130417**	SM 4500-CN-E	WETA/24398		
60142948018	**DR-7_20130418**	SM 4500-CN-E	WETA/24399		
60142948019	**DR-7 COMPOSITE_20130418**	SM 4500-CN-E	WETA/24399		
60142948020	**DR-2_20130418**	SM 4500-CN-E	WETA/24399		
60142948021	**DR-2 COMPOSITE_20130418**	SM 4500-CN-E	WETA/24399		
60142948022	**DR-1_20130418**	SM 4500-CN-E	WETA/24399		
60142948023	**DR-1 COMPOSITE_20130418**	SM 4500-CN-E	WETA/24399		
60142948001	**DR-4 SW_20130416**	SM 5310C	WETA/24503		
60142948002	**DR-G_20130416**	SM 5310C	WETA/24503		
60142948003	**DR-4-SW COMPOSITE_20130416**	SM 5310C	WETA/24503		
60142948004	**MW-5 DEEP_20130416**	SM 5310C	WETA/24503		
60142948005	**GW-6_20130416**	SM 5310C	WETA/24503		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: April 2013 Rico Water Sampling
Pace Project No.: 60142948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60142948006	**MW-5 SHALLOW_20130416**	SM 5310C	WETA/24503		
60142948007	**P13-103_20130417**	SM 5310C	WETA/24503		
60142948008	**EB-1_20130417**	SM 5310C	WETA/24503		
60142948009	**MW-6 SHALLOW_20130417**	SM 5310C	WETA/24503		
60142948010	**P13-102_20130417**	SM 5310C	WETA/24503		
60142948011	**MW-6 DEEP_20130417**	SM 5310C	WETA/24535		
60142948012	**MW-3 DEEP_20130417**	SM 5310C	WETA/24535		
60142948013	**MW-4 SHALLOW_20130417**	SM 5310C	WETA/24535		
60142948014	**MW-4 DEEP_20130417**	SM 5310C	WETA/24535		
60142948015	**MW-1 SHALLOW_20130417**	SM 5310C	WETA/24535		
60142948016	**MW-2 DEEP_20130417**	SM 5310C	WETA/24535		
60142948017	**EB-2_20130417**	SM 5310C	WETA/24535		
60142948018	**DR-7_20130418**	SM 5310C	WETA/24535		
60142948019	**DR-7 COMPOSITE_20130418**	SM 5310C	WETA/24535		
60142948020	**DR-2_20130418**	SM 5310C	WETA/24535		
60142948021	**DR-2 COMPOSITE_20130418**	SM 5310C	WETA/24535		
60142948022	**DR-1_20130418**	SM 5310C	WETA/24535		
60142948023	**DR-1 COMPOSITE_20130418**	SM 5310C	WETA/24535		

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MERP/8340 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1419686 — Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/09/13 10:30	

LABORATORY CONTROL SAMPLE: 1419687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1419688 1419689

Parameter	Units	60143382002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	5.0	97	98	85-115	1	30	

MATRIX SPIKE SAMPLE: 1419690

Parameter	Units	10226991003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.000051J mg/L	5	1.3	25	85-115	M1

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MERP/8351 — Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 — Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1421044 — Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/09/13 09:43	

LABORATORY CONTROL SAMPLE: 1421045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE SAMPLE: 1421048

Parameter	Units	60143382011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1424286 1424287

Parameter	Units	60143382002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.1	5.1	102	101	85-115	.6	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MERP/7299 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury, Potentially Dissolved
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1178272 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/13 11:56	

LABORATORY CONTROL SAMPLE: 1178273

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178274 1178275

Parameter	Units	60143382005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	5.1	5.2	103	103	70-130	0	20	

MATRIX SPIKE SAMPLE: 1178276

Parameter	Units	60143382006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	ND	5	5.0	100	70-130	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MPRP/22492 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Potentially Dissolved Metals
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1178238 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium, Dissolved	ug/L	23.6J	100	05/03/13 14:25	
Magnesium, Dissolved	ug/L	6.6J	50.0	05/03/13 14:25	
Potassium, Dissolved	ug/L	ND	500	05/03/13 14:25	
Sodium, Dissolved	ug/L	88.2J	500	05/03/13 14:25	

LABORATORY CONTROL SAMPLE: 1178239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	10000	10200	102	85-115	
Magnesium, Dissolved	ug/L	10000	10500	105	85-115	
Potassium, Dissolved	ug/L	10000	10200	102	85-115	
Sodium, Dissolved	ug/L	10000	10300	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178240 1178241

Parameter	Units	60143382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	ug/L	251000	10000	10000	264000	265000	134	145	70-130	0	20	M1
Magnesium, Dissolved	ug/L	21500	10000	10000	31600	31300	102	99	70-130	1	20	
Potassium, Dissolved	ug/L	9790	10000	10000	20300	20400	105	107	70-130	1	20	
Sodium, Dissolved	ug/L	12400	10000	10000	23200	23400	109	110	70-130	1	20	

MATRIX SPIKE SAMPLE: 1178242

Parameter	Units	60143382003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	ug/L	298000	10000	312000	141	70-130	M1
Magnesium, Dissolved	ug/L	30700	10000	40900	102	70-130	
Potassium, Dissolved	ug/L	3960	10000	14600	106	70-130	
Sodium, Dissolved	ug/L	14500	10000	25200	107	70-130	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MPRP/39002 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1425163 Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	4.0	05/11/13 07:45	
Antimony	ug/L	ND	0.50	05/11/13 07:45	
Arsenic	ug/L	ND	0.50	05/11/13 07:45	
Barium	ug/L	ND	0.30	05/11/13 07:45	
Beryllium	ug/L	ND	0.20	05/11/13 07:45	
Cadmium	ug/L	ND	0.080	05/11/13 07:45	
Calcium	ug/L	ND	20.0	05/11/13 07:45	
Chromium	ug/L	ND	0.50	05/11/13 07:45	
Cobalt	ug/L	ND	0.50	05/11/13 07:45	
Copper	ug/L	ND	0.50	05/11/13 07:45	
Iron	ug/L	ND	50.0	05/11/13 07:45	
Lead	ug/L	ND	0.10	05/11/13 07:45	
Magnesium	ug/L	ND	5.0	05/11/13 07:45	
Manganese	ug/L	ND	0.50	05/11/13 07:45	
Molybdenum	ug/L	ND	0.50	05/11/13 07:45	
Nickel	ug/L	ND	0.50	05/11/13 07:45	
Potassium	ug/L	ND	20.0	05/11/13 07:45	
Selenium	ug/L	ND	0.50	05/11/13 07:45	
Silver	ug/L	ND	0.50	05/11/13 07:45	
Sodium	ug/L	ND	50.0	05/12/13 22:13	
Thallium	ug/L	ND	0.10	05/11/13 07:45	
Vanadium	ug/L	ND	0.10	05/11/13 07:45	
Zinc	ug/L	ND	5.0	05/11/13 07:45	

LABORATORY CONTROL SAMPLE: 1425164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80	82.0	102	85-115	
Antimony	ug/L	80	81.3	102	85-115	
Arsenic	ug/L	80	77.0	96	85-115	
Barium	ug/L	80	81.3	102	85-115	
Beryllium	ug/L	80	82.0	102	85-115	
Cadmium	ug/L	80	82.0	102	85-115	
Calcium	ug/L	1000	968	97	85-115	
Chromium	ug/L	80	83.1	104	85-115	
Cobalt	ug/L	80	78.8	98	85-115	
Copper	ug/L	80	82.9	104	85-115	
Iron	ug/L	1000	1060	106	85-115	
Lead	ug/L	80	85.7	107	85-115	
Magnesium	ug/L	1000	1030	103	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

LABORATORY CONTROL SAMPLE: 1425164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	80	83.8	105	85-115	
Molybdenum	ug/L	80	76.7	96	85-115	
Nickel	ug/L	80	81.1	101	85-115	
Potassium	ug/L	1000	1020	102	85-115	
Selenium	ug/L	80	79.5	99	85-115	
Silver	ug/L	80	83.8	105	85-115	
Sodium	ug/L	1000	993	99	85-115	
Thallium	ug/L	80	87.1	109	85-115	
Vanadium	ug/L	80	75.6	95	85-115	
Zinc	ug/L	80	82.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1425165 1425166

Parameter	Units	10226337002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	0.0070 mg/L	80	80	82.7	80.8	95	92	70-130	2	20	
Antimony	ug/L	0.51	80	80	82.2	79.7	102	99	70-130	3	20	
Arsenic	ug/L	0.0025 mg/L	80	80	84.3	82.2	102	100	70-130	3	20	
Barium	ug/L	12.3	80	80	93.9	92.3	102	100	70-130	2	20	
Beryllium	ug/L	ND	80	80	77.3	75.9	97	95	70-130	2	20	
Cadmium	ug/L	0.00010 mg/L	80	80	80.3	78.1	100	98	70-130	3	20	
Calcium	ug/L	138 mg/L	1000	1000	133000	131000	-522	-752	70-130	2	20	E,M1
Chromium	ug/L	0.50J	80	80	79.8	78.1	99	97	70-130	2	20	
Cobalt	ug/L	0.19J	80	80	81.2	79.0	101	99	70-130	3	20	
Copper	ug/L	0.0052 mg/L	80	80	84.4	81.8	99	96	70-130	3	20	
Iron	ug/L	0.015J mg/L	1000	1000	1020	996	101	98	70-130	2	20	
Lead	ug/L	0.00027 mg/L	80	80	80.6	77.8	100	97	70-130	4	20	
Magnesium	ug/L	32.4 mg/L	1000	1000	32000	31400	-36	-93	70-130	2	20	E,M1
Manganese	ug/L	62.8	80	80	142	140	99	96	70-130	2	20	
Molybdenum	ug/L	6.1	80	80	86.3	84.4	100	98	70-130	2	20	
Nickel	ug/L	0.55	80	80	81.0	79.1	101	98	70-130	2	20	
Potassium	ug/L	8100	1000	1000	8980	8880	89	78	70-130	1	20	
Selenium	ug/L	0.22J	80	80	84.7	82.9	106	103	70-130	2	20	
Silver	ug/L	ND	80	80	34.8	29.9	43	37	70-130	15	20	M1
Sodium	ug/L	2860	1000	1000	68200	67300	6530	6440	70-130	1	20	E,M1
Thallium	ug/L	0.042J	80	80	83.1	80.6	104	101	70-130	3	20	
Vanadium	ug/L	0.73	80	80	75.4	74.0	93	92	70-130	2	20	
Zinc	ug/L	0.019 mg/L	80	80	100	95.4	101	95	70-130	5	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

MATRIX SPIKE SAMPLE: 1425167

Parameter	Units	60143382008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1020	80	1080	81	70-130	
Antimony	ug/L	ND	80	79.3	99	70-130	
Arsenic	ug/L	2.4	80	83.6	102	70-130	
Barium	ug/L	22.7	80	103	100	70-130	
Beryllium	ug/L	1.1	80	73.5	90	70-130	
Cadmium	ug/L	19.0	80	95.1	95	70-130	
Calcium	ug/L	293000	1000	258000	-3420	70-130	E,M1
Chromium	ug/L	0.57	80	78.1	97	70-130	
Cobalt	ug/L	3.2	80	80.7	97	70-130	
Copper	ug/L	170	80	241	88	70-130	
Iron	ug/L	12400	1000	13200	82	70-130	
Lead	ug/L	25.0	80	104	99	70-130	
Magnesium	ug/L	19600	1000	20200	60	70-130	M1
Manganese	ug/L	1890	80	1810	-98	70-130	E,M1
Molybdenum	ug/L	17.4	80	91.9	93	70-130	
Nickel	ug/L	4.0	80	78.8	93	70-130	
Potassium	ug/L	5420	1000	6360	94	70-130	
Selenium	ug/L	ND	80	86.1	107	70-130	
Silver	ug/L	ND	80	70.8	89	70-130	
Sodium	ug/L	14000	1000	14000	-4	70-130	M1
Thallium	ug/L	ND	80	82.0	102	70-130	
Vanadium	ug/L	0.21	80	73.2	91	70-130	
Zinc	ug/L	4050	80	3820	-298	70-130	E,M1

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MPRP/38807 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 MET Dissolved
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1419681 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	4.0	05/14/13 09:50	
Antimony, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Arsenic, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Barium, Dissolved	ug/L	ND	0.30	05/14/13 09:50	
Beryllium, Dissolved	ug/L	ND	0.20	05/14/13 09:50	
Cadmium, Dissolved	ug/L	ND	0.080	05/14/13 09:50	
Calcium, Dissolved	ug/L	ND	20.0	05/14/13 09:50	
Chromium, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Cobalt, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Copper, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Iron, Dissolved	ug/L	ND	50.0	05/14/13 09:50	
Lead, Dissolved	ug/L	ND	0.10	05/14/13 09:50	
Magnesium, Dissolved	ug/L	ND	5.0	05/14/13 09:50	
Manganese, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Molybdenum, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Nickel, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Potassium, Dissolved	ug/L	ND	20.0	05/14/13 09:50	
Selenium, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Silver, Dissolved	ug/L	ND	0.50	05/14/13 09:50	
Sodium, Dissolved	ug/L	ND	50.0	05/14/13 09:50	
Thallium, Dissolved	ug/L	ND	0.10	05/14/13 09:50	
Vanadium, Dissolved	ug/L	ND	0.10	05/14/13 09:50	
Zinc, Dissolved	ug/L	ND	5.0	05/14/13 09:50	

LABORATORY CONTROL SAMPLE: 1419682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	80	78.0	97	85-115	
Antimony, Dissolved	ug/L	80	84.9	106	85-115	
Arsenic, Dissolved	ug/L	80	80.3	100	85-115	
Barium, Dissolved	ug/L	80	77.2	97	85-115	
Beryllium, Dissolved	ug/L	80	84.6	106	85-115	
Cadmium, Dissolved	ug/L	80	78.6	98	85-115	
Calcium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	80	80.8	101	85-115	
Cobalt, Dissolved	ug/L	80	78.1	98	85-115	
Copper, Dissolved	ug/L	80	78.4	98	85-115	
Iron, Dissolved	ug/L	1000	1030	103	85-115	
Lead, Dissolved	ug/L	80	82.4	103	85-115	
Magnesium, Dissolved	ug/L	1000	1020	102	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

LABORATORY CONTROL SAMPLE: 1419682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	80	82.4	103	85-115	
Molybdenum, Dissolved	ug/L	80	80.1	100	85-115	
Nickel, Dissolved	ug/L	80	78.1	98	85-115	
Potassium, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	80	81.1	101	85-115	
Silver, Dissolved	ug/L	80	79.3	99	85-115	
Sodium, Dissolved	ug/L	1000	989	99	85-115	
Thallium, Dissolved	ug/L	80	83.3	104	85-115	
Vanadium, Dissolved	ug/L	80	80.6	101	85-115	
Zinc, Dissolved	ug/L	80	80.6	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1419683 1419684

Parameter	Units	60143382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	94.1	80	80	182	183	110	111	70-130	.7	20	
Antimony, Dissolved	ug/L	ND	80	80	84.3	85.2	105	106	70-130	1	20	
Arsenic, Dissolved	ug/L	0.53	80	80	87.7	88.1	109	110	70-130	.5	20	
Barium, Dissolved	ug/L	18.2	80	80	97.6	96.9	99	98	70-130	.7	20	
Beryllium, Dissolved	ug/L	ND	80	80	81.8	81.8	102	102	70-130	.09	20	
Cadmium, Dissolved	ug/L	2.0	80	80	78.6	78.6	96	96	70-130	.04	20	
Calcium, Dissolved	ug/L	248000	1000	1000	244000	242000	-370	-640	70-130	1	20	E,M1
Chromium, Dissolved	ug/L	ND	80	80	78.8	79.3	98	98	70-130	.6	20	
Cobalt, Dissolved	ug/L	ND	80	80	82.5	81.5	103	102	70-130	1	20	
Copper, Dissolved	ug/L	8.6	80	80	84.0	83.6	94	94	70-130	.5	20	
Iron, Dissolved	ug/L	537	1000	1000	1520	1530	99	99	70-130	.3	20	
Lead, Dissolved	ug/L	12.6	80	80	90.5	90.2	97	97	70-130	.4	20	
Magnesium, Dissolved	ug/L	20400	1000	1000	21400	21300	101	90	70-130	.5	20	
Manganese, Dissolved	ug/L	45.2	80	80	124	124	99	99	70-130	.2	20	
Molybdenum, Dissolved	ug/L	9.3	80	80	92.1	92.0	103	103	70-130	.07	20	
Nickel, Dissolved	ug/L	0.68	80	80	79.1	79.2	98	98	70-130	.2	20	
Potassium, Dissolved	ug/L	9430	1000	1000	10100	9980	69	55	70-130	1	20	M1
Selenium, Dissolved	ug/L	12.7	80	80	103	102	113	112	70-130	.6	20	
Silver, Dissolved	ug/L	ND	80	80	71.3	71.4	89	89	70-130	.04	20	
Sodium, Dissolved	ug/L	12000	1000	1000	13600	13500	153	142	70-130	.8	20	M1
Thallium, Dissolved	ug/L	0.11	80	80	80.2	80.0	100	100	70-130	.2	20	
Vanadium, Dissolved	ug/L	0.14	80	80	80.4	80.7	100	101	70-130	.4	20	
Zinc, Dissolved	ug/L	624	80	80	682	670	72	58	70-130	2	20	E,M1

MATRIX SPIKE SAMPLE: 1419685

Parameter	Units	60143382011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	80	79.7	96	70-130	
Antimony, Dissolved	ug/L	ND	80	85.1	106	70-130	
Arsenic, Dissolved	ug/L	ND	80	80.9	101	70-130	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

MATRIX SPIKE SAMPLE: 1419685

Parameter	Units	60143382011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium, Dissolved	ug/L	ND	80	78.2	98	70-130	
Beryllium, Dissolved	ug/L	ND	80	79.0	99	70-130	
Cadmium, Dissolved	ug/L	ND	80	78.4	98	70-130	
Calcium, Dissolved	ug/L	48.4	1000	1040	99	70-130	
Chromium, Dissolved	ug/L	ND	80	81.4	101	70-130	
Cobalt, Dissolved	ug/L	ND	80	78.4	98	70-130	
Copper, Dissolved	ug/L	ND	80	78.3	97	70-130	
Iron, Dissolved	ug/L	ND	1000	1030	102	70-130	
Lead, Dissolved	ug/L	ND	80	84.0	105	70-130	
Magnesium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Manganese, Dissolved	ug/L	ND	80	83.2	103	70-130	
Molybdenum, Dissolved	ug/L	ND	80	79.4	99	70-130	
Nickel, Dissolved	ug/L	ND	80	77.4	97	70-130	
Potassium, Dissolved	ug/L	ND	1000	1040	103	70-130	
Selenium, Dissolved	ug/L	ND	80	81.5	102	70-130	
Silver, Dissolved	ug/L	ND	80	77.8	97	70-130	
Sodium, Dissolved	ug/L	381	1000	1360	97	70-130	
Thallium, Dissolved	ug/L	ND	80	84.5	106	70-130	
Vanadium, Dissolved	ug/L	ND	80	80.9	101	70-130	
Zinc, Dissolved	ug/L	ND	80	78.9	97	70-130	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MPRP/22493 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 Potentially Dissolved Metals
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1178243 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	50.0	05/10/13 17:46	
Antimony, Dissolved	ug/L	ND	1.0	05/10/13 17:46	
Arsenic, Dissolved	ug/L	ND	1.0	05/10/13 17:46	
Barium, Dissolved	ug/L	0.46J	1.0	05/10/13 17:46	
Beryllium, Dissolved	ug/L	ND	0.50	05/10/13 17:46	
Cadmium, Dissolved	ug/L	0.17J	0.50	05/10/13 17:46	
Chromium, Dissolved	ug/L	0.28J	1.0	05/10/13 17:46	
Cobalt, Dissolved	ug/L	0.070J	1.0	05/10/13 17:46	
Copper, Dissolved	ug/L	ND	1.0	05/10/13 17:46	
Iron, Dissolved	ug/L	24.3J	50.0	05/10/13 17:46	
Lead, Dissolved	ug/L	0.46J	1.0	05/10/13 17:46	
Manganese, Dissolved	ug/L	ND	1.0	05/10/13 17:46	
Molybdenum, Dissolved	ug/L	0.40J	1.0	05/10/13 17:46	
Nickel, Dissolved	ug/L	ND	1.0	05/10/13 17:46	
Selenium, Dissolved	ug/L	ND	1.0	05/10/13 17:46	
Silver, Dissolved	ug/L	0.11J	0.50	05/10/13 17:46	
Thallium, Dissolved	ug/L	0.23J	1.0	05/10/13 17:46	
Vanadium, Dissolved	ug/L	ND	1.0	05/17/13 13:22	
Zinc, Dissolved	ug/L	1.7J	10.0	05/10/13 17:46	

LABORATORY CONTROL SAMPLE: 1178244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	400	386	96	85-115	
Antimony, Dissolved	ug/L	40	38.5	96	85-115	
Arsenic, Dissolved	ug/L	40	41.0	103	85-115	
Barium, Dissolved	ug/L	40	39.0	97	85-115	
Beryllium, Dissolved	ug/L	40	40.3	101	85-115	
Cadmium, Dissolved	ug/L	40	38.7	97	85-115	
Chromium, Dissolved	ug/L	40	40.0	100	85-115	
Cobalt, Dissolved	ug/L	40	39.9	100	85-115	
Copper, Dissolved	ug/L	40	40.4	101	85-115	
Iron, Dissolved	ug/L	400	406	101	85-115	
Lead, Dissolved	ug/L	40	40.6	102	85-115	
Manganese, Dissolved	ug/L	40	40.3	101	85-115	
Molybdenum, Dissolved	ug/L	40	40.7	102	85-115	
Nickel, Dissolved	ug/L	40	40.2	100	85-115	
Selenium, Dissolved	ug/L	40	40.3	101	85-115	
Silver, Dissolved	ug/L	20	19.6	98	85-115	
Thallium, Dissolved	ug/L	40	39.0	98	85-115	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

LABORATORY CONTROL SAMPLE: 1178244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium, Dissolved	ug/L	40	40.1	100	85-115	
Zinc, Dissolved	ug/L	100	104	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1178245 1178246

Parameter	Units	60143382002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	200	400	400	567	555	92	89	70-130	2	20	
Antimony, Dissolved	ug/L	ND	40	40	37.7	38.2	94	95	70-130	1	20	
Arsenic, Dissolved	ug/L	3.3	40	40	46.6	46.4	108	108	70-130	0	20	
Barium, Dissolved	ug/L	28.8	40	40	66.3	66.8	94	95	70-130	1	20	
Beryllium, Dissolved	ug/L	0.48J	40	40	36.5	36.0	90	89	70-130	1	20	
Cadmium, Dissolved	ug/L	0.58	40	40	37.8	37.8	93	93	70-130	0	20	
Chromium, Dissolved	ug/L	0.77J	40	40	40.0	39.5	98	97	70-130	1	20	
Cobalt, Dissolved	ug/L	3.5	40	40	41.6	41.0	95	94	70-130	1	20	
Copper, Dissolved	ug/L	1.9	40	40	39.4	39.2	94	93	70-130	0	20	
Iron, Dissolved	ug/L	7360	400	400	7880	7830	132	118	70-130	1	20	M1
Lead, Dissolved	ug/L	2.7	40	40	42.7	42.6	100	100	70-130	0	20	
Manganese, Dissolved	ug/L	7620	40	40	7880	7870	650	610	70-130	0	20	M1
Molybdenum, Dissolved	ug/L	6.8	40	40	49.4	49.6	106	107	70-130	0	20	
Nickel, Dissolved	ug/L	0.57J	40	40	38.5	37.7	95	93	70-130	2	20	
Selenium, Dissolved	ug/L	ND	40	40	42.1	41.2	105	103	70-130	2	20	
Silver, Dissolved	ug/L	0.10J	20	20	18.6	18.6	92	92	70-130	0	20	
Thallium, Dissolved	ug/L	0.28J	40	40	39.0	39.2	97	97	70-130	0	20	
Vanadium, Dissolved	ug/L	ND	40	40	39.8	40.3	100	101	70-130	1	20	
Zinc, Dissolved	ug/L	131	100	100	230	230	99	99	70-130	0	20	

MATRIX SPIKE SAMPLE: 1178247

Parameter	Units	60143382004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	317	400	689	93	70-130	
Antimony, Dissolved	ug/L	0.072J	40	37.7	94	70-130	
Arsenic, Dissolved	ug/L	0.39J	40	42.5	105	70-130	
Barium, Dissolved	ug/L	24.0	40	60.3	91	70-130	
Beryllium, Dissolved	ug/L	0.16J	40	37.0	92	70-130	
Cadmium, Dissolved	ug/L	2.8	40	39.3	91	70-130	
Chromium, Dissolved	ug/L	1.6	40	39.5	95	70-130	
Cobalt, Dissolved	ug/L	0.45J	40	37.9	94	70-130	
Copper, Dissolved	ug/L	4.6	40	41.7	93	70-130	
Iron, Dissolved	ug/L	743	400	1090	87	70-130	
Lead, Dissolved	ug/L	7.2	40	52.0	112	70-130	
Manganese, Dissolved	ug/L	208	40	243	87	70-130	
Molybdenum, Dissolved	ug/L	5.6	40	46.8	103	70-130	
Nickel, Dissolved	ug/L	ND	40	37.5	93	70-130	
Selenium, Dissolved	ug/L	1.1	40	42.4	103	70-130	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

MATRIX SPIKE SAMPLE: 1178247

Parameter	Units	60143382004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Silver, Dissolved	ug/L	0.18J	20	18.1	90	70-130	
Thallium, Dissolved	ug/L	0.21J	40	38.6	96	70-130	
Vanadium, Dissolved	ug/L	ND	40	39.2	98	70-130	
Zinc, Dissolved	ug/L	852	100	934	82	70-130	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MT/11864 | Analysis Method: SM 2510B
QC Batch Method: SM 2510B | Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008

METHOD BLANK: 1421180 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	05/02/13 13:35	

LABORATORY CONTROL SAMPLE: 1421181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	980	98	90-110	

SAMPLE DUPLICATE: 1421182

Parameter	Units	10226694003 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	508	501	1	20	

SAMPLE DUPLICATE: 1421183

Parameter	Units	60143382002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1550	1650	6	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: MT/11865 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 60143382009, 60143382010, 60143382011

METHOD BLANK: 1421185 Matrix: Water
Associated Lab Samples: 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	10.0	05/02/13 15:55	

LABORATORY CONTROL SAMPLE: 1421186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	979	98	90-110	

SAMPLE DUPLICATE: 1421187

Parameter	Units	10227164001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	348	388	11	20	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41114 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1181751 Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	20.0	05/06/13 13:30	
Alkalinity, Total as CaCO3	mg/L	ND	20.0	05/06/13 13:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	05/06/13 13:30	

LABORATORY CONTROL SAMPLE: 1181752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	479	96	90-110	

SAMPLE DUPLICATE: 1181757

Parameter	Units	60143272004 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	184	188	2	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	169	173	2	10	

SAMPLE DUPLICATE: 1181758

Parameter	Units	60143581001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO3)	mg/L	ND	ND		10	
Alkalinity, Total as CaCO3	mg/L	407	410	1	10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	407	410	1	10	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41031 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005

METHOD BLANK: 1178447 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	04/30/13 08:41	

LABORATORY CONTROL SAMPLE: 1178448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1010	101	80-120	

SAMPLE DUPLICATE: 1178449

Parameter	Units	60143276004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	335	337	1	17	

SAMPLE DUPLICATE: 1178450

Parameter	Units	60143369001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	254	259	2	17	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41046 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1179046 | Matrix: Water
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/01/13 09:44	

LABORATORY CONTROL SAMPLE: 1179047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	995	100	80-120	

SAMPLE DUPLICATE: 1179048

Parameter	Units	60143382006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1150	1160	1	17	

SAMPLE DUPLICATE: 1179049

Parameter	Units	60143475004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3760	3760	0	17	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41029 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005

METHOD BLANK: 1178439 Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/30/13 08:18	

SAMPLE DUPLICATE: 1178440

Parameter	Units	60143338002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	58.0	60.0	3	25	

SAMPLE DUPLICATE: 1178441

Parameter	Units	60143399001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41047 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1179050 | Matrix: Water
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/01/13 10:22	

SAMPLE DUPLICATE: 1179051

Parameter	Units	60143533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	13.0	8	25	

SAMPLE DUPLICATE: 1179052

Parameter	Units	60143399007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41038 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005

METHOD BLANK: 1178815 Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	04/30/13 14:29	

LABORATORY CONTROL SAMPLE: 1178816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.53	106	80-120	

MATRIX SPIKE SAMPLE: 1178852

Parameter	Units	60143275001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.44	87	75-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WET/41076 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1180118 Matrix: Water
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/02/13 14:26	

LABORATORY CONTROL SAMPLE: 1180119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	101	80-120	

MATRIX SPIKE SAMPLE: 1180120

Parameter	Units	60143326001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.18	36	75-125	M1

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WETA/24581 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1182708 Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	05/08/13 09:10	
Sulfate	mg/L	ND	1.0	05/08/13 09:10	

METHOD BLANK: 1183548 Matrix: Water
Associated Lab Samples: 60143382006, 60143382007, 60143382008, 60143382009, 60143382010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	05/09/13 23:05	

LABORATORY CONTROL SAMPLE: 1182709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	5.1	102	90-110	
Sulfate	mg/L	5	5.3	105	90-110	

LABORATORY CONTROL SAMPLE: 1183549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1182088 1182089

Parameter	Units	60143382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	5	5	5.5	5.6	95	97	64-118	1	12	
Sulfate	mg/L	711	250	250	929	928	87	87	61-119	0	10	

MATRIX SPIKE SAMPLE: 1182090

Parameter	Units	60143382010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	ND	5	5.5	97	64-118	
Sulfate	mg/L	608	250	994	155	61-119	M6

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WETA/24479 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1178483 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	04/30/13 10:15	

LABORATORY CONTROL SAMPLE: 1178484

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1178485

Parameter	Units	60143410018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.51	2	2.6	106	90-110	

MATRIX SPIKE SAMPLE: 1178487

Parameter	Units	60143418001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	61.4	40	94.2	82	90-110	M6

SAMPLE DUPLICATE: 1178486

Parameter	Units	60143416001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	1590	1590	0	13	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WETA/24458 — Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E — Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1178059 — Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0050	04/29/13 14:44	

LABORATORY CONTROL SAMPLE: 1178060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.1	0.11	108	69-126	

MATRIX SPIKE SAMPLE: 1178061

Parameter	Units	60143382001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	ND	.1	0.11	112	41-136	

SAMPLE DUPLICATE: 1178062

Parameter	Units	60143255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	mg/L	<0.0040	ND		26	

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QUALITY CONTROL DATA

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

QC Batch: WETA/24620 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

METHOD BLANK: 1183931 | Matrix: Water
Associated Lab Samples: 60143382001, 60143382002, 60143382003, 60143382004, 60143382005, 60143382006, 60143382007, 60143382008, 60143382009, 60143382010, 60143382011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/09/13 18:17	

LABORATORY CONTROL SAMPLE: 1183932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 1183933

Parameter	Units	60143382001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	5	5.7	102	80-120	

SAMPLE DUPLICATE: 1183934

Parameter	Units	60143382002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.3	2.4	6	25	

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QUALIFIERS

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60143382001	**MW-1 DEEP_20130424**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382002	**MW-103_20130424**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382003	**DR-10_20130424**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382004	**MW-104_20130424**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382005	**DR-5_20130424**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382006	**DR-6_20130425**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382007	**DR-11_20130425**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382008	**DR-3_20130425**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382009	**DR-8_20130425**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382010	**DR-4_20130425**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382011	**FB_20130425**	EPA 200.7	MPRP/22492	EPA 200.7	ICP/17860
60143382001	**MW-1 DEEP_20130424**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382002	**MW-103_20130424**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382003	**DR-10_20130424**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382004	**MW-104_20130424**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382005	**DR-5_20130424**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382006	**DR-6_20130425**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382007	**DR-11_20130425**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382008	**DR-3_20130425**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382009	**DR-8_20130425**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382010	**DR-4_20130425**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382011	**FB_20130425**	EPA 200.8	MPRP/39002	EPA 200.8	ICPM/16037
60143382001	**MW-1 DEEP_20130424**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382002	**MW-103_20130424**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382003	**DR-10_20130424**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382004	**MW-104_20130424**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382005	**DR-5_20130424**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382006	**DR-6_20130425**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382007	**DR-11_20130425**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382008	**DR-3_20130425**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382009	**DR-8_20130425**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382010	**DR-4_20130425**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382011	**FB_20130425**	EPA 200.8	MPRP/38807	EPA 200.8	ICPM/16038
60143382001	**MW-1 DEEP_20130424**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382002	**MW-103_20130424**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382003	**DR-10_20130424**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382004	**MW-104_20130424**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382005	**DR-5_20130424**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382006	**DR-6_20130425**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382007	**DR-11_20130425**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382008	**DR-3_20130425**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382009	**DR-8_20130425**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382010	**DR-4_20130425**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382011	**FB_20130425**	EPA 200.8	MPRP/22493	EPA 200.8	ICPM/2228
60143382001	**MW-1 DEEP_20130424**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382002	**MW-103_20130424**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382003	**DR-10_20130424**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60143382004	**MW-104_20130424**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382005	**DR-5_20130424**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382006	**DR-6_20130425**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382007	**DR-11_20130425**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382008	**DR-3_20130425**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382009	**DR-8_20130425**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382010	**DR-4_20130425**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382011	**FB_20130425**	EPA 245.1	MERP/8340	EPA 245.1	MERC/9500
60143382001	**MW-1 DEEP_20130424**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382002	**MW-103_20130424**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382003	**DR-10_20130424**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382004	**MW-104_20130424**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382005	**DR-5_20130424**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382006	**DR-6_20130425**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382007	**DR-11_20130425**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382008	**DR-3_20130425**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382009	**DR-8_20130425**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382010	**DR-4_20130425**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382011	**FB_20130425**	EPA 245.1	MERP/8351	EPA 245.1	MERC/9503
60143382001	**MW-1 DEEP_20130424**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382002	**MW-103_20130424**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382003	**DR-10_20130424**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382004	**MW-104_20130424**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382005	**DR-5_20130424**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382006	**DR-6_20130425**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382007	**DR-11_20130425**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382008	**DR-3_20130425**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382009	**DR-8_20130425**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382010	**DR-4_20130425**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382011	**FB_20130425**	EPA 245.1	MERP/7299	EPA 245.1	MERC/7258
60143382001	**MW-1 DEEP_20130424**	SM 2510B	MT/11864		
60143382002	**MW-103_20130424**	SM 2510B	MT/11864		
60143382003	**DR-10_20130424**	SM 2510B	MT/11864		
60143382004	**MW-104_20130424**	SM 2510B	MT/11864		
60143382005	**DR-5_20130424**	SM 2510B	MT/11864		
60143382006	**DR-6_20130425**	SM 2510B	MT/11864		
60143382007	**DR-11_20130425**	SM 2510B	MT/11864		
60143382008	**DR-3_20130425**	SM 2510B	MT/11864		
60143382009	**DR-8_20130425**	SM 2510B	MT/11865		
60143382010	**DR-4_20130425**	SM 2510B	MT/11865		
60143382011	**FB_20130425**	SM 2510B	MT/11865		
60143382001	**MW-1 DEEP_20130424**	Calculated	MT/11875		
60143382002	**MW-103_20130424**	Calculated	MT/11875		
60143382003	**DR-10_20130424**	Calculated	MT/11875		
60143382004	**MW-104_20130424**	Calculated	MT/11875		
60143382005	**DR-5_20130424**	Calculated	MT/11875		

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Pace Project No.: 60143382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60143382006	**DR-6_20130425**	Calculated	MT/11875		
60143382007	**DR-11_20130425**	Calculated	MT/11875		
60143382008	**DR-3_20130425**	Calculated	MT/11875		
60143382009	**DR-8_20130425**	Calculated	MT/11875		
60143382010	**DR-4_20130425**	Calculated	MT/11875		
60143382011	**FB_20130425**	Calculated	MT/11875		
60143382001	**MW-1 DEEP_20130424**	SM 2320B	WET/41114		
60143382002	**MW-103_20130424**	SM 2320B	WET/41114		
60143382003	**DR-10_20130424**	SM 2320B	WET/41114		
60143382004	**MW-104_20130424**	SM 2320B	WET/41114		
60143382005	**DR-5_20130424**	SM 2320B	WET/41114		
60143382006	**DR-6_20130425**	SM 2320B	WET/41114		
60143382007	**DR-11_20130425**	SM 2320B	WET/41114		
60143382008	**DR-3_20130425**	SM 2320B	WET/41114		
60143382009	**DR-8_20130425**	SM 2320B	WET/41114		
60143382010	**DR-4_20130425**	SM 2320B	WET/41114		
60143382011	**FB_20130425**	SM 2320B	WET/41114		
60143382001	**MW-1 DEEP_20130424**	SM 2540C	WET/41031		
60143382002	**MW-103_20130424**	SM 2540C	WET/41031		
60143382003	**DR-10_20130424**	SM 2540C	WET/41031		
60143382004	**MW-104_20130424**	SM 2540C	WET/41031		
60143382005	**DR-5_20130424**	SM 2540C	WET/41031		
60143382006	**DR-6_20130425**	SM 2540C	WET/41046		
60143382007	**DR-11_20130425**	SM 2540C	WET/41046		
60143382008	**DR-3_20130425**	SM 2540C	WET/41046		
60143382009	**DR-8_20130425**	SM 2540C	WET/41046		
60143382010	**DR-4_20130425**	SM 2540C	WET/41046		
60143382011	**FB_20130425**	SM 2540C	WET/41046		
60143382001	**MW-1 DEEP_20130424**	SM 2540D	WET/41029		
60143382002	**MW-103_20130424**	SM 2540D	WET/41029		
60143382003	**DR-10_20130424**	SM 2540D	WET/41029		
60143382004	**MW-104_20130424**	SM 2540D	WET/41029		
60143382005	**DR-5_20130424**	SM 2540D	WET/41029		
60143382006	**DR-6_20130425**	SM 2540D	WET/41047		
60143382007	**DR-11_20130425**	SM 2540D	WET/41047		
60143382008	**DR-3_20130425**	SM 2540D	WET/41047		
60143382009	**DR-8_20130425**	SM 2540D	WET/41047		
60143382010	**DR-4_20130425**	SM 2540D	WET/41047		
60143382011	**FB_20130425**	SM 2540D	WET/41047		
60143382001	**MW-1 DEEP_20130424**	SM 4500-S-2 D	WET/41038		
60143382002	**MW-103_20130424**	SM 4500-S-2 D	WET/41038		
60143382003	**DR-10_20130424**	SM 4500-S-2 D	WET/41038		
60143382004	**MW-104_20130424**	SM 4500-S-2 D	WET/41038		
60143382005	**DR-5_20130424**	SM 4500-S-2 D	WET/41038		
60143382006	**DR-6_20130425**	SM 4500-S-2 D	WET/41076		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60143382007	**DR-11_20130425**	SM 4500-S-2 D	WET/41076		
60143382008	**DR-3_20130425**	SM 4500-S-2 D	WET/41076		
60143382009	**DR-8_20130425**	SM 4500-S-2 D	WET/41076		
60143382010	**DR-4_20130425**	SM 4500-S-2 D	WET/41076		
60143382011	**FB_20130425**	SM 4500-S-2 D	WET/41076		
60143382001	**MW-1 DEEP_20130424**	EPA 300.0	WETA/24581		
60143382002	**MW-103_20130424**	EPA 300.0	WETA/24581		
60143382003	**DR-10_20130424**	EPA 300.0	WETA/24581		
60143382004	**MW-104_20130424**	EPA 300.0	WETA/24581		
60143382005	**DR-5_20130424**	EPA 300.0	WETA/24581		
60143382006	**DR-6_20130425**	EPA 300.0	WETA/24581		
60143382007	**DR-11_20130425**	EPA 300.0	WETA/24581		
60143382008	**DR-3_20130425**	EPA 300.0	WETA/24581		
60143382009	**DR-8_20130425**	EPA 300.0	WETA/24581		
60143382010	**DR-4_20130425**	EPA 300.0	WETA/24581		
60143382011	**FB_20130425**	EPA 300.0	WETA/24581		
60143382001	**MW-1 DEEP_20130424**	EPA 353.2	WETA/24479		
60143382002	**MW-103_20130424**	EPA 353.2	WETA/24479		
60143382003	**DR-10_20130424**	EPA 353.2	WETA/24479		
60143382004	**MW-104_20130424**	EPA 353.2	WETA/24479		
60143382005	**DR-5_20130424**	EPA 353.2	WETA/24479		
60143382006	**DR-6_20130425**	EPA 353.2	WETA/24479		
60143382007	**DR-11_20130425**	EPA 353.2	WETA/24479		
60143382008	**DR-3_20130425**	EPA 353.2	WETA/24479		
60143382009	**DR-8_20130425**	EPA 353.2	WETA/24479		
60143382010	**DR-4_20130425**	EPA 353.2	WETA/24479		
60143382011	**FB_20130425**	EPA 353.2	WETA/24479		
60143382001	**MW-1 DEEP_20130424**	SM 4500-CN-E	WETA/24458		
60143382002	**MW-103_20130424**	SM 4500-CN-E	WETA/24458		
60143382003	**DR-10_20130424**	SM 4500-CN-E	WETA/24458		
60143382004	**MW-104_20130424**	SM 4500-CN-E	WETA/24458		
60143382005	**DR-5_20130424**	SM 4500-CN-E	WETA/24458		
60143382006	**DR-6_20130425**	SM 4500-CN-E	WETA/24458		
60143382007	**DR-11_20130425**	SM 4500-CN-E	WETA/24458		
60143382008	**DR-3_20130425**	SM 4500-CN-E	WETA/24458		
60143382009	**DR-8_20130425**	SM 4500-CN-E	WETA/24458		
60143382010	**DR-4_20130425**	SM 4500-CN-E	WETA/24458		
60143382011	**FB_20130425**	SM 4500-CN-E	WETA/24458		
60143382001	**MW-1 DEEP_20130424**	SM 5310C	WETA/24620		
60143382002	**MW-103_20130424**	SM 5310C	WETA/24620		
60143382003	**DR-10_20130424**	SM 5310C	WETA/24620		
60143382004	**MW-104_20130424**	SM 5310C	WETA/24620		
60143382005	**DR-5_20130424**	SM 5310C	WETA/24620		
60143382006	**DR-6_20130425**	SM 5310C	WETA/24620		
60143382007	**DR-11_20130425**	SM 5310C	WETA/24620		
60143382008	**DR-3_20130425**	SM 5310C	WETA/24620		
60143382009	**DR-8_20130425**	SM 5310C	WETA/24620		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: APRIL 2013 RICO WATER SAMPLING
Pace Project No.: 60143382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60143382010	**DR-4_20130425**	SM 5310C	WETA/24620		
60143382011	**FB_20130425**	SM 5310C	WETA/24620		

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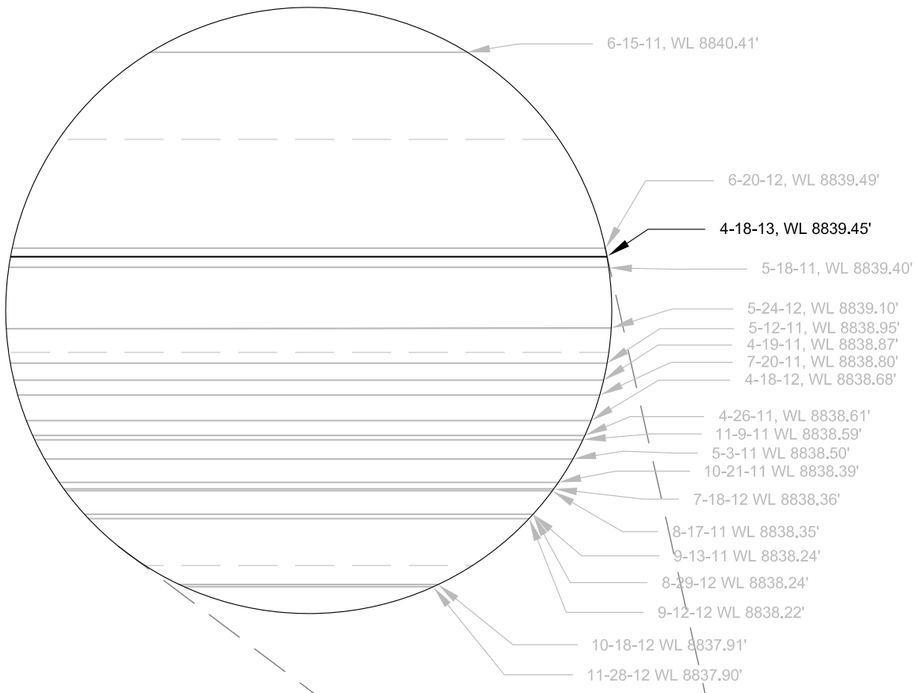
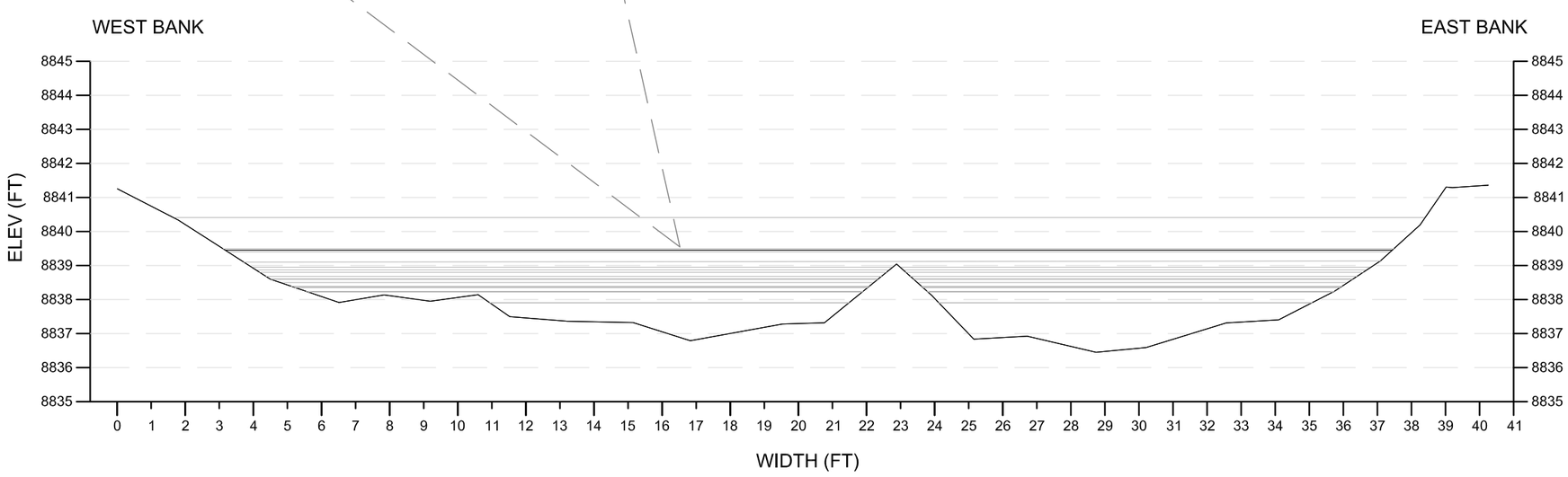
Appendix E

Flow Cross Sections



DR-1 CROSS SECTION



4 **CROSS SECTION AT DR-1**

SCALE - 1" = 4'

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General Notes

Scale in Feet
0 2 4

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

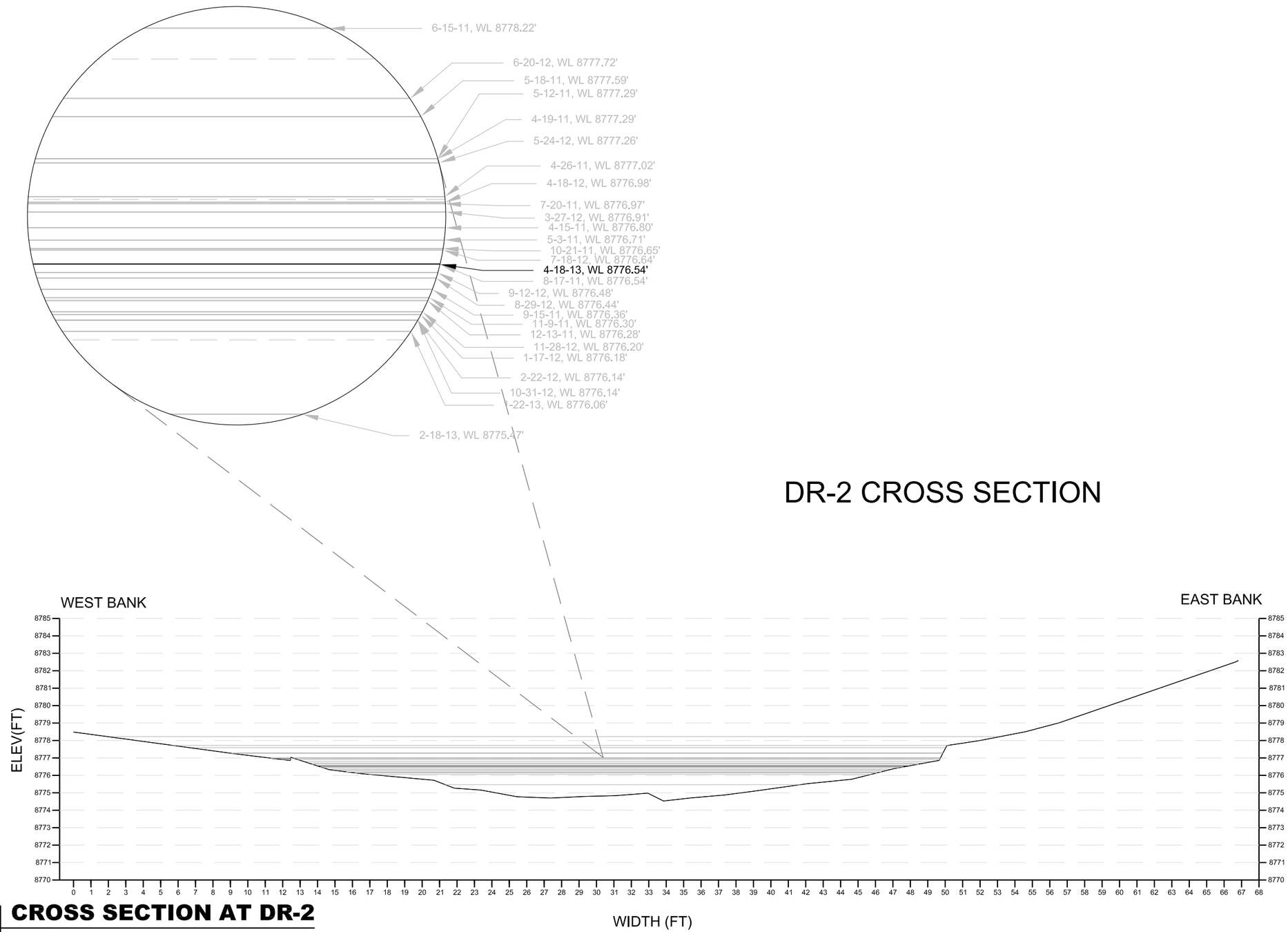
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-1

RICO, CO

Project	Figure
Date 18-APR-2013	4
Scale	



DR-2 CROSS SECTION

5 CROSS SECTION AT DR-2

SCALE - 1" = 6'

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General Notes

Scale in Feet
0 3 6

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

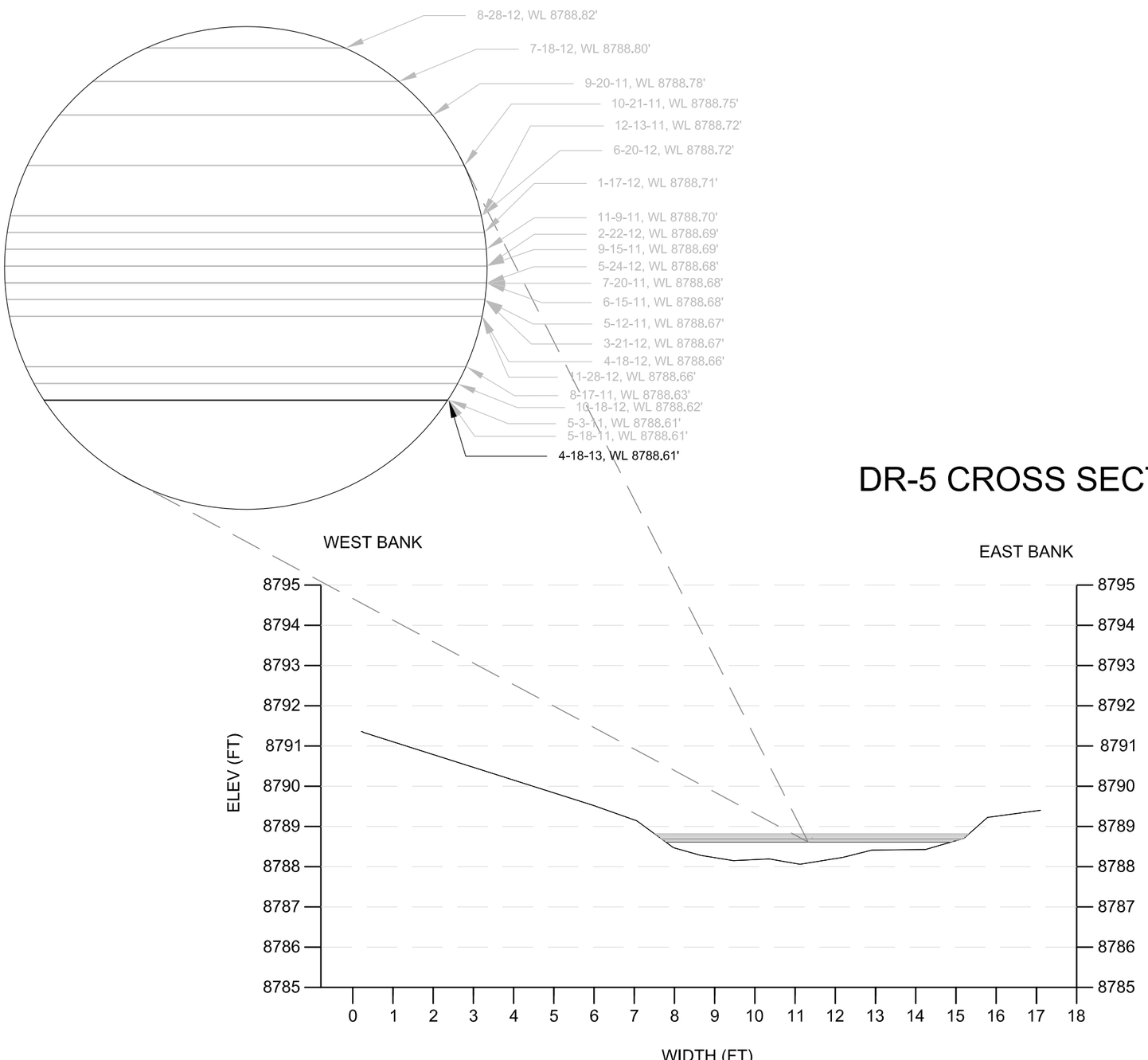
RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-2

RICO, CO

Project	Figure
Date 18-APR-2013	5
Scale	

DR-5 CROSS SECTION



6 **CROSS SECTION AT DR-5**

SCALE - 1" = 3'

General Notes

Scale in Feet

0 1.5 3

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON ENGINEERING COMPANY, INC.

DRAWN BY: MAD

ENGINEER: CS, MAD

APPROVED:

RICO SURFACE WATER SAMPLING

POND 8 EMBANKMENT CROSS SECTION AT SAMPLING STATION DR-5

RICO, CO

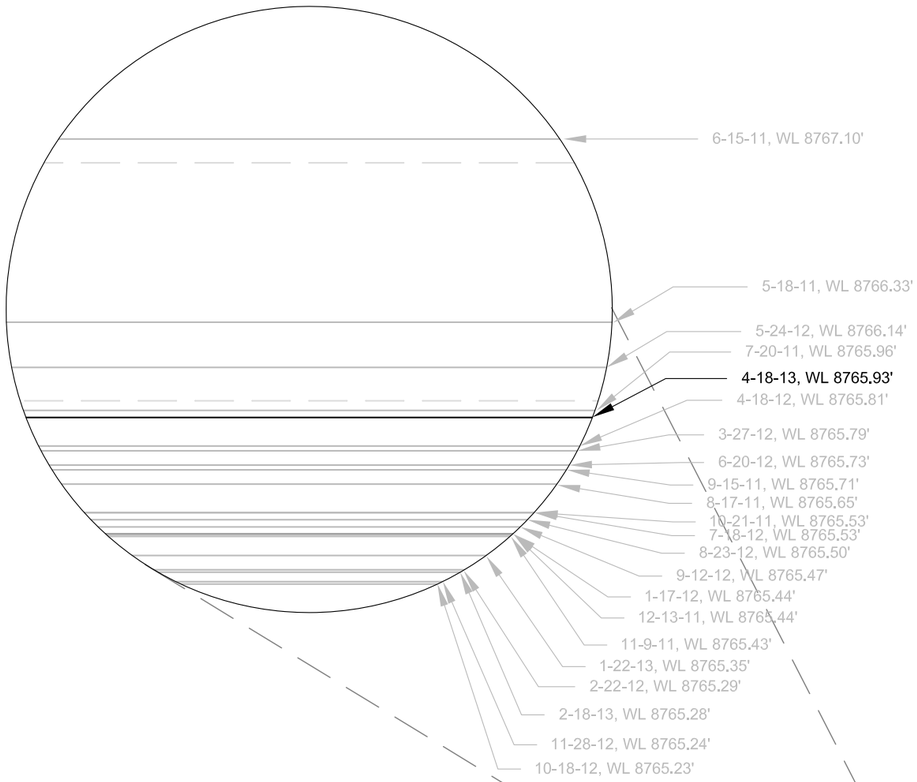
Project

Date 18-APR-2013

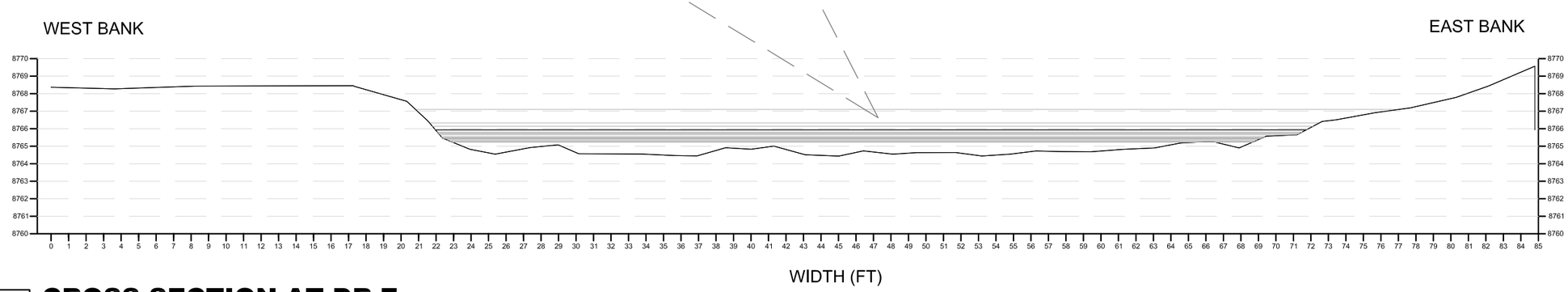
Scale

Figure 6

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



DR-7 CROSS SECTION



7 CROSS SECTION AT DR-7

SCALE - 1" = 7'

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

General Notes

Scale in Feet
0 3.5 7

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

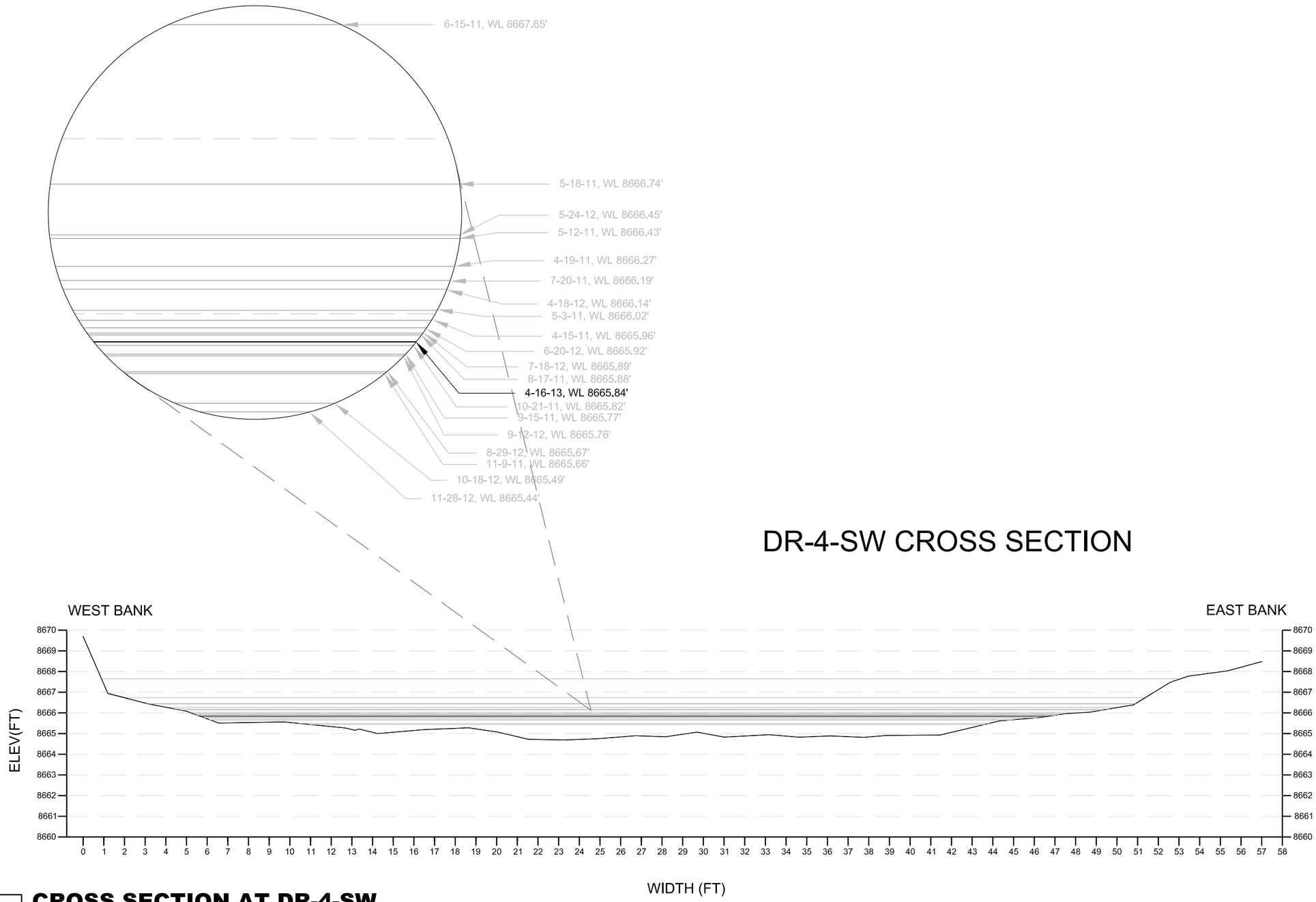
DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-7

RICO, CO

Project
Date 18-APR-2013
Scale
Figure 7



DR-4-SW CROSS SECTION

8 CROSS SECTION AT DR-4-SW

SCALE - 1" = 5'

General Notes

Scale in Feet
0 2.5 5

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON
ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

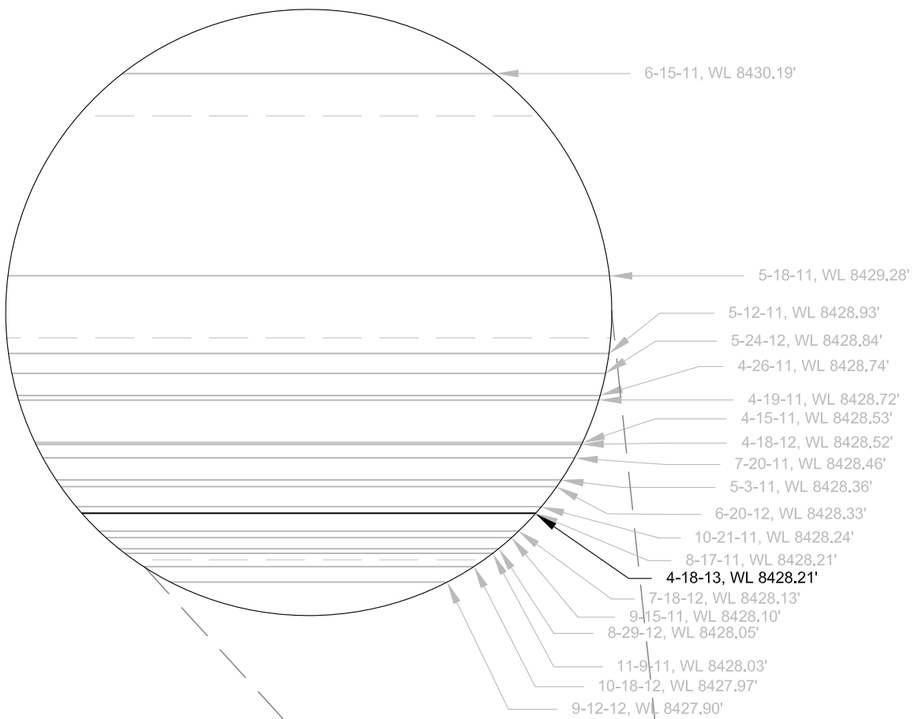
RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-4-SW

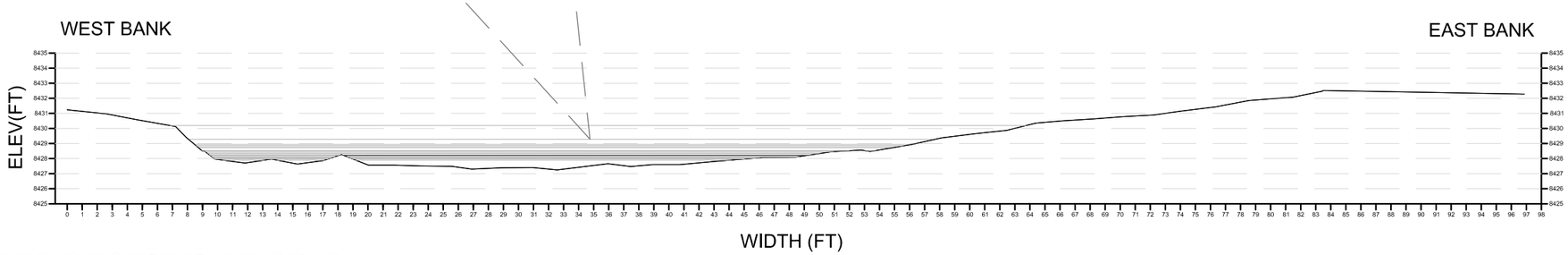
RICO, CO

Project
Date 16-APR-2013
Scale
Figure 8

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



DR-G CROSS SECTION



9 CROSS SECTION AT DR-G

SCALE - 1" = 9'

General Notes

Scale in Feet
0 4.5 9

No.	Revision/Issue	Date

ATLANTIC RICHFIELD COMPANY

ANDERSON ENGINEERING COMPANY, INC.

DRAWN BY: MAD
ENGINEER: CS, MAD
APPROVED:

RICO SURFACE WATER SAMPLING

DOLORES RIVER CROSS SECTION AT SAMPLING STATION DR-G

RICO, CO

Project
Date 18-APR-2013
Scale
Figure 9

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF ANDERSON ENGINEERING COMPANY, INC., 977 WEST 2100 SOUTH, SALT LAKE CITY, UTAH, 84119 AND SHALL NOT BE COPIED, REDUCED, OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Appendix F

Chain of Custody Records

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60141898

60141898

Client Name: BP Anderson

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 6015 5301 7799 / 7825 / 7803 Pace Shipping Label Used? Yes ☑ BO4-5-13 No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ ZPLC

Thermometer Used: T-112 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2, 3.0, 2.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 4-5-13 BA

Chain of Custody present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.	
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.	Hmw
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☑Yes ☐No ☐N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): _____	☐Yes ☐No ☑N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start: 1200	Start:
End: 1220	End:
Temp:	Temp:

Project Manager Review: Hmw Date: 4/5/13

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 1 of 1

Client: BP
Project: April 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

60141898

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS
GW-1	GW-1_20130403	4/3/2013	11:35 AM	W	8	X	X	X	X	X	X	X	X			1BP24 1BP3U 1BP32 12-5 1BP3C 12-5 1BA35 2BP3N 1-5 1BP3F 1-5 001
GW-3	GW-3_20130403	4/3/2013	10:48 AM	W	4	X	X	X		X						+ 4 5-13 002
GW-3	GW-3_20130403	4/3/2013	1:05 PM	W	2				X		X					011 ~~007~~
GW-3	GW-3_20130403	4/3/2013	3:30 PM	W	2							X	X			012 ~~007~~
GW-4	GW-4_20130402	4/2/2013	3:05 PM	W	8	X	X	X	X	X	X	X	X			003
GW-5	GW-5_20130402	4/2/2013	3:45 PM	W	8	X	X	X	X	X	X	X	X			004
GW-7	GW-7_20130402	4/2/2013	2:45 PM	W	8	X	X	X	X	X	X	X	X			005
MW-101	MW-101_20130402	4/2/2013	2:25 PM	W	8	X	X	X	X	X	X	X	X			006
MW-102	MW-102_20130402	4/2/2013	2:20 PM	W	8	X	X	X	X	X	X	X	X			007
MW-204	MW-204_20130402	4/3/2013	10:50 AM	W	8	X	X	X	X	X	X	X	X			008
AT-2	AT-2_20130403	4/3/2013	12:00 PM	W	8	X	X	X	X	X	X	X	X			009
DR-9	DR-9_20130403	4/3/2013	11:40 AM	W	8	X	X	X	X	X	X	X	X			010

4/26/13

Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	Special Instructions
[signature]	4-4-13	10:00 AM	[signature]	4-5-13	0845	2.2°C / 3.0°C / 2.8°C
Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*	Date	Time	

FLD-002

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60141898 **Workorder Name:** APRIL 2013 RICO WATER SAMPLING **Owner Received Date:** 4/5/2013 **Results Requested By:** 4/19/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Salinity	LAB USE ONLY 10224808
1	GW-1_20130403	PS	4/3/2013 11:35	60141898001	Water	1	X	001
2	GW-3_20130403	PS	4/3/2013 10:48	60141898002	Water	1	X	002
3	GW-4_20130402	PS	4/2/2013 15:05	60141898003	Water	1	X	003
4	GW-5_20130402	PS	4/2/2013 15:45	60141898004	Water	1	X	004
5	GW-7_20130402	PS	4/2/2013 14:45	60141898005	Water	1	X	005
6	MW-101_20130402	PS	4/2/2013 14:25	60141898006	Water	1	X	006
7	MW-102_20130402	PS	4/2/2013 14:20	60141898007	Water	1	X	007
8	MW-204_20130402	PS	4/3/2013 10:50	60141898008	Water	1	X	008
9	AT-2_20130403	PS	4/3/2013 12:00	60141898009	Water	1	X	009
10	DR-9_20130403	PS	4/3/2013 11:40	60141898010	Water	1	X	010

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	4/8/13 1700		
2	[illegible]		[illegible] - Pace	4/9/13 1316
3				

Comments: No J-flags

Cooler Temperature on Receipt 1.2 °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

Page 90 of 93

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace-KS

Project #: WO#: 10224808 (10224808)

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 5552 4796 2474

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer Used: ☑ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read: 1.2 **Date and Initials of Person Examining Contents:** DAW 2/9/15

Cooler Temp Corrected: 1.2 **Biological Tissue Frozen?** ~~☑ Yes~~ ☒ No DAW 2/9/15

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.
-Includes Date/Time/ID/Analysis Matrix: H_2O				
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☒ N/A	Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: _____ Lot # of added preservative:
Samples checked for dechlorination?	☐ Yes	☐ No	☒ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 4-9-15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Chain of Custody

1127

10224849

Pace Analytical®
www.pacelabs.com

Workorder: 60141898 **Workorder Name:** APRIL 2013 RICO WATER SAMPLING **Owner Received Date:** 4/5/2013 **Results Requested By:** 4/19/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Total Metal + Hardness + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	GW-1_20130403	PS	4/3/2013 11:35	60141898001	Water	2						X	X	X	X									
2	GW-3_20130403	PS	4/3/2013 10:48	60141898002	Water	2						X	X	X	X									
3	GW-4_20130402	PS	4/2/2013 15:05	60141898003	Water	2						X	X	X	X									
4	GW-5_20130402	PS	4/2/2013 15:45	60141898004	Water	2						X	X	X	X									
5	GW-7_20130402	PS	4/2/2013 14:45	60141898005	Water	2						X	X	X	X									
6	MW-101_20130402	PS	4/2/2013 14:25	60141898006	Water	2						X	X	X	X									
7	MW-102_20130402	PS	4/2/2013 14:20	60141898007	Water	2						X	X	X	X									
8	MW-204_20130402	PS	4/3/2013 10:50	60141898008	Water	2						X	X	X	X									
9	AT-2_20130403	PS	4/3/2013 12:00	60141898009	Water	2						X	X	X	X									
10	DR-9_20130403	PS	4/3/2013 11:40	60141898010	Water	2						X	X	X	X									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	4/8/13 1800	[signature] Pace	4/9/13 9:20
2				
3				

Comments: Use Profile 26985
No J flags

Cooler Temperature on Receipt 9.6 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical®	Document Name: Sample Condition Upon Receipt Form	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: F-MN-L-213-rev.06	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Pace, IKS

Project WO# : 10224849

10224849

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 5552 4796 2441

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other: P.B **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☑ B88A912167504 ☐ 80512447 ☐ 72337080 **Type of Ice:** ☐ Wet ☐ Blue ☑ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 9.6 **Cooler Temp Corrected (°C):** 9.6 **Biological Tissue Frozen?** ☐ Yes ☑ No

Temp should be above freezing to 6°C **Correction Factor:** True **Date and Initials of Person Examining Contents:** CW 4/9/13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☑ Yes	☑ No	☐ N/A	11. CW 4/9/13
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☑ Yes	☐ No	☐ N/A	Sample # 1-10 2/2
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: CW Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: To OK metals only

Project Manager Review: [signature] **Date:** 4/10/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60142948

60142948

Optional
Proj Due Date:
Proj Name:

Client Name: BP Anderson

Courier: Fed Ex ☐ UPS ☑ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 1Z 733 W8 784 4877 3559 4958 1150 4953 7893 4996 3940 4856 1135 Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☐ No ☑ Seals intact: Yes ☐ No ☑

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ ZPLC

Thermometer Used: T-112 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.6, 5.2, 4.8, 5.8, 5.8

Date and initials of person examining contents: 4-19-13 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.	
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☑Yes ☐No ☐N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): _____	☐Yes ☐No ☑N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start: 1150	Start:
End: 1210	End:
Temp:	Temp:

Project Manager Review: MW Date: 4/22/13
MW 4/30/13

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 1 of 3

Client: BP
Project: April 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

60142948

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS	
	DR-4-SW_20130416	4/16/2013	5:11 PM	W	8	X	X	X	X	X	X	X	X			1BP3N 1BP3N 1BP3N 2BP3N 1AG3S 1BP32 1BP3C	001
	DR-G_20130416	4/16/2013	3:35 PM	W	8	X	X	X	X	X	X	X	X				002
	DR-4-SW COMPOSITE_20130416	4/16/2013	4:44 PM	W	8	X	X	X	X	X	X	X	X				003
	MW-5 DEEP_20130416	4/16/2013	12:50 PM	W	8	X	X	X	X	X	X	X	X				004
	GW-6_20130416	4/16/2013	11:35 AM	W	8	X	X	X	X	X	X	X	X				005
	MW-5 SHALLOW_20130416	4/16/2013	12:50 PM	W	8	X	X	X	X	X	X	X	X				006

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
[signature]	4/18/13	1:47PM	[signature]	4-19-13	1040	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 2 of 3

Client: BP
Project: April 2013 Rico Water Sampling
AECI Contact Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

601 42948

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS
	P13-103_20130117	4/17/2013	3:01 PM	W	8	X	X	X	X	X	X	X	X			1BP2U 1BP3U 1AG3S 1BP32 1BP3C 1BP3F 1BP3N 007
	EB-1_20130417	4/17/2013	9:45 AM	W	8	X	X	X	X	X	X	X	X			008
	MW-6 SHALLOW_20130417	4/17/2013	10:31 AM	W	8	X	X	X	X	X	X	X	X			009
	P13-102_20130417	4/17/2013	11:05 AM	W	8	X	X	X	X	X	X	X	X			010
	MW-6 DEEP_20130417	4/17/2013	10:45 AM	W	8	X	X	X	X	X	X	X	X			011
	MW-3 DEEP_20130417	4/17/2013	1:09 PM	W	8	X	X	X	X	X	X	X	X			012
	MW-4 SHALLOW_20130417	4/17/2013	2:08PM	W	8	X	X	X	X	X	X	X	X			013
	MW -4 DEEP_20130417	4/17/2013	2:28PM	W	8	X	X	X	X	X	X	X	X			014
	MW -1 SHALLOW_20130417	4/17/2013	2:45 PM	W	8	X	X	X	X	X	X	X	X			015
	MW -2 DEEP_20130417	4/17/2013	1:49PM	W	8	X	X	X	X	X	X	X	X			016
	EB 2_20130417	4/17/2013	9:55 AM	W	8	X	X	X	X	X	X	X	X			017

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
	4/18/13	1:45 PM	Bernd Cl	4-19-13	1040	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 3 of 3

Client: BP
Project: April 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

60142948

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS
	DR-7_20130418	4/18/2013	10:00 AM	W	8	X	X	X	X	X	X	X	X			1BP2U 1BP3U 1AG3S 1BP32 1.5 1BP3C 1.5 1BP3C 1.5 2BP3N 1.5 018
	DR-7 COMPOSITE_20130418	4/18/2013	10:00 AM	W	8	X	X	X	X	X	X	X	X			019
	DR-2_20130418	4/18/2013	11:00AM	W	8	X	X	X	X	X	X	X	X			020
	DR-2 COMPOSITE_20130418	4/18/2013	11:00 AM	W	8	X	X	X	X	X	X	X	X			021
	DR-1_20130418	4/18/2013	12:00PM	W	8	X	X	X	X	X	X	X	X			022
	DR-1 COMPOSITE_20130418	4/18/2013	12:00PM	W	8	X	X	X	X	X	X	X	X			023
																~~024~~

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
	4/18/13	1:41 PM		4-19-13	1040	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60142948 **Workorder Name:** April 2013 Rico Water Sampling **Owner Received Date:** 4/19/2013 **Results Requested By:** 5/3/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Salinity	LAB USE ONLY 10226239
1	DR-4 SW_20130416	PS	4/16/2013 17:11	60142948001	Water	1	X	001
2	DR-G _20130416	PS	4/16/2013 15:35	60142948002	Water	1	X	002
3	DR-4-SW	PS	4/16/2013 16:44	60142948003	Water	1	X	003
4	MW-5 DEEP_20130416	PS	4/16/2013 12:50	60142948004	Water	1	X	004
5	GW-6_20130416	PS	4/16/2013 11:35	60142948005	Water	1	X	005
6	MW-5 SHALLOW_20130416	PS	4/16/2013 12:50	60142948006	Water	1	X	006
7	P13-103_20130417	PS	4/17/2013 15:01	60142948007	Water	1	X	007
8	EB-1_20130417	PS	4/17/2013 09:45	60142948008	Water	1	X	008
9	MW-6 SHALLOW_20130417	PS	4/17/2013 10:31	60142948009	Water	1	X	009
10	P13-102_20130417	PS	4/17/2013 11:05	60142948010	Water	1	X	010
11	MW-6 DEEP_20130417	PS	4/17/2013 10:45	60142948011	Water	1	X	011
12	MW-3 DEEP_20130417	PS	4/17/2013 13:09	60142948012	Water	1	X	012
13	MW-4 SHALLOW_20130417	PS	4/17/2013 14:08	60142948013	Water	1	X	013
14	MW-4 DEEP_20130417	PS	4/17/2013 14:28	60142948014	Water	1	X	014
15	MW-1 SHALLOW_20130417	PS	4/17/2013 14:45	60142948015	Water	1	X	015
16	MW-2 DEEP_20130417	PS	4/17/2013 13:49	60142948016	Water	1	X	016
17	EB-2_20130417	PS	4/17/2013 09:55	60142948017	Water	1	X	017
18	DR-7_20130418	PS	4/18/2013 10:00	60142948018	Water	1	X	018
19	DR-7 COMPOSITE _20130418	PS	4/18/2013 10:00	60142948019	Water	1	X	019

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 60142948 **Workorder Name:** April 2013 Rico Water Sampling **Owner Received Date:** 4/19/2013 **Results Requested By:** 5/3/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none						Requested Analysis: Salinity												LAB USE ONLY
20	DR-2_20130418	PS	4/18/2013 11:00	60142948020	Water	1						X												020
21	DR-2 COMPOSITE_20130418	PS	4/18/2013 11:00	60142948021	Water	1						X												021
22	DR-1_20130418	PS	4/18/2013 12:00	60142948022	Water	1						X												022
23	DR-1 COMPOSITE _20130418	PS	4/18/2013 12:00	60142948023	Water	1						X												023
24																								

10226239

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	4/22/13 1700		
2	[signature]	4/23/13 1446	Norma C. Trankelofico	4/23/13 1446
3				

Comments: No J flags

Cooler Temperature on Receipt 1.2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace KS

Project #: WO#: 10226239 (10226239)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 5552 4796 3297

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer Used: ☒ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read: 1.2 **Date and Initials of Person Examining Contents:** NCT 4/23/13

Cooler Temp Corrected: 1.2 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: H_2O	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination?	☐ Yes	☐ No	☒ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 4-24-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Chain of Custody

Pace Analytical®
www.pacelabs.com

10226257

Workorder: 60142948 **Workorder Name:** April 2013 Rico Water Sampling **Owner Received Date:** 4/19/2013 **Results Requested By:** 5/3/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Total Metal + Hardness + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
1	DR-4 SW_20130416	PS	4/16/2013 17:11	60142948001	Water	2						X	X	X	X									
2	DR-G _20130416	PS	4/16/2013 15:35	60142948002	Water	2						X	X	X	X									
3	DR-4-SW	PS	4/16/2013 16:44	60142948003	Water	2						X	X	X	X									
4	MW-5 DEEP_20130416	PS	4/16/2013 12:50	60142948004	Water	2						X	X	X	X									
5	GW-6_20130416	PS	4/16/2013 11:35	60142948005	Water	2						X	X	X	X									
6	MW-5 SHALLOW_20130416	PS	4/16/2013 12:50	60142948006	Water	2						X	X	X	X									
7	P13-103_20130117	PS	4/17/2013 15:01	60142948007	Water	2						X	X	X	X									
8	EB-1_20130417	PS	4/17/2013 09:45	60142948008	Water	2						X	X	X	X									
9	MW-6 SHALLOW_20130417	PS	4/17/2013 10:31	60142948009	Water	2						X	X	X	X									
10	P13-102_20130417	PS	4/17/2013 11:05	60142948010	Water	2						X	X	X	X									
11	MW-6 DEEP_20130417	PS	4/17/2013 10:45	60142948011	Water	2						X	X	X	X									
12	MW-3 DEEP_20130417	PS	4/17/2013 13:09	60142948012	Water	2						X	X	X	X									
13	MW-4 SHALLOW_20130417	PS	4/17/2013 14:08	60142948013	Water	2						X	X	X	X									
14	MW-4 DEEP_20130417	PS	4/17/2013 14:28	60142948014	Water	2						X	X	X	X									
15	MW-1 SHALLOW_20130417	PS	4/17/2013 14:45	60142948015	Water	2						X	X	X	X									
16	MW-2 DEEP_20130417	PS	4/17/2013 13:49	60142948016	Water	2						X	X	X	X									
17	EB-2_20130417	PS	4/17/2013 09:55	60142948017	Water	2						X	X	X	X									
18	DR-7 _20130418	PS	4/18/2013 10:00	60142948018	Water	2						X	X	X	X									
19	DR-7 COMPOSITE _20130418	PS	4/18/2013 10:00	60142948019	Water	2						X	X	X	X									

Chain of Custody

Pace Analytical®
www.pacelabs.com

10226257s

Workorder: 60142948 **Workorder Name:** April 2013 Rico Water Sampling **Owner Received Date:** 4/19/2013 **Results Requested By:** 5/3/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Total Metal + Hardness + Silica	200.8 Dissolved Metals	245.1 Total Mercury	245.1 Dissolved Mercury									LAB USE ONLY
20	DR-2_20130418	PS	4/18/2013 11:00	60142948020	Water	2						X	X	X	X									
21	DR-2 COMPOSITE_20130418	PS	4/18/2013 11:00	60142948021	Water	2						X	X	X	X									
22	DR-1_20130418	PS	4/18/2013 12:00	60142948022	Water	2						X	X	X	X									
23	DR-1 COMPOSITE _20130418	PS	4/18/2013 12:00	60142948023	Water	2						X	X	X	X									
24																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	4/22/13 1700	CSI / pace	4/23/13 9:32
2				
3				

Comments
Use Profile 26985
No J flags

Cooler Temperature on Receipt 10.6 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.06**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: _____ **Project #:** WO# : 10226257

10226257

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 5552 4746 3301

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☑ B88A912167504 ☐ 80512447 ☐ 72337080 **Type of Ice:** ☐ Wet ☐ Blue ☑ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 9.2 **Cooler Temp Corrected (°C):** 10.0 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** +.8 **Date and Initials of Person Examining Contents:** CJ 4-23-13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☒ Yes EK 4-24	☐ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 1-1 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample # ALL
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: CJ Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Karla Xiong **Date:** 4-24-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60143382
60143382

Client Name: BP Anderson

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☑ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 1Z 733 W87 84 4974 9173 (4788 3183 / 4865 9997)

Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ ZPLC

Thermometer Used: T-112 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.0, 1.4, 0.2

Date and initials of person examining contents: 4-26-13 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☑Yes ☐No ☐N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☐Yes ☐No ☑N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐Yes ☐No ☑N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start: 1100	Start:
End: 1120	End:
Temp:	Temp:

Project Manager Review: [signature] mw Date: 4/26/13 4/30/13

ANDERSON
ENGINEERING COMPANY INC.

977 West 2100 South
Salt Lake City, UT 84119
(801) 972-6222
FAX (801) 972-6235

CHAIN OF CUSTODY RECORD

COC# _____
Page 1 of 1

Client: BP
Project: April 2013 Rico Water Sampling
AECI Contact: Mark DeFriez (801) 234-9583

Lab Name: Pace Analytical Services
Lab Contact: Heather Wilson, (913) 563-1407
Lab Address: 9608 Loiret Blvd.
Lenexa, KS 66219

Matrix Codes
(W) Water
(S) Soil
(L) Liquid

QC: (circle one)
I II III IV

60143382

Field Location	Field Sample ID Number	Date	Time	Matrix	No. of Containers	Total Metals / Hardness / Silica	Potentially Dissolved Metals	Dissolved Metals	Alkalinity / TDS / TSS / Sulfate / Chloride	Cyanide	Salinity	Total Organic Carbon / Nitrate	Sulfide			COMMENTS	
MW-1 DEEP	MW-1 DEEP_20130424	4/24/2013	2:35 PM	W	8	X	X	X	X	X	X	X	X			1BP24 1BP3U 1BPSC 1BPSZ 1A635 2BP3N 1BP3F	001
MW-103	MW-103_20130424	4/24/2013	3:40 PM	W	8	X	X	X	X	X	X	X	X				002
DR-10	DR-10_20130424	4/24/2013	3:45 PM	W	8	X	X	X	X	X	X	X	X				003
MW-104	MW-104_20130424	4/24/2013	4:13 PM	W	8	X	X	X	X	X	X	X	X				004
DR-5	DR-5_20130424	4/24/2013	4:30 PM	W	8	X	X	X	X	X	X	X	X				005
DR-6	DR-6_20130425	4/25/2013	9:15 AM	W	8	X	X	X	X	X	X	X	X				006
DR-11	DR-11_20130425	4/25/2013	9:17 AM	W	8	X	X	X	X	X	X	X	X				007
DR-3	DR-3_20130425	4/25/2013	10:20 AM	W	8	X	X	X	X	X	X	X	X				008
DR-8	DR-8_20130425	4/25/2013	10:22 AM	W	8	X	X	X	X	X	X	X	X				009
DR-4	DR-4_20130425	4/25/2013	10:30 AM	W	8	X	X	X	X	X	X	X	X				010
FB	FB_20130425	4/25/2013	11:15 AM	W	8	X	X	X	X	X	X	X	X				011

Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	Special Instructions
[signature]	4/25/13	14:00	[signature]	4-26-13	0935	2.0°C 1.4°C 0.2°C
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	
Relinquished By: *signature*	Date	Time	Received By: *signature*		Time	

FLD-002

Chain of Custody

Pace Analytical
www.pacelabs.com

Workorder: 60143382 **Workorder Name:** APRIL 2013 RICO WATER SAMPLING **Owner Received Date:** 4/26/2013 **Results Requested By:** 5/10/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Billings MT 602 S 25th Street Billings, MT, MT 591014549 Phone (406) 254-7226

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Salinity	LAB USE ONLY (10227032)
1	MW-1 DEEP_2013424	PS	4/24/2013 14:35	60143382001	Water	1	X	001
2	MW-103_2013424	PS	4/24/2013 15:40	60143382002	Water	1	X	002
3	DR-10_2013424	PS	4/24/2013 15:45	60143382003	Water	1	X	003
4	MW-104_2013424	PS	4/24/2013 16:13	60143382004	Water	1	X	004
5	DR-5_2013424	PS	4/24/2013 16:30	60143382005	Water	1	X	005
6	DR-6_2013425	PS	4/25/2013 09:15	60143382006	Water	1	X	006
7	DR-11_2013425	PS	4/25/2013 09:17	60143382007	Water	1	X	007
8	DR-3_2013425	PS	4/25/2013 10:20	60143382008	Water	1	X	008
9	DR-8_2013425	PS	4/25/2013 10:22	60143382009	Water	1	X	009
10	DR-4_2013425	PS	4/25/2013 10:30	60143382010	Water	1	X	010
11	FB_2013425	PS	4/25/2013 11:15	60143382011	Water	1	X	011

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	4/26/13 1700		
2	[illegible]		M Walter Pace	4/26/13 1435
3				

Comments: No Jflags

Cooler Temperature on Receipt 0.8 °C Custody Seal (Y) or N Received on Ice (Y) or N Samples Intact (Y) or N

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 14Nov2012 Page 1 of 1
	Document No.: **F-MT-C-184-rev.02**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace - KS

Project #: WO#: 10227032 (10227032)

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other: _____

Tracking Number: 5552 4796 3654

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer Used: ☒ 1383045 ☐ 135 ☐ NA **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☒ Samples on ice, cooling process has begun

Cooler Temp Read: 0.8 **Date and Initials of Person Examining Contents:** MW 4/30/13

Cooler Temp Corrected: 0.8 **Biological Tissue Frozen?** ☐ Yes ☒ No

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: H_2O	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: _____ Lot # of added preservative: _____
Samples checked for dechlorination?	☐ Yes	☐ No	☒ N/A	14.
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	16.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased): _____				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [signature] **Date:** 4-30-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Chain of Custody

Pace Analytical®
www.pacelabs.com

10226995

Workorder: 60143382 **Workorder Name:** APRIL 2013 RICO WATER SAMPLING **Owner Received Date:** 4/26/2013 **Results Requested By:** 5/10/2013

Report To	Subcontract To
Heather Wilson Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: HNO3						Requested Analysis: 200.8 Total Metal + Hardness + Silica	245.1 Total Mercury	200.8 Dissolved Metals	245.1 Dissolved Mercury									LAB USE ONLY
1	MW-1 DEEP_2013424	PS	4/24/2013 14:35	60143382001	Water	2						X	X	X	X									
2	MW-103_2013424	PS	4/24/2013 15:40	60143382002	Water	2						X	X	X	X									
3	DR-10_2013424	PS	4/24/2013 15:45	60143382003	Water	2						X	X	X	X									
4	MW-104_2013424	PS	4/24/2013 16:13	60143382004	Water	2						X	X	X	X									
5	DR-5_2013424	PS	4/24/2013 16:30	60143382005	Water	2						X	X	X	X									
6	DR-6_2013425	PS	4/25/2013 09:15	60143382006	Water	2						X	X	X	X									
7	DR-11_2013425	PS	4/25/2013 09:17	60143382007	Water	2						X	X	X	X									
8	DR-3_2013425	PS	4/25/2013 10:20	60143382008	Water	2						X	X	X	X									
9	DR-8_2013425	PS	4/25/2013 10:22	60143382009	Water	2						X	X	X	X									
10	DR-4_2013425	PS	4/25/2013 10:30	60143382010	Water	2						X	X	X	X									
11	FB_2013425	PS	4/25/2013 11:15	60143382011	Water	2						X	X	X	X									

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	4/29/13 1700	[illegible]	4/30/13 9:05
2				
3				

Comments

Use Profile 26985
No Jflags

Cooler Temperature on Receipt 14.7 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 28Jan2013 Page 1 of 1
	Document No.: **F-MN-L-213-rev.06**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: KS

Project #: WO# : 10226995

10226995

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 5552 4796 3665

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other: **Temp Blank?** ☐ Yes ☑ No

Thermom. Used: ☑ B88A912167504 01243013 ☐ 80512447 ☑ 72337080 **Type of Ice:** ☐ Wet ☐ Blue ☑ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 14.1 **Cooler Temp Corrected (°C):** 14.7 **Biological Tissue Frozen?** ☐ Yes ☐ No

Temp should be above freezing to 6°C **Correction Factor:** 4.6 **Date and Initials of Person Examining Contents:** SJL 4-30-13

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☑ Yes	☐ No	☐ N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13.	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample # 2-2 ALL
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH>12)	☑ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☑ No		Initial when completed: CY Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: Took metals only

Project Manager Review: [signature] **Date:** 4/30/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Appendix G

Field Photos

April 2013 Field Photos

Cross Section at Station DR-1

Cross Section at Station DR-5

Cross Section at Station DR-7

Cross Section at Station DR-4-SW

Cross Section at Station DR-G

Appendix H

Field Log Book Records

Rico Water Sampling: Sampling Event Main Checklist **April 2013**

Check off each item as their corresponding forms are completed. An item is **NOT** to be checked off until its cooresponding form is completed in full. If a water sample cannot be completed, its sampling form **must** still be completed, noting reasons for problems, and it still must be checked off on this list.

Surface Water Samples

Grab Samples

- [x] DR-1 4/18/13
- [x] DR-2 4/18/13
- [x] DR-3
- [x] DR-4
- [x] DR-5
- [x] DR-6
- [x] DR-7 4/18/13
- [x] DR-4-SW 4-16-13
- [x] DR-G 4-16-13

Composite Samples

- [x] DR-1 COMPOSITE 4/18/13
- [x] DR-2 COMPOSITE 4/18/13
- [x] DR-7 COMPOSITE 4/18/13
- [x] DR-4-SW COMPOSITE 4-16-13

Groundwater Samples

- [x] GW-1 4-3-13
- [x] GW-3 4-3-13
- [x] GW-4 4-2-13
- [x] GW-5 4-2-13
- [x] GW-6 4-16-13
- [x] GW-7 4-2-13
- [x] EB-1 4-17-13
- [x] EB-2 4-17-13
- [x] MW-101 4-2-13
- [x] MW-102 4-2-13
- [x] MW-103
- [x] MW-104
- [x] MW-202
- ~~MW-203~~
- [x] MW-204 4-3-13
- [x] P13-102 4/17/13
- [x] P13-103 4/17/13
- [x] MW-1 DEEP
- [x] MW-1 SHALLOW 4-17-13
- [x] MW-2 DEEP 4-17-13
- [x] MW-2 SHALLOW 4-17-13 DRY
- [x] MW-3 DEEP 4-17-13

Groundwater Samples (cont.)

- [x] MW-3 SHALLOW 4-17-13 Dry
- [x] MW-4 DEEP 4-17-13
- [x] MW-4 SHALLOW 4-17-13
- [x] MW-5 DEEP 4/16/13
- [x] MW-5 SHALLOW 4/16/13
- [x] MW-6 DEEP 4/17/13
- [x] MW-6 SHALLOW 4/17/13

Other Samples

- [x] AT-2 (DATA NEEDS TO BE DOWNLOADED)

Quality Control Samples

Blind Duplicates

- [x] DR-8
- [x] DR-9 4-3-13
- [x] DR-10
- [x] DR-11

Field Blanks

- [x] FB

Flowrate Measurements

- [x] DR-1 4/18/13
- [x] DR-2 4/18/13
- [x] DR-7 4/18/13
- [x] DR-4-SW 4/16/13
- [x] DR-G 4/16/13
- [x] DR-1A
- [x] DR-2A
- [x] DR-3A

Additional Tasks

- [x] Pond inspection completed
- [x] Pond water levels measured

Pico Water Sampling Form: *Station Information*

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-1**

Date of Sample Collection: 4-18-2013

Time of Sample Collection: 1210

Sampler's Identity: AB AB TT

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Picture taken of cross section? ☑ Yes

By whom? TT

*Email photo to mdefriez@andersoneng.com

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
8.06	291	8.55	0.4	-68.0

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-1_201304	18	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-1_201304	18	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-1_201304	18	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-1_201304	18	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-1_201304	18	Salinity	250 mL / HDPE / None
X	DR-1_201304	18	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-1_201304	18	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-1_201304	18	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

6:57 4/18

Pico Water Sampling Form: *Station Information*

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-2**

Date of Sample Collection: 4.18.2013

Time of Sample Collection: 1100

Sampler's Identity: TB TB TB

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Picture taken of cross section? ☑ Yes

By whom? TB

*Email photo to mdefriez@andersoneng.com

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
7.78	345	8.53	-0.11	-74.7

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-2_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-2_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-2_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-2_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-2_201304	16	Salinity	250 mL / HDPE / None
X	DR-2_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-2_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-2_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location:	**DR-3**
Date(s) of Sample Collection:	4-25-13
Time(s) of Sample Collection:	1020
Sampler's Identity:	BL

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV	Manual Flume Water Depth Measurement, ft
7.13	1422	1.59	16.98	-47.1	0.51'

Data downloaded from transducer? ☑ Yes ☐ No
Has transducer been cleaned and recalibrated? ☑ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-3_201304	25	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-3_201304	25	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-3_201304	25	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-3_201304	25	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-3_201304	25	Salinity	250 mL / HDPE / None
X	DR-3_201304	25	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-3_201304	25	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-3_201304	25	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Pico Water Sampling Form: *Station Information*

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-4**

Date of Sample Collection: 4-25-13

Time of Sample Collection: 1030

Sampler's Identity: BL

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
7.95	1454	2.49	12.87	-42.8

Discharge Pipe Flowrates			
Upper Pipe		Lower Pipe	
Depth	Velocity	Depth	Velocity
0.24		0.02	

*If measuring pipe discharge by other means, describe in "Notes" section

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-4_201304	25	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-4_201304	25	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-4_201304	25	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-4_201304	25	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-4_201304	25	Salinity	250 mL / HDPE / None
	DR-4_201304	25	Cyanide	250 mL / HDPE / NaOH (GREEN)
	DR-4_201304	25	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-4_201304	25	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

.78/100th sec = 2 gal/min @ 50% flow

28.7 sec 1.25 gal/min @ 100% of flow

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-6**

Date of Sample Collection: 4-25-13

Time of Sample Collection: 915

Sampler's Identity: BL

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV	Manual Flume Water Depth Measurement, ft
7.57	1506	2.03	12.30	-48.5	0.45 2.05

Data downloaded from transducer? ☑ Yes ☐ No

Has transducer been cleaned and recalibrated? ☐ Yes ☑ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

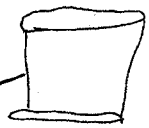
X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-6_201304	25	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-6_201304	25	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-6_201304	25	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-6_201304	25	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-6_201304	25	Salinity	250 mL / HDPE / None
X	DR-6_201304	25	Cyanide	250 mL / HDPE / NaOH (GREEN)
	DR-6_201304	25	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	DR-6_201304	25	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

0.58

~~2.25~~

2.025



Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-7**

Date of Sample Collection: 4-18-2013

Time of Sample Collection: 10:00

Sampler's Identity: TB TB TT

Picture taken of cross section? ☑ Yes

By whom? TB

*Email photo to mdefriez@andersoneng.com

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
7.34	489	8.54	0.19	-56.6

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-7_201304	18	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-7_201304	18	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-7_201304	18	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-7_201304	18	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-7_201304	18	Salinity	250 mL / HDPE / None
X	DR-7_201304	18	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-7_201304	18	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-7_201304	18	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-4-SW**

Date of Sample Collection: 4·16·2013

Time of Sample Collection: 17:11

Sampler's Identity: TB TB

Picture taken of cross section? ☑ Yes

By whom? TB

*Email photo to mdefriez@andersoneng.com

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
8.22	429	5.80	7.48	-61.1

5:11

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-4-SW_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-4-SW_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-4-SW_201304	16	Salinity	250 mL / HDPE / None
✓	DR-4-SW_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-4-SW_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-4-SW_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

[X] Surface Water [ ] Groundwater [ ] Other

Sample Location: **DR-G**

Date of Sample Collection: 4-16-2013

Time of Sample Collection: 15:35

Sampler's Identity: TB TB

Picture taken of cross section? [X] Yes

By whom? TB

*Email photo to mdefriez@andersoneng.com

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
9.85	402	6.56	9.29	-112.4

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-G_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-G_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-G_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-G_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-G_201304	16	Salinity	250 mL / HDPE / None
X	DR-G_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-G_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-G_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

[X] Surface Water [ ] Groundwater [ ] Other

Sample Location: **DR-8**

Date of Sample Collection: 4-25-13

Time of Sample Collection: 1022

Sampler's Identity: BL

***Duplicate sample of:** DR-3

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
7.07	1412	1.68	17.72	-43.6

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-8_201304	25	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-8_201304	25	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-8_201304	25	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-8_201304	25	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-8_201304	25	Salinity	250 mL / HDPE / None
X	DR-8_201304	25	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-8_201304	25	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-8_201304	25	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **DR-9**

Date of Sample Collection: 4-3-13
Time of Sample Collection: 1140
Sampler's Identity: JT
***Duplicate sample of:** GW-1

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
7.79	~~3~~6 362	9.98	7.10	-69.1

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	DR-9_201304 03	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-9_201304 03	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-9_201304 03	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-9_201304 03	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-9_201304 03	Salinity	250 mL / HDPE / None
X	DR-9_201304 03	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-9_201304 03	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-9_201304 03	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

OF GW-1

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **DR-10**
Date of Sample Collection: 4-24-13
Time of Sample Collection: 15:45
Sampler's Identity: BL
***Duplicate sample of:** MW-103

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
6.58	1680	0.55	10.17	-38.0

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-10_201304	24	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-10_201304	24	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-10_201304	24	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-10_201304	24	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-10_201304	24	Salinity	250 mL / HDPE / None
X	DR-10_201304	24	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-10_201304	24	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-10_201304	24	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-11**
Date of Sample Collection: 4-25-13
Time of Sample Collection: 917
Sampler's Identity: BL
***Duplicate sample of:** DR-6

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
7.47	1492	2.26	9.81	-45.7

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-11_201304	25	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-11_201304	25	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-11_201304	25	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-11_201304	25	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-11_201304	25	Salinity	250 mL / HDPE / None
X	DR-11_201304	25	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-11_201304	25	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-11_201304	25	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:
*This sample is a Blind Duplicate Sample. Collect one blind duplicate sample for every 10 samples collected.

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☐ Groundwater ☒ Other

Sample Location: **FB**

Date of Sample Collection: 4-25-13

Time of Sample Collection: 11:15

Sampler's Identity: BL

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
8.20	3	4.10	9.88	-61.9

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	FB_201304	25	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	FB_201304	25	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	FB_201304	25	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	FB_201304	25	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	FB_201304	25	Salinity	250 mL / HDPE / None
X	FB_201304	25	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	FB_201304	25	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	FB_201304	25	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Sample is a Field Blank. Run distilled water through all standard sampling procedures

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-1 COMPOSITE**

Date of Sample Collection: 4·18·2013

Time of Sample Collection: 12:00

Sampler's Identity: TB TB T.T

Collected:
☒ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	4'	8	269	8.42	0.4	-66.6
2	4'	8.04	294	8.61	.08	-69.4
3	4	8.03	295	8.63	.11	-70.4
4	4	8.02	295	8.64	.11	-70.9
5	4	8.02	295	8.43	.11	-71.9
Total Composite	Total Width*:	8.02	291	7.39	-0.01	-64.8

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	DR-1 COMPOSITE_201304	18	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	DR-1 COMPOSITE_201304	18	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	DR-1 COMPOSITE_201304	18	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	DR-1 COMPOSITE_201304	18	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	DR-1 COMPOSITE_201304	18	Salinity	250 mL / HDPE / None
✓	DR-1 COMPOSITE_201304	18	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	DR-1 COMPOSITE_201304	18	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	DR-1 COMPOSITE_201304	18	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Rico Water Sampling Form: *Station Information*

☒ Surface Water ☐ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **DR-2 COMPOSITE**
Date of Sample Collection: 4.18.2013
Time of Sample Collection: 11 00
Sampler's Identity: GB GB TT

Collected:
☒ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	6'	7.88	343	8.66	-0.11	-75.8
2	6'	7.77	337	8.50	-0.14	-74.0
3	6'	7.73	334	8.55	-0.18	-72.7
4	6'	7.70	338	8.44	-0.16	-72.0
5	6'	7.58	406	8.00	0.11	-71.5
Total Composite	Total Width*:	7.75	312	7.59	-0.10	-68.8

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-2 COMPOSITE_201304	18	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-2 COMPOSITE_201304	18	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-2 COMPOSITE_201304	18	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-2 COMPOSITE_201304	18	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-2 COMPOSITE_201304	18	Salinity	250 mL / HDPE / None
X	DR-2 COMPOSITE_201304	18	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-2 COMPOSITE_201304	18	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-2 COMPOSITE_201304	18	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:
*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Ice on banks and exposed rocks, Frizzle ice in water

42°C 6.13 pH .37 DO

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-7 COMPOSITE**

Date of Sample Collection: 4-18-13

Time of Sample Collection: 10:00

Sampler's Identity: TB ES M

Collected:
☑ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	6'	7.39	485	8.15	0.28	-54.5
2	6'	7.35	463	8.13	0.14	-58.5
3	6'	7.43	431	8.11	0.02	-60.3
4	6'	7.50	404	8.08	-0.04	-60.9
5	6'	7.54	390	8.07	-0.04	-61.0
6	6'	7.49	387	8.11	-0.04	-60.1
7	6'	7.41	388	8.06	0.01	-58.9
Total Composite	Total Width*:	7.43	419	7.47	-0.23	-55.0

*Width here must match width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-7 COMPOSITE_201304	18	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-7 COMPOSITE_201304	18	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-7 COMPOSITE_201304	18	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-7 COMPOSITE_201304	18	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-7 COMPOSITE_201304	18	Salinity	250 mL / HDPE / None
X	DR-7 COMPOSITE_201304	18	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-7 COMPOSITE_201304	18	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-7 COMPOSITE_201304	18	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Icy along banks and exposed rocks

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☒ Surface Water ☐ Groundwater ☐ Other

Sample Location: **DR-4-SW COMPOSITE**

Date of Sample Collection: 4-16-2013

Time of Sample Collection: 16:44

Sampler's Identity: T.B

Collected:
☒ East to West
☐ West to East

FIELD PARAMETERS / MEASUREMENTS

Compartment Number	Compartment Width, ft	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	5	8.35	430	6.03	7.16	-58.6
2	5	8.13	428	5.96	7.80	-73.2
3	5	8.02	427	5.9	7.76	-78.4
4	5	7.72	425	5.98	7.41	-51.6
5	5	7.75	425	6.02	7.43	-48.5
6	5	7.77	427	5.97	7.45	-43.9
7	5	7.99	427	6.02	7.51	-37.4
Total Composite	Total Width*:	8.02	424	4.60	8.42	-60.5

*Total width here **must** match total width on corresponding flow measurement sheet from Stream Flow Measurements Form

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	DR-4-SW COMPOSITE_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	DR-4-SW COMPOSITE_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	DR-4-SW COMPOSITE_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	DR-4-SW COMPOSITE_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	DR-4-SW COMPOSITE_201304	16	Salinity	250 mL / HDPE / None
X	DR-4-SW COMPOSITE_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	DR-4-SW COMPOSITE_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	DR-4-SW COMPOSITE_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

*Collect composite sample, grab sample, and flow measurements at the same time (not on different days).

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **GW-1**

Date of Sample Collection: 4-3-13

Time of Sample Collection: 1135

Sampler's Identity: TT

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 1.46 ft

Depth to Well Bottom: 9.68 ft (NEW TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1126	1.5	8.02	135		6.1	
2	1129	3.0	7.68	313		5.1	
3	1131	4.5	7.59	320		4.0	
Total	1135		7.66	358	9.55	7.08	-62.1

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	GW-1_201304 03	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	GW-1_201304 03	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	GW-1_201304 03	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	GW-1_201304 03	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	GW-1_201304 03	Salinity	250 mL / HDPE / None
X	GW-1_201304 03	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	GW-1_201304 03	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	GW-1_201304 03	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
0.00	1.70	5.10
0.25	1.66	4.97
0.50	1.61	4.84
0.75	1.57	4.71
1.00	1.53	4.58
1.25	1.48	4.44
1.50	1.44	4.31
1.75	1.39	4.18
2.00	1.35	4.05
2.25	1.31	3.92
2.50	1.26	3.79
2.75	1.22	3.66
3.00	1.18	3.53
3.25	1.13	3.40
3.50	1.09	3.27
3.75	1.05	3.14
4.00	1.00	3.01
4.25	0.96	2.88
4.50	0.92	2.75
4.75	0.87	2.61
5.00	0.83	2.48
5.25	0.78	2.35
5.50	0.74	2.22
5.75	0.70	2.09
6.00	0.65	1.96
6.25	0.61	1.83
6.50	0.57	1.70
6.75	0.52	1.57
7.00	0.48	1.44
7.25	0.44	1.31
7.50	0.39	1.18
7.75	0.35	1.05
8.00	0.31	0.92
8.25	0.26	0.78
8.50	0.22	0.65
8.75	0.17	0.52
9.00	0.13	0.39
9.25	0.09	0.26
9.50	0.04	0.13

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location:	**GW-3**
Date of Sample Collection:	20130402 4-3-13
Time of Sample Collection:	1315 (PURGE) 1048
Sampler's Identity:	YODS

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	12.51	ft
Depth to Well Bottom:	15.29	ft (NEW TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1317	0.3	7.34	72.3		8.2	
2							
3							
Total	1048		7.45	826	5.22	7.74	-52.2

Well purged dry? ☒ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	GW-3_201304 03	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	GW-3_201304 03	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	GW-3_201304 03	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	GW-3_201304 03	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	GW-3_201304 03	Salinity	250 mL / HDPE / None
X	GW-3_201304 03	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	GW-3_201304 03	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	GW-3_201304 03	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

WELL DRY AFTER 1.5 QTS ✓

4-3-12 @ 1041 DEPTH TO WATER 12.55 FT. > 80%

4-3-12 @ 1305 Sample collected

4-3-12 @ 1530 SAMPLE COLLECTED

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
5.75	1.66	4.99
6.00	1.62	4.86
6.25	1.58	4.73
6.50	1.53	4.60
6.75	1.49	4.47
7.00	1.45	4.34
7.25	1.40	4.21
7.50	1.36	4.08
7.75	1.32	3.95
8.00	1.27	3.82
8.25	1.23	3.69
8.50	1.19	3.56
8.75	1.14	3.43
9.00	1.10	3.29
9.25	1.05	3.16
9.50	1.01	3.03
9.75	0.97	2.90
10.00	0.92	2.77
10.25	0.88	2.64
10.50	0.84	2.51
10.75	0.79	2.38
11.00	0.75	2.25
11.25	0.71	2.12
11.50	0.66	1.99
11.75	0.62	1.86
12.00	0.58	1.73
12.25	0.53	1.59
12.50	0.49	1.46
12.75	0.44	1.33
13.00	0.40	1.20
13.25	0.36	1.07
13.50	0.31	0.94
13.75	0.27	0.81
14.00	0.23	0.68
14.25	0.18	0.55
14.50	0.14	0.42
14.75	0.10	0.29
15.00	0.05	0.16
15.25	0.01	0.03

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location:	**GW-4**
Date of Sample Collection:	4-2-13
Time of Sample Collection:	1505
Sampler's Identity:	TJ

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	10.11	ft
Depth to Well Bottom:	19.90	ft (NEW TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	14:50	0.9	7.06	592		2.9	
2	14:57	1.8	7.11	278		1.7	
3	1502	2.7	7.10	283		2.3	
Total	1505		7.36	670	0.38	6.18	-109.5

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	GW-4_201304 02	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	GW-4_201304 02	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	GW-4_201304 02	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	GW-4_201304 02	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	GW-4_201304 02	Salinity	250 mL / HDPE / None
X	GW-4_201304 02	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	GW-4_201304 02	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	GW-4_201304 02	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
5.50	1.68	5.05
5.75	1.64	4.92
6.00	1.59	4.78
6.25	1.55	4.65
6.50	1.51	4.52
6.75	1.46	4.39
7.00	1.42	4.26
7.25	1.38	4.13
7.50	1.33	4.00
7.75	1.29	3.87
8.00	1.25	3.74
8.25	1.20	3.61
8.50	1.16	3.48
8.75	1.12	3.35
9.00	1.07	3.22
9.25	1.03	3.09
9.50	0.98	2.95
9.75	0.94	2.82
10.00	0.90	2.69
10.25	0.85	2.56
10.50	0.81	2.43
10.75	0.77	2.30
11.00	0.72	2.17
11.25	0.68	2.04
11.50	0.64	1.91
11.75	0.59	1.78
12.00	0.55	1.65
12.25	0.51	1.52
12.50	0.46	1.39
12.75	0.42	1.25
13.00	0.37	1.12
13.25	0.33	0.99
13.50	0.29	0.86
13.75	0.24	0.73
14.00	0.20	0.60
14.25	0.16	0.47
14.50	0.11	0.34
14.75	0.07	0.21
15.00	0.03	0.08

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location:	**GW-5**
Date of Sample Collection:	4-2-13
Time of Sample Collection:	1545
Sampler's Identity:	TT

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	21.60	ft
Depth to Well Bottom:	24.52	ft (NEW TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1530	0.52	6.8	636		3.5	
2	1535	1.04	6.9	672		6.3	
3	1540	1.60	6.9	601		5.3	
Total	1545		7.24	1489	0.23	8.15	-109.1

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	GW-5_201304 02	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	GW-5_201304 02	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	GW-5_201304 02	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	GW-5_201304 02	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	GW-5_201304 02	Salinity	250 mL / HDPE / None
X	GW-5_201304 02	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	GW-5_201304 02	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	GW-5_201304 02	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
15.00	1.66	4.97
15.25	1.61	4.84
15.50	1.57	4.71
15.75	1.53	4.58
16.00	1.48	4.44
16.25	1.44	4.31
16.50	1.39	4.18
16.75	1.35	4.05
17.00	1.31	3.92
17.25	1.26	3.79
17.50	1.22	3.66
17.75	1.18	3.53
18.00	1.13	3.40
18.25	1.09	3.27
18.50	1.05	3.14
18.75	1.00	3.01
19.00	0.96	2.88
19.25	0.92	2.75
19.50	0.87	2.61
19.75	0.83	2.48
20.00	0.78	2.35
20.25	0.74	2.22
20.50	0.70	2.09
20.75	0.65	1.96
21.00	0.61	1.83
21.25	0.57	1.70
21.50	0.52	1.57
21.75	0.48	1.44
22.00	0.44	1.31
22.25	0.39	1.18
22.50	0.35	1.05
22.75	0.31	0.92
23.00	0.26	0.78
23.25	0.22	0.65
23.50	0.17	0.52
23.75	0.13	0.39
24.00	0.09	0.26
24.25	0.04	0.13
24.50	0.00	0.00

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **GW-6**

Date of Sample Collection: 4/16/13

Time of Sample Collection: 11:35

Sampler's Identity: TS

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS old

Measured Depth to Water: 20.54 ft

Depth to Well Bottom: 26.68 ft

#2

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	11:18	1.25	6.31	1753		10.8	
2	11:25	2.50	6.63	1670		9.1	
3	11:30	3.50	6.80	1525		9.1	
Collected Sample Parameters:			7.44	19.26	0.81	11.76	-86.6

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	GW-6_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	GW-6_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	GW-6_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	GW-6_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	GW-6_201304	16	Salinity	250 mL / HDPE / None
✓	GW-6_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	GW-6_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	GW-6_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
17.25	1.68	5.03
17.50	1.63	4.89
17.75	1.59	4.76
18.00	1.54	4.63
18.25	1.50	4.50
18.50	1.46	4.37
18.75	1.41	4.24
19.00	1.37	4.11
19.25	1.33	3.98
19.50	1.28	3.85
19.75	1.24	3.72
20.00	1.20	3.59
20.25	1.15	3.46
20.50	1.11	3.33
20.75	1.07	3.20
21.00	1.02	3.06
21.25	0.98	2.93
21.50	0.93	2.80
21.75	0.89	2.67
22.00	0.85	2.54
22.25	0.80	2.41
22.50	0.76	2.28
22.75	0.72	2.15
23.00	0.67	2.02
23.25	0.63	1.89
23.50	0.59	1.76
23.75	0.54	1.63
24.00	0.50	1.50
24.25	0.45	1.36
24.50	0.41	1.23
24.75	0.37	1.10
25.00	0.32	0.97
25.25	0.28	0.84
25.50	0.24	0.71
25.75	0.19	0.58
26.00	0.15	0.45
26.25	0.11	0.32
26.50	0.06	0.19
26.75	0.02	0.06

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location:	**GW-7**
Date of Sample Collection:	4-2-13
Time of Sample Collection:	1350
Sampler's Identity:	BL BL

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	~~22.89~~ 22.89	ft
Depth to Well Bottom:	~~9.16~~ 25.16	ft (OLD TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1337	.45	6.53	974		10.8	
2	1340	.90	6.53	~~[illegible]~~ 1504		9.2	
3	1345	1.35 ~~[illegible]~~ BL	6.55	1149		7.8	
Total	1445		6.66	1822	2.16	9.76	-83.2

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	GW-7_201304 02	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	GW-7_201304 02	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	GW-7_201304 02	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	GW-7_201304 02	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	GW-7_201304 02	Salinity	250 mL / HDPE / None
X	GW-7_201304 02	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	GW-7_201304 02	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	GW-7_201304 02	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

1445 was the time on the bottles

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
15.25	1.76	5.28
15.50	1.72	5.15
15.75	1.67	5.01
16.00	1.63	4.88
16.25	1.58	4.75
16.50	1.54	4.62
16.75	1.50	4.49
17.00	1.45	4.36
17.25	1.41	4.23
17.50	1.37	4.10
17.75	1.32	3.97
18.00	1.28	3.84
18.25	1.24	3.71
18.50	1.19	3.58
18.75	1.15	3.45
19.00	1.11	3.32
19.25	1.06	3.18
19.50	1.02	3.05
19.75	0.97	2.92
20.00	0.93	2.79
20.25	0.89	2.66
20.50	0.84	2.53
20.75	0.80	2.40
21.00	0.76	2.27
21.25	0.71	2.14
21.50	0.67	2.01
21.75	0.63	1.88
22.00	0.58	1.75
22.25	0.54	1.62
22.50	0.50	1.49
22.75	0.45	1.35
23.00	0.41	1.22
23.25	0.36	1.09
23.50	0.32	0.96
23.75	0.28	0.83
24.00	0.23	0.70
24.25	0.19	0.57
24.50	0.15	0.44
24.75	0.10	0.31

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **EB-1**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 9:45

Sampler's Identity: TT TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 21.08 ft (21.05)

Depth to Well Bottom: 35.35 ft

New tape

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	11:15	2.5	7.11	1944		12.7	
2							
3							
Collected Sample Parameters:			7.95	1988	0.16	8.74	-133.6

Well purged dry? ☑ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☑ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	EB-1_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	EB-1_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	EB-1_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	EB-1_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	EB-1_201304	17	Salinity	250 mL / HDPE / None
✓	EB-1_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	EB-1_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	EB-1_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
19.00	2.85	8.55
19.25	2.81	8.42
19.50	2.76	8.29
19.75	2.72	8.16
20.00	2.68	8.03
20.25	2.63	7.90
20.50	2.59	7.77
20.75	2.54	7.63
21.00	2.50	7.50 ←
21.25	2.46	7.37
21.50	2.41	7.24
21.75	2.37	7.11
22.00	2.33	6.98
22.25	2.28	6.85
22.50	2.24	6.72
22.75	2.20	6.59
23.00	2.15	6.46
23.25	2.11	6.33
23.50	2.07	6.20
23.75	2.02	6.07
24.00	1.98	5.94
24.25	1.93	5.80
24.50	1.89	5.67
24.75	1.85	5.54
25.00	1.80	5.41
25.25	1.76	5.28
25.50	1.72	5.15
25.75	1.67	5.02
26.00	1.63	4.89
26.25	1.59	4.76
26.50	1.54	4.63
26.75	1.50	4.50
27.00	1.46	4.37
27.25	1.41	4.24
27.50	1.37	4.10
27.75	1.32	3.97
28.00	1.28	3.84
28.25	1.24	3.71
28.50	1.19	3.58

15.78
21.0

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **EB-2**
Date of Sample Collection: 4/16/13 Purge 4/17/13
Time of Sample Collection: 9:55
Sampler's Identity: TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 16.13 ft 16.15
Depth to Well Bottom: 26.45 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1		1.50	5.96	3.86		11.2	
2							
3							
Collected Sample Parameters:			7.67	3843	0	7.49	-138.0

Well purged dry? ☒ Yes ☐ No
If Yes, did well recover to 80% within 24 hours?** ☒ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
☐	EB-2_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	EB-2_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	EB-2_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	EB-2_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	EB-2_201304	17	Salinity	250 mL / HDPE / None
X	EB-2_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	EB-2_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	EB-2_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:
* If conditions significantly change, purge volume can be calculated as follows:
One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)
** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
14.00	2.18	6.54
14.25	2.14	6.41
14.50	2.09	6.27
14.75	2.05	6.14
15.00	2.00	6.01
15.25	1.96	5.88
15.50	1.92	5.75
15.75	1.87	5.62
16.00	1.83	5.49
16.25	1.79	5.36
16.50	1.74	5.23
16.75	1.70	5.10
17.00	1.66	4.97
17.25	1.61	4.84
17.50	1.57	4.71
17.75	1.53	4.58
18.00	1.48	4.44
18.25	1.44	4.31
18.50	1.39	4.18
18.75	1.35	4.05
19.00	1.31	3.92
19.25	1.26	3.79
19.50	1.22	3.66
19.75	1.18	3.53
20.00	1.13	3.40
20.25	1.09	3.27
20.50	1.05	3.14
20.75	1.00	3.01
21.00	0.96	2.88
21.25	0.92	2.75
21.50	0.87	2.61
21.75	0.83	2.48
22.00	0.78	2.35
22.25	0.74	2.22
22.50	0.70	2.09
22.75	0.65	1.96
23.00	0.61	1.83
23.25	0.57	1.70
23.50	0.52	1.57

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-1 DEEP**

Date of Sample Collection: 4/24/13

Time of Sample Collection: 14:35

Sampler's Identity: ~~TB~~ BL

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 8.89 ft (New)

Depth to Well Bottom: 25.18 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	13:50	2.85	7.47	1227		10.6	
2	14:10	5.70	7.44	1177		8.7	
3	14:25	8.55	7.42	1171		9.2	
Collected Sample Parameters:			7.41	1414	2.32	11.68	-30.6

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-1 DEEP_201304	24	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-1 DEEP_201304	24	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-1 DEEP_201304	24	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-1 DEEP_201304	24	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-1 DEEP_201304	24	Salinity	250 mL / HDPE / None
X	MW-1 DEEP_201304	24	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-1 DEEP_201304	24	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-1 DEEP_201304	24	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	3.32	9.97
6.25	3.28	9.84
6.50	3.24	9.71
6.75	3.19	9.58
7.00	3.15	9.45
7.25	3.11	9.32
7.50	3.06	9.19
7.75	3.02	9.06
8.00	2.98	8.93
8.25	2.93	8.80
8.50	2.89	8.66
8.75	2.84	8.53
9.00	2.80	8.40
9.25	2.76	8.27
9.50	2.71	8.14
9.75	2.67	8.01
10.00	2.63	7.88
10.25	2.58	7.75
10.50	2.54	7.62
10.75	2.50	7.49
11.00	2.45	7.36
11.25	2.41	7.23
11.50	2.37	7.10
11.75	2.32	6.97
12.00	2.28	6.83
12.25	2.23	6.70
12.50	2.19	6.57
12.75	2.15	6.44
13.00	2.10	6.31
13.25	2.06	6.18
13.50	2.02	6.05
13.75	1.97	5.92
14.00	1.93	5.79
14.25	1.89	5.66
14.50	1.84	5.53
14.75	1.80	5.40
15.00	1.76	5.27
15.25	1.71	5.14
15.50	1.67	5.00

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-1 SHALLOW** Ne

Date of Sample Collection: 4/17/13

Time of Sample Collection: 14:45

Sampler's Identity: TB TT

FIELD PARAMETERS / MEASUREMENTS New

Measured Depth to Water: 6.57 ft

Depth to Well Bottom: 10.38 ft

#2

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	14:40	.75	7.90	1155		3.1	
2	14:43	1.50	7.74	1134		2.9	
3	14:47	2.25	7.42	1121		2.3	
Collected Sample Parameters:			9.19	1374	2.80	3.83	-39.7

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-1 SHALLOW_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-1 SHALLOW_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-1 SHALLOW_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-1 SHALLOW_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-1 SHALLOW_201304	17	Salinity	250 mL / HDPE / None
✓	MW-1 SHALLOW_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-1 SHALLOW_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-1 SHALLOW_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
0.75	1.66	4.99
1.00	1.62	4.86
1.25	1.58	4.73
1.50	1.53	4.60
1.75	1.49	4.47
2.00	1.44	4.33
2.25	1.40	4.20
2.50	1.36	4.07
2.75	1.31	3.94
3.00	1.27	3.81
3.25	1.23	3.68
3.50	1.18	3.55
3.75	1.14	3.42
4.00	1.10	3.29
4.25	1.05	3.16
4.50	1.01	3.03
4.75	0.97	2.90
5.00	0.92	2.77
5.25	0.88	2.64
5.50	0.83	2.50
5.75	0.79	2.37
6.00	0.75	2.24
6.25	0.70	2.11
6.50	0.66	1.98
6.75	0.62	1.85
7.00	0.57	1.72
7.25	0.53	1.59
7.50	0.49	1.46
7.75	0.44	1.33
8.00	0.40	1.20
8.25	0.36	1.07
8.50	0.31	0.94
8.75	0.27	0.81
9.00	0.22	0.67
9.25	0.18	0.54
9.50	0.14	0.41
9.75	0.09	0.28
10.00	0.05	0.15
10.25	0.01	0.02

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-2 DEEP**
Date of Sample Collection: 4/17/13
Time of Sample Collection: 1:49
Sampler's Identity: TT TB

FIELD PARAMETERS / MEASUREMENTS New

Measured Depth to Water: 9.85 ft
Depth to Well Bottom: 23.04 ft

#1

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	13:32	2.5	7.22	1148		3.1	
2		5.	7.56	1174		2.3	
3		7.5	7.78	1148		3.7	
Collected Sample Parameters:			8.76	1406	1.66	6.04	-101.3

Well purged dry? ☐ Yes ☒ No
If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-2 DEEP_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-2 DEEP_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-2 DEEP_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-2 DEEP_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-2 DEEP_201304	17	Salinity	250 mL / HDPE / None
X	MW-2 DEEP_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-2 DEEP_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-2 DEEP_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	2.97	8.92
6.25	2.93	8.78
6.50	2.88	8.65
6.75	2.84	8.52
7.00	2.80	8.39
7.25	2.75	8.26
7.50	2.71	8.13
7.75	2.67	8.00
8.00	2.62	7.87
8.25	2.58	7.74
8.50	2.54	7.61
8.75	2.49	7.48
9.00	2.45	7.35
9.25	2.41	7.22
9.50	2.36	7.09
9.75	2.32	6.95
10.00	2.27	6.82
10.25	2.23	6.69
10.50	2.19	6.56
10.75	2.14	6.43
11.00	2.10	6.30
11.25	2.06	6.17
11.50	2.01	6.04
11.75	1.97	5.91
12.00	1.93	5.78
12.25	1.88	5.65
12.50	1.84	5.52
12.75	1.80	5.39
13.00	1.75	5.26
13.25	1.71	5.12
13.50	1.66	4.99
13.75	1.62	4.86
14.00	1.58	4.73
14.25	1.53	4.60
14.50	1.49	4.47
14.75	1.45	4.34
15.00	1.40	4.21
15.25	1.36	4.08
15.50	1.32	3.95

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-2 SHALLOW**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 1:27

Sampler's Identity: TB

Dry Well

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes*	
	1	3

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.99 ft

Depth to Well Bottom: 10.33 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1							
2							
3							
Collected Sample Parameters:							

Well purged dry? ☐ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-2 SHALLOW_201304		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-2 SHALLOW_201304		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-2 SHALLOW_201304		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-2 SHALLOW_201304		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-2 SHALLOW_201304		Salinity	250 mL / HDPE / None
	MW-2 SHALLOW_201304		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-2 SHALLOW_201304		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-2 SHALLOW_201304		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-3 DEEP**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 1009

Sampler's Identity: TT TB TB

FIELD PARAMETERS / MEASUREMENTS TB

Measured Depth to Water: ~~9.58~~ 9.56 ft

Depth to Well Bottom: ~~9.33~~ 23.4 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1		2.50	7.64	1251		5.6	
2	103	5.0	7.53	1170		7.2	
3	106	7.5	7.38	1246		7.0	
Collected Sample Parameters:			9.14	1472	0	7.2	-123.0

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-3 DEEP_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-3 DEEP_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-3 DEEP_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-3 DEEP_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-3 DEEP_201304	17	Salinity	250 mL / HDPE / None
✓	MW-3 DEEP_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-3 DEEP_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-3 DEEP_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	3.01	9.04
6.25	2.97	8.91
6.50	2.93	8.78
6.75	2.88	8.65
7.00	2.84	8.52
7.25	2.80	8.39
7.50	2.75	8.26
7.75	2.71	8.13
8.00	2.67	8.00
8.25	2.62	7.86
8.50	2.58	7.73
8.75	2.53	7.60
9.00	2.49	7.47
9.25	2.45	7.34
9.50	2.40	7.21
9.75	2.36	7.08
10.00	2.32	6.95
10.25	2.27	6.82
10.50	2.23	6.69
10.75	2.19	6.56
11.00	2.14	6.43
11.25	2.10	6.30
11.50	2.06	6.17
11.75	2.01	6.03
12.00	1.97	5.90
12.25	1.92	5.77
12.50	1.88	5.64
12.75	1.84	5.51
13.00	1.79	5.38
13.25	1.75	5.25
13.50	1.71	5.12
13.75	1.66	4.99
14.00	1.62	4.86
14.25	1.58	4.73
14.50	1.53	4.60
14.75	1.49	4.47
15.00	1.44	4.33
15.25	1.40	4.20
15.50	1.36	4.07

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☐
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

ple Location: **MW-3 SHALLOW**

Date of Sample Collection: 9/17/13

Time of Sample Collection: 12:45

Sampler's Identity: TB

DRY well

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes*	
	1	3

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 9.17 ft

Depth to Well Bottom: 9.33 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1							
2							
3							
Collected Sample Parameters:							

Well purged dry? ☐ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-3 SHALLOW_201304		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-3 SHALLOW_201304		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-3 SHALLOW_201304		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-3 SHALLOW_201304		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-3 SHALLOW_201304		Salinity	250 mL / HDPE / None
	MW-3 SHALLOW_201304		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-3 SHALLOW_201304		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-3 SHALLOW_201304		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-4 DEEP**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 1428

Sampler's Identity: TT

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS Neo

Measured Depth to Water: 16.33 ft

Depth to Well Bottom: 31.20 ft

#1

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	211	2.6	7.49	1607	2.71	9.01	-34.8
2	217	5.0	6.76	1601	3.19	9.54	-19.8
3	223		6.55	1631	2.59	9.04	-13.9
Collected Sample Parameters:			6.48	1620	1.88	8.77	-18.9

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-4 DEEP_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-4 DEEP_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-4 DEEP_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-4 DEEP_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-4 DEEP_201304	17	Salinity	250 mL / HDPE / None
✓	MW-4 DEEP_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-4 DEEP_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-4 DEEP_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
13.00	3.18	9.54
13.25	3.14	9.41
13.50	3.09	9.28
13.75	3.05	9.15
14.00	3.01	9.02
14.25	2.96	8.88
14.50	2.92	8.75
14.75	2.87	8.62
15.00	2.83	8.49
15.25	2.79	8.36
15.50	2.74	8.23
15.75	2.70	8.10
16.00	2.66	7.97
16.25	2.61	7.84
16.50	2.57	7.71
16.75	2.53	7.58
17.00	2.48	7.45
17.25	2.44	7.32
17.50	2.39	7.18
17.75	2.35	7.05
18.00	2.31	6.92
18.25	2.26	6.79
18.50	2.22	6.66
18.75	2.18	6.53
19.00	2.13	6.40
19.25	2.09	6.27
19.50	2.05	6.14
19.75	2.00	6.01
20.00	1.96	5.88
20.25	1.92	5.75
20.50	1.87	5.62
20.75	1.83	5.49
21.00	1.78	5.35
21.25	1.74	5.22
21.50	1.70	5.09
21.75	1.65	4.96
22.00	1.61	4.83
22.25	1.57	4.70
22.50	1.52	4.57

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-4 SHALLOW**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 208

Sampler's Identity: TB

FIELD PARAMETERS / MEASUREMENTS New

Measured Depth to Water: 16.39 ft

Depth to Well Bottom: 18.35 ft

#1

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	~~200~~ 33	.33	6.97	488		5.1	
2	204	.66	6.75	747		8.0	
3	206	.99	6.71	896		8.3	
Collected Sample Parameters:			8.28	1242	2.12	7.55	-70.0

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	MW-4 SHALLOW_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-4 SHALLOW_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-4 SHALLOW_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-4 SHALLOW_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-4 SHALLOW_201304	17	Salinity	250 mL / HDPE / None
✓	MW-4 SHALLOW_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-4 SHALLOW_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-4 SHALLOW_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
8.75	1.68	5.04
9.00	1.64	4.91
9.25	1.59	4.78
9.50	1.55	4.65
9.75	1.51	4.52
10.00	1.46	4.39
10.25	1.42	4.26
10.50	1.38	4.13
10.75	1.33	4.00
11.00	1.29	3.86
11.25	1.24	3.73
11.50	1.20	3.60
11.75	1.16	3.47
12.00	1.11	3.34
12.25	1.07	3.21
12.50	1.03	3.08
12.75	0.98	2.95
13.00	0.94	2.82
13.25	0.90	2.69
13.50	0.85	2.56
13.75	0.81	2.43
14.00	0.77	2.30
14.25	0.72	2.16
14.50	0.68	2.03
14.75	0.63	1.90
15.00	0.59	1.77
15.25	0.55	1.64
15.50	0.50	1.51
15.75	0.46	1.38
16.00	0.42	1.25
16.25	0.37	1.12
16.50	0.33	0.99
16.75	0.29	0.86
17.00	0.24	0.73
17.25	0.20	0.60
17.50	0.16	0.47
17.75	0.11	0.33
18.00	0.07	0.20
18.25	0.02	0.07

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-5 DEEP**

Date of Sample Collection: 4/16/13

Time of Sample Collection: 1250

Sampler's Identity: TT

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 16.8 ft

Depth to Well Bottom: 34.1 ft

New tape

#1

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
3	1248	3.0	~~7.46~~ 6.46	1530		11.6	
1	1228	6.0	6.7	1790		8.3	
2	1238	9.0	6.9	1589		11.0	
Collected Sample Parameters:			7.77	1902	1.25	11.61	-81.7

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-5 DEEP_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-5 DEEP_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-5 DEEP_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-5 DEEP_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-5 DEEP_201304	16	Salinity	250 mL / HDPE / None
✓	MW-5 DEEP_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-5 DEEP_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-5 DEEP_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
14.00	3.52	10.56
14.25	3.48	10.43
14.50	3.43	10.30
14.75	3.39	10.17
15.00	3.35	10.04
15.25	3.30	9.91
15.50	3.26	9.78
15.75	3.22	9.65
16.00	3.17	9.52
16.25	3.13	9.39
16.50	3.09	9.26
16.75	3.04	9.12
17.00	3.00	8.99
17.25	2.95	8.86
17.50	2.91	8.73
17.75	2.87	8.60
18.00	2.82	8.47
18.25	2.78	8.34
18.50	2.74	8.21
18.75	2.69	8.08
19.00	2.65	7.95
19.25	2.61	7.82
19.50	2.56	7.69
19.75	2.52	7.56
20.00	2.48	7.43
20.25	2.43	7.29
20.50	2.39	7.16
20.75	2.34	7.03
21.00	2.30	6.90
21.25	2.26	6.77
21.50	2.21	6.64
21.75	2.17	6.51
22.00	2.13	6.38
22.25	2.08	6.25
22.50	2.04	6.12
22.75	2.00	5.99
23.00	1.95	5.86
23.25	1.91	5.73
23.50	1.87	5.60

6.85 pH 1530 11.6°C

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-5 SHALLOW**

Date of Sample Collection: 4/16/13

Time of Sample Collection: 1250

Sampler's Identity: TB TT

FIELD PARAMETERS / MEASUREMENTS New

Measured Depth to Water: 15.78 ft

Depth to Well Bottom: 21.1 ft

#1

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm (mS)	DO, ppm	Temp, °C	ORP, mV
1	1200p	1	4.76	3.46		10.9	
2	1240	2	5.00	3.76		8.79	
3	1250	3	4.80	3.57		7.9	
Collected Sample Parameters:			5.56	3.53	0	9.37	-95.6

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-5 SHALLOW_201304	16	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-5 SHALLOW_201304	16	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-5 SHALLOW_201304	16	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-5 SHALLOW_201304	16	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-5 SHALLOW_201304	16	Salinity	250 mL / HDPE / None
✓	MW-5 SHALLOW_201304	16	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-5 SHALLOW_201304	16	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-5 SHALLOW_201304	16	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
11.50	1.66	4.98
11.75	1.62	4.85
12.00	1.57	4.72
12.25	1.53	4.59
12.50	1.49	4.46
12.75	1.44	4.32
13.00	1.40	4.19
13.25	1.35	4.06
13.50	1.31	3.93
13.75	1.27	3.80
14.00	1.22	3.67
14.25	1.18	3.54
14.50	1.14	3.41
14.75	1.09	3.28
15.00	1.05	3.15
15.25	1.01	3.02
15.50	0.96	2.89
15.75	0.92	2.76 ←
16.00	0.88	2.63
16.25	0.83	2.49
16.50	0.79	2.36
16.75	0.74	2.23
17.00	0.70	2.10
17.25	0.66	1.97
17.50	0.61	1.84
17.75	0.57	1.71
18.00	0.53	1.58
18.25	0.48	1.45
18.50	0.44	1.32
18.75	0.40	1.19
19.00	0.35	1.06
19.25	0.31	0.93
19.50	0.26	0.79
19.75	0.22	0.66
20.00	0.18	0.53
20.25	0.13	0.40
20.50	0.09	0.27
20.75	0.05	0.14
21.00	0.00	0.01

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-6 DEEP**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 10 45

Sampler's Identity: TB TT

FIELD PARAMETERS / MEASUREMENTS Old tape

Measured Depth to Water: 22.30 ft

Depth to Well Bottom: 40.20 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	10:26	3	6.67	1861	0.80	9.43	-123.9
2	10:32	6	6.41	1857	1.42	8.71	-100.7
3	10 38		6.25	1842	1.11	9.33	-92.9
Collected Sample Parameters: 1045			6.25	1835	1.21	9.39	-94.3

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
☐	MW-6 DEEP_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	MW-6 DEEP_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	MW-6 DEEP_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	MW-6 DEEP_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	MW-6 DEEP_201304	17	Salinity	250 mL / HDPE / None
✓	MW-6 DEEP_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	MW-6 DEEP_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	MW-6 DEEP_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
19.00	3.71	11.14
19.25	3.67	11.01
19.50	3.63	10.88
19.75	3.58	10.75
20.00	3.54	10.62
20.25	3.49	10.48
20.50	3.45	10.35
20.75	3.41	10.22
21.00	3.36	10.09
21.25	3.32	9.96
21.50	3.28	9.83
21.75	3.23	9.70
22.00	3.19	9.57
22.25	3.15	9.44
22.50	3.10	9.31
22.75	3.06	9.18
23.00	3.02	9.05
23.25	2.97	8.92
23.50	2.93	8.78
23.75	2.88	8.65
24.00	2.84	8.52
24.25	2.80	8.39
24.50	2.75	8.26
24.75	2.71	8.13
25.00	2.67	8.00
25.25	2.62	7.87
25.50	2.58	7.74
25.75	2.54	7.61
26.00	2.49	7.48
26.25	2.45	7.35
26.50	2.41	7.22
26.75	2.36	7.09
27.00	2.32	6.95
27.25	2.27	6.82
27.50	2.23	6.69
27.75	2.19	6.56
28.00	2.14	6.43
28.25	2.10	6.30
28.50	2.06	6.17

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-6 SHALLOW**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 1031

Sampler's Identity: TB TI TB

FIELD PARAMETERS / MEASUREMENTS old

Measured Depth to Water: 22.34 ft

Depth to Well Bottom: 27.14 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	10:15	1	8.92	2414	0.00	7.96	-140.9
2	10:21	2	7.61	2263	0	8.97	-131.8
3	10:26	3	7.10	2341	0	9.47	-127.8
Collected Sample Parameters:			6.83	2377	.58	8.49	-112.7

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-6 SHALLOW_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
/	MW-6 SHALLOW_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
/	MW-6 SHALLOW_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
/	MW-6 SHALLOW_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
/	MW-6 SHALLOW_201304	17	Salinity	250 mL / HDPE / None
/	MW-6 SHALLOW_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
/	MW-6 SHALLOW_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
/	MW-6 SHALLOW_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
17.50	1.70	5.09
17.75	1.65	4.96
18.00	1.61	4.83
18.25	1.57	4.70
18.50	1.52	4.57
18.75	1.48	4.44
19.00	1.44	4.31
19.25	1.39	4.18
19.50	1.35	4.05
19.75	1.31	3.92
20.00	1.26	3.79
20.25	1.22	3.66
20.50	1.17	3.52
20.75	1.13	3.39
21.00	1.09	3.26
21.25	1.04	3.13
21.50	1.00	3.00
21.75	0.96	2.87
22.00	0.91	2.74
22.25	0.87	2.61
22.50	0.83	2.48
22.75	0.78	2.35
23.00	0.74	2.22
23.25	0.70	2.09
23.50	0.65	1.96
23.75	0.61	1.82
24.00	0.56	1.69
24.25	0.52	1.56
24.50	0.48	1.43
24.75	0.43	1.30
25.00	0.39	1.17
25.25	0.35	1.04
25.50	0.30	0.91
25.75	0.26	0.78
26.00	0.22	0.65
26.25	0.17	0.52
26.50	0.13	0.39
26.75	0.09	0.26
27.00	0.04	0.13

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location:	**MW-101**
Date of Sample Collection:	4-2-13
Time of Sample Collection:	1425
Sampler's Identity:	BL

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	23.60	ft
Depth to Well Bottom:	37.4	ft (OLD TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	~~1402~~	1.90	~~6.11~~ ~~6.64~~	~~1825~~		~~5.95~~	7.3
2	1413	~~3.80~~ 3.80	6.30	1818		9.8	
3	1421	5.70	6.44	1821		9.2	
Total	1425		6.44	~~1821~~ 1864	0.43	10.41	-93.5

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
☒	MW-101_201304 02	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
☒	MW-101_201304 02	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
☒	MW-101_201304 02	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
☒	MW-101_201304 02	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
☒	MW-101_201304 02	Salinity	250 mL / HDPE / None
☒	MW-101_201304 02	Cyanide	250 mL / HDPE / NaOH (GREEN)
☒	MW-101_201304 02	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
☒	MW-101_201304 02	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
23.00	2.55	7.64
23.25	2.50	7.51
23.50	2.46	7.38
23.75	2.42	7.25
24.00	2.37	7.12
24.25	2.33	6.98
24.50	2.28	6.85
24.75	2.24	6.72
25.00	2.20	6.59
25.25	2.15	6.46
25.50	2.11	6.33
25.75	2.07	6.20
26.00	2.02	6.07
26.25	1.98	5.94
26.50	1.94	5.81
26.75	1.89	5.68
27.00	1.85	5.55
27.25	1.81	5.42
27.50	1.76	5.29
27.75	1.72	5.15
28.00	1.67	5.02
28.25	1.63	4.89
28.50	1.59	4.76
28.75	1.54	4.63
29.00	1.50	4.50
29.25	1.46	4.37
29.50	1.41	4.24
29.75	1.37	4.11
30.00	1.33	3.98
30.25	1.28	3.85
30.50	1.24	3.72
30.75	1.20	3.59
31.00	1.15	3.45
31.25	1.11	3.32
31.50	1.06	3.19
31.75	1.02	3.06
32.00	0.98	2.93
32.25	0.93	2.80
32.50	0.89	2.67

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location:	**MW-102**
Date of Sample Collection:	4-2-13
Time of Sample Collection:	1420
Sampler's Identity:	TT

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	23.57	ft
Depth to Well Bottom:	31.49	ft (NEW TAPE)

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	13:50	1.4	6.78	740		8.1	
2	14:05	2.8	6.90	565		6.0	
3	14:15	4.2	6.83	508		6.0	
Total	1420		6.88	1239	0.70	9.65	-90.1

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	MW-102_201304 02	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-102_201304 02	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-102_201304 02	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-102_201304 02	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-102_201304 02	Salinity	250 mL / HDPE / None
X	MW-102_201304 02	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-102_201304 02	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-102_201304 02	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
21.50	1.66	4.99
21.75	1.62	4.86
22.00	1.58	4.73
22.25	1.53	4.60
22.50	1.49	4.47
22.75	1.45	4.34
23.00	1.40	4.21
23.25	1.36	4.08
23.50	1.31	3.94
23.75	1.27	3.81
24.00	1.23	3.68
24.25	1.18	3.55
24.50	1.14	3.42
24.75	1.10	3.29
25.00	1.05	3.16
25.25	1.01	3.03
25.50	0.97	2.90
25.75	0.92	2.77
26.00	0.88	2.64
26.25	0.84	2.51
26.50	0.79	2.38
26.75	0.75	2.25
27.00	0.70	2.11
27.25	0.66	1.98
27.50	0.62	1.85
27.75	0.57	1.72
28.00	0.53	1.59
28.25	0.49	1.46
28.50	0.44	1.33
28.75	0.40	1.20
29.00	0.36	1.07
29.25	0.31	0.94
29.50	0.27	0.81
29.75	0.23	0.68
30.00	0.18	0.55
30.25	0.14	0.42
30.50	0.09	0.28
30.75	0.05	0.15
31.00	0.01	0.02

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-103**
Date of Sample Collection: 4-24-13
Time of Sample Collection: 15:40
Sampler's Identity: BL

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 6.56 ft NEW TAPE
Depth to Well Bottom: 19.83 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1509	2.33	6.60	1461		9.7	
2	1525	4.66	6.35	1395		8.2	
3	1532	7.00	6.55	1392		10.2	
Collected Sample Parameters:			6.60	1656	0.79	9.30	31.3

Well purged dry? ☐ Yes ☒ No
If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-103_201304	24	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-103_201304	24	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-103_201304	24	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-103_201304	24	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-103_201304	24	Salinity	250 mL / HDPE / None
X	MW-103_201304	24	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-103_201304	24	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-103_201304	24	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
3.00	2.94	8.82
3.25	2.90	8.69
3.50	2.85	8.55
3.75	2.81	8.42
4.00	2.76	8.29
4.25	2.72	8.16
4.50	2.68	8.03
4.75	2.63	7.90
5.00	2.59	7.77
5.25	2.55	7.64
5.50	2.50	7.51
5.75	2.46	7.38
6.00	2.42	7.25
6.25	2.37	7.12
6.50	2.33	6.99
6.75	2.28	6.85
7.00	2.24	6.72
7.25	2.20	6.59
7.50	2.15	6.46
7.75	2.11	6.33
8.00	2.07	6.20
8.25	2.02	6.07
8.50	1.98	5.94
8.75	1.94	5.81
9.00	1.89	5.68
9.25	1.85	5.55
9.50	1.81	5.42
9.75	1.76	5.29
10.00	1.72	5.16
10.25	1.67	5.02
10.50	1.63	4.89
10.75	1.59	4.76
11.00	1.54	4.63
11.25	1.50	4.50
11.50	1.46	4.37
11.75	1.41	4.24
12.00	1.37	4.11
12.25	1.33	3.98
12.50	1.28	3.85

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **MW-104**

Date of Sample Collection: 4-24-13

Time of Sample Collection: 16:13

Sampler's Identity: BL

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 3.83 ft NEW

Depth to Well Bottom: 17.88 ft TAPE

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	15:57	2.50	7.11	1222		9.6	
2	16:02	5.00	7.24	1265		8.8	
3	16:09	7.50	7.23	1257		8.5	
Collected Sample Parameters:			7.52	1479	2.11	9.56	-39.1

Well purged dry? ☐ Yes ☒ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
X	MW-104_201304	24	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	MW-104_201304	24	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	MW-104_201304	24	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	MW-104_201304	24	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	MW-104_201304	24	Salinity	250 mL / HDPE / None
X	MW-104_201304	24	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	MW-104_201304	24	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	MW-104_201304	24	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
0.00	3.11	9.34
0.25	3.07	9.21
0.50	3.03	9.08
0.75	2.98	8.95
1.00	2.94	8.82
1.25	2.89	8.68
1.50	2.85	8.55
1.75	2.81	8.42
2.00	2.76	8.29
2.25	2.72	8.16
2.50	2.68	8.03
2.75	2.63	7.90
3.00	2.59	7.77
3.25	2.55	7.64
3.50	2.50	7.51
3.75	2.46	7.38
4.00	2.42	7.25
4.25	2.37	7.12
4.50	2.33	6.99
4.75	2.28	6.85
5.00	2.24	6.72
5.25	2.20	6.59
5.50	2.15	6.46
5.75	2.11	6.33
6.00	2.07	6.20
6.25	2.02	6.07
6.50	1.98	5.94
6.75	1.94	5.81
7.00	1.89	5.68
7.25	1.85	5.55
7.50	1.81	5.42
7.75	1.76	5.29
8.00	1.72	5.15
8.25	1.67	5.02
8.50	1.63	4.89
8.75	1.59	4.76
9.00	1.54	4.63
9.25	1.50	4.50
9.50	1.46	4.37

Rico Water Sampling Form: *Station Information*

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **MW-202**

Date of Sample Collection: 4-24-13 / 4-25-13

Time of Sample Collection: 12:15 (4/24/13) 12:15 (4/25/13)

Sampler's Identity: BL

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes*	
	1	3

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 33.60 ft NEW TAPE

Depth to Well Bottom: 35.15 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	12:15	0.25					
2							
3							
Collected Sample Parameters:							

Well purged dry? ☒ Yes ☐ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☒ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	MW-202_201304		Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
	MW-202_201304		Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
	MW-202_201304		Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
	MW-202_201304		Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
	MW-202_201304		Salinity	250 mL / HDPE / None
	MW-202_201304		Cyanide	250 mL / HDPE / NaOH (GREEN)
	MW-202_201304		Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
	MW-202_201304		Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

35.15 - 33.60 = 1.55

0.174305 x (1.55) = 0.27

PURGED DRY @ 0.25 gallons

-34.79 - @ 12:15 (4/25/13) < 80% RECHARGE

Ø.36" H_2O

Rico Water Sampling Form: *Station Information*

Sampling completed at this location [X]
(Do not check box until **ALL** items have been completed)

[ ] Surface Water [X] Groundwater [ ] Other

Sample Location: **MW-204**

Date of Sample Collection: (20130402) SAMPLED 4-3-13

Time of Sample Collection: (1230 PURGE 1050)

Sampler's Identity: TT

NEW wheel USED

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 15.33 ft

Depth to Well Bottom: 28.85 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1238	2.4	6.52	647		15 10.3	
2	1253	4.8	6.99	724		10.3	
3							
Total	4-3-13 1121		6.75	1385	1.82	12.16	-53.4

Well purged dry? [X] Yes [ ] No

If Yes, did well recover to 80% within 24 hours?** [X] Yes [ ] No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
[X]	MW-204_201304 03	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
[X]	MW-204_201304 03	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
[X]	MW-204_201304 03	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
[X]	MW-204_201304 03	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
[X]	MW-204_201304 03	Salinity	250 mL / HDPE / None
[X]	MW-204_201304 03	Cyanide	250 mL / HDPE / NaOH (GREEN)
[X]	MW-204_201304 03	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
[X]	MW-204_201304 03	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

6.52 pH
647 Conn
- NEW wheel USED
- well Dry after 2 volumes

4-3-13 @ 1050 15.33 DEPTH TO WATER

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
11.00	3.09	9.26
11.25	3.04	9.13
11.50	3.00	9.00
11.75	2.96	8.87
12.00	2.91	8.73
12.25	2.87	8.60
12.50	2.82	8.47
12.75	2.78	8.34
13.00	2.74	8.21
13.25	2.69	8.08
13.50	2.65	7.95
13.75	2.61	7.82
14.00	2.56	7.69
14.25	2.52	7.56
14.50	2.48	7.43
14.75	2.43	7.30
15.00	2.39	7.17
15.25	2.35	7.04
15.50	2.30	6.90
15.75	2.26	6.77
16.00	2.21	6.64
16.25	2.17	6.51
16.50	2.13	6.38
16.75	2.08	6.25
17.00	2.04	6.12
17.25	2.00	5.99
17.50	1.95	5.86
17.75	1.91	5.73
18.00	1.87	5.60
18.25	1.82	5.47
18.50	1.78	5.34
18.75	1.74	5.21
19.00	1.69	5.07
19.25	1.65	4.94
19.50	1.60	4.81
19.75	1.56	4.68
20.00	1.52	4.55
20.25	1.47	4.42
20.50	1.43	4.29

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

Sample Location:	**P13-102**
Date of Sample Collection:	4/17/13
Time of Sample Collection:	11:05
Sampler's Identity:	TB

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water:	10.12	ft
Depth to Well Bottom:	35.27	ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	1043	4.5	7.05	1674		4.6	
2	1054	9.0	7.09	1580		5.0	
3	1103	13.5	7.01	1580		5.9	
Collected Sample Parameters:			8.64	1968	0.00	6.47	-137.2

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☐ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
✓	P13-102_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	P13-102_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	P13-102_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	P13-102_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	P13-102_201304	17	Salinity	250 mL / HDPE / None
✓	P13-102_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	P13-102_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	P13-102_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	5.13	15.38
6.25	5.08	15.25
6.50	5.04	15.12
6.75	5.00	14.99
7.00	4.95	14.86
7.25	4.91	14.73
7.50	4.87	14.60
7.75	4.82	14.47
8.00	4.78	14.33
8.25	4.73	14.20
8.50	4.69	14.07
8.75	4.65	13.94
9.00	4.60	13.81
9.25	4.56	13.68
9.50	4.52	13.55
9.75	4.47	13.42
10.00	4.43	13.29
10.25	4.39	13.16
10.50	4.34	13.03
10.75	4.30	12.90
11.00	4.26	12.77
11.25	4.21	12.64
11.50	4.17	12.50
11.75	4.12	12.37
12.00	4.08	12.24
12.25	4.04	12.11
12.50	3.99	11.98
12.75	3.95	11.85
13.00	3.91	11.72
13.25	3.86	11.59
13.50	3.82	11.46
13.75	3.78	11.33
14.00	3.73	11.20
14.25	3.69	11.07
14.50	3.65	10.94
14.75	3.60	10.80
15.00	3.56	10.67
15.25	3.51	10.54
15.50	3.47	10.41

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☒ Groundwater ☐ Other

Sample Location: **P13-103**

Date of Sample Collection: 4/17/13

Time of Sample Collection: 301

Sampler's Identity: TD

Sampling completed at this location ☑
(Do not check box until **ALL** items have been completed)

FIELD PARAMETERS / MEASUREMENTS

Measured Depth to Water: 10.11 ft

Depth to Well Bottom: 20.19 ft

# of Purge Volumes	Time	Cummulative Volume (gal)	pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV
1	249	2.00	7.02	1279		5.7	
2	252	4	6.97	1303		5.3	
3	256	6	7.02	1349		5.3	
Collected Sample Parameters:			7.02	1694	0	4.77	-76.6

Well purged dry? ☐ Yes ☑ No

If Yes, did well recover to 80% within 24 hours?** ☑ Yes ☐ No

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

X	Field Sample ID on Bottle		Analysis	Bottle size/Type/Preservative
	P13-103_201304	17	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
✓	P13-103_201304	17	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
✓	P13-103_201304	17	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
✓	P13-103_201304	17	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
✓	P13-103_201304	17	Salinity	250 mL / HDPE / None
✓	P13-103_201304	17	Cyanide	250 mL / HDPE / NaOH (GREEN)
✓	P13-103_201304	17	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
✓	P13-103_201304	17	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

* If conditions significantly change, purge volume can be calculated as follows:

One purge volume = 0.174305 x (Measured Depth to Water - Depth to Well Bottom)

** If "No", well is declared dry for the sampling event.

Measured Depth to Water (ft)	Quantity (gal) to Purge X Volumes* 1	3
6.00	2.50	7.50
6.25	2.45	7.36
6.50	2.41	7.23
6.75	2.37	7.10
7.00	2.32	6.97
7.25	2.28	6.84
7.50	2.24	6.71
7.75	2.19	6.58
8.00	2.15	6.45
8.25	2.11	6.32
8.50	2.06	6.19
8.75	2.02	6.06
9.00	1.98	5.93
9.25	1.93	5.80
9.50	1.89	5.67
9.75	1.84	5.53
10.00	1.80	5.40
10.25	1.76	5.27
10.50	1.71	5.14
10.75	1.67	5.01
11.00	1.63	4.88
11.25	1.58	4.75
11.50	1.54	4.62
11.75	1.50	4.49
12.00	1.45	4.36
12.25	1.41	4.23
12.50	1.37	4.10
12.75	1.32	3.97
13.00	1.28	3.84
13.25	1.23	3.70
13.50	1.19	3.57
13.75	1.15	3.44
14.00	1.10	3.31
14.25	1.06	3.18
14.50	1.02	3.05
14.75	0.97	2.92
15.00	0.93	2.79
15.25	0.89	2.66
15.50	0.84	2.53

Rico Water Sampling Form: *Station Information*

☐ Surface Water ☐ Groundwater ☒ Other

Sampling completed at this location ☒
(Do not check box until **ALL** items have been completed)

Sample Location: **AT-2**

Date of Sample Collection: 3APR13

Time of Sample Collection: 1200

Sampler's Identity: TH

FIELD PARAMETERS / MEASUREMENTS

pH	EC, µS/cm	DO, ppm	Temp, °C	ORP, mV	Depth along angle from casing invert (ft)
7.50	1088	1.58	13.66	-95.2	11.85

Data downloaded from transducer? ☑ Yes ☒ No

Has transducer been cleaned and recalibrated? ☑ Yes ☐ No (required monthly)

SAMPLE BOTTLE INFORMATION - Check off each bottle when completed

	Field Sample ID on Bottle	Analysis	Bottle size/Type/Preservative
X	AT-2_201304 03	Total Metals, Hardness, Silica	250 mL / HDPE / HNO3 (RED)
X	AT-2_201304 03	Dissolved Metals (Field Filtered)	250 mL / HDPE / HNO3 (RED)
X	AT-2_201304 03	Potentially Dissolved Metals	250 mL / HDPE / HNO3 (RED)
X	AT-2_201304 03	Alkalinity, TSS, TDS, Chloride, Sulfate	500 mL / HDPE / None
X	AT-2_201304 03	Salinity	250 mL / HDPE / None
X	AT-2_201304 03	Cyanide	250 mL / HDPE / NaOH (GREEN)
X	AT-2_201304 03	Sulfide	250 mL / HDPE / NaOH + Zn Acetate (BLACK)
X	AT-2_201304 03	Total Organic Carbon, Nitrate	250 mL / Amber Glass / H2SO4 (YELLOW)

Notes:

11.85 to H2O

Rico Water Sampling Form: *Stream Flow Measurements*

Location:	DR-1	Location:	DR-2	Location:	DR-7
Benchmark Elevation:	16.87	Benchmark Elevation:	4.70	Benchmark Elevation:	7.34
River Water Elevation:	8.78	River Water Elevation:	10.75	River Water Elevation:	7.48
[X] East to West		[X] East to West		[X] East to West	
[ ] West to East		[ ] West to East		[ ] West to East	

DR-1 Velocity (ft/sec)	DR-1 Depth (ft)	DR-2 Velocity (ft/sec)	DR-2 Depth (ft)	DR-7 Velocity (ft/sec)	DR-7 Depth (ft)	DR-7 Velocity (ft/sec)	DR-7 Depth (ft)
0	0	0	0.0	0.0	1.82	0.0	.8
.59	.4	0.02	.2	.04	.55	.3	.5
.41	.6	.16	.7	.13	.72	.2	.4
2.42	.8	.49	1.0	.15	.56	.2	.5
2.38	1.0	.65	.9	.21	1.18	.4	.5
3.03	1.7	.61	.9	.37	.24	.5	.6
3.46	1.8	.22	1.0	1.09	0	.6	.2
3.34	1.8	.31	1.2	.69	0	.6	0
2.65	1.9	.33	1.2	.36		.7	
2.39	1.7	.88	1.2	1.26		.4	
1.35	1.5	.96	1.3	2.09		.7	
1.42	1.8	1.31	1.0	2.27		.7	
1.41	1.5	1.69	1.0	2.53		.9	
1.16	1.7	1.23	1.0	2.62		.7	
0.41	1.6	1.89	1.0	2.0		.7	
0.26	1.5	1.69	1.2	2.37		.8	
0.21	.5	1.40	1.3	1.81		.7	
0.77	1.2	1.01	1.2	1.89		.7	
0.70	1.1	1.50	1.2	1.51		.4	
.27	.7	1.95	1.0	2.62		.7	
0	.5	1.15	1.0	2.16		.8	
		.61	1.0	2.53		.8	
		1.17	.8	2.22		.9	
		.99	1.0	1.77		.7	
		.58	1.0	1.17		.7	
		.18	1.0	0.3		.2	
		.11	.8	1.31		.6	
		.73	.8	.30		.5	
		.80	.5	.32		.4	
		.31	.4	.07		.4	
		.33	.3	1.69		.5	
		0	.2	2.1		.9	
		0	0	.3		.5	
				1.62		.8	
				1.75		.8	

NOTE: Each velocity reading must have a corresponding depth reading with matching cell number. Each cell represents a 1-foot subsection. Measurements are to be taken every foot.

Rico Water Sampling Form: *Stream Flow Measurements*

Location: DR-4-SW		Location: DR-G		Location:	
Benchmark Elevation: 1.85		Benchmark Elevation: 4.77		Benchmark Elevation:	
River Water Elevation: 4.5		River Water Elevation: 8.34		River Water Elevation:	
[X] East to West		[X] East to West		[ ] East to West	
[ ] West to East		[ ] West to East		[ ] West to East	
Velocity (ft/sec)	Depth (ft)	Velocity (ft/sec)	Depth (ft)	Velocity (ft/sec)	Depth (ft)
0	0	0	0	0	0
0	.1	0.10	0.1		
2.2	.9	0.45	.2		
1.67	.8	0.62	.3		
0.40	.7	0.33	.2		
0.85	.9	0.18	.3		
2.55	1.0	0.53	.5		
2.45	1.0	0.48	.5		
2.25	1.1	0.10	.6		
2.85	.7	1.61	.6		
2.41	.6	1.82	.8		
2.25	.5	1.06	.4		
1.65	.8	1.31	1.0		
1.43	1.0	0.77	1.1		
1.44	1.0	0.77	0.9		
2.47	1.0	0.75	1.0		
2.51	1.1	1.78	1.0		
2.28	1.1	2.66	1.0		
0.65	.9	3.88	1.1		
2.03	1.0	2.92	1.4		
0.66	1.2	2.48	1.1		
1.13	.9	2.89	1.0		
1.04	.7	0.61	1.1		
1.82	.8	3.31	1.1		
2.0	.7	2.14	1.2		
2.47	.6	2.70	1.1		
0.25	.6	2.81	1.0		
2.06	.6	3.04	0.4		
.6	.5	3.32	.9		
1.79	.5	1.5	1.0		
.99	.2	1.72	.9		
0	0	1.47	.6		
.68	.2	1.83	.3		
.17	.2	1.74	.4		
.33	.2	0.34	.5		

NOTE: Each velocity reading must have a corresponding depth reading with matching cell number. Each cell represents a 1-foot subsection. Measurements are to be taken every foot.

Appendix I

North Flume OTT PLS Data with Flowrates

OTT PLS Data at North Flume, April 2013

Date, Time	Depth Reading (ft)	Flowrate (cfs)	Flowrate (gpm)
4/1/2013 12:00:00 AM	0.51	1.11	497.8
4/1/2013 12:10:00 AM	0.51	1.11	497.8
4/1/2013 12:20:00 AM	0.51	1.11	497.8
4/1/2013 12:30:00 AM	0.51	1.11	497.8
4/1/2013 12:40:00 AM	0.51	1.11	497.8
4/1/2013 12:50:00 AM	0.51	1.11	497.8
4/1/2013 1:00:00 AM	0.51	1.11	497.8
4/1/2013 1:10:00 AM	0.51	1.11	497.8
4/1/2013 1:20:00 AM	0.51	1.11	497.8
4/1/2013 1:30:00 AM	0.51	1.11	497.8
4/1/2013 1:40:00 AM	0.51	1.11	497.8
4/1/2013 1:50:00 AM	0.51	1.11	497.8
4/1/2013 2:00:00 AM	0.51	1.11	497.8
4/1/2013 2:10:00 AM	0.51	1.11	497.8
4/1/2013 2:20:00 AM	0.51	1.11	497.8
4/1/2013 2:30:00 AM	0.51	1.11	497.8
4/1/2013 2:40:00 AM	0.51	1.11	497.8
4/1/2013 2:50:00 AM	0.51	1.11	497.8
4/1/2013 3:00:00 AM	0.51	1.11	497.8
4/1/2013 3:10:00 AM	0.51	1.11	497.8
4/1/2013 3:20:00 AM	0.51	1.11	497.8
4/1/2013 3:30:00 AM	0.51	1.11	497.8
4/1/2013 3:40:00 AM	0.51	1.11	497.8
4/1/2013 3:50:00 AM	0.51	1.11	497.8
4/1/2013 4:00:00 AM	0.51	1.11	497.8
4/1/2013 4:10:00 AM	0.51	1.11	497.8
4/1/2013 4:20:00 AM	0.51	1.11	497.8
4/1/2013 4:30:00 AM	0.51	1.11	497.8
4/1/2013 4:40:00 AM	0.51	1.11	497.8
4/1/2013 4:50:00 AM	0.51	1.11	497.8
4/1/2013 5:00:00 AM	0.51	1.11	497.8
4/1/2013 5:10:00 AM	0.51	1.11	497.8
4/1/2013 5:20:00 AM	0.51	1.11	497.8
4/1/2013 5:30:00 AM	0.51	1.11	497.8
4/1/2013 5:40:00 AM	0.51	1.11	497.8
4/1/2013 5:50:00 AM	0.51	1.11	497.8
4/1/2013 6:00:00 AM	0.51	1.11	497.8
4/1/2013 6:10:00 AM	0.51	1.11	497.8
4/1/2013 6:20:00 AM	0.51	1.11	497.8
4/1/2013 6:30:00 AM	0.51	1.11	497.8
4/1/2013 6:40:00 AM	0.51	1.11	497.8
4/1/2013 6:50:00 AM	0.51	1.11	497.8

4/1/2013 7:00:00 AM	0.51	1.11	497.8
4/1/2013 7:10:00 AM	0.51	1.11	497.8
4/1/2013 7:20:00 AM	0.51	1.11	497.8
4/1/2013 7:30:00 AM	0.51	1.11	497.8
4/1/2013 7:40:00 AM	0.51	1.11	497.8
4/1/2013 7:50:00 AM	0.51	1.11	497.8
4/1/2013 8:00:00 AM	0.51	1.11	497.8
4/1/2013 8:10:00 AM	0.51	1.11	497.8
4/1/2013 8:20:00 AM	0.51	1.11	497.8
4/1/2013 8:30:00 AM	0.51	1.11	497.8
4/1/2013 8:40:00 AM	0.51	1.11	497.8
4/1/2013 8:50:00 AM	0.51	1.11	497.8
4/1/2013 9:00:00 AM	0.51	1.11	497.8
4/1/2013 9:10:00 AM	0.51	1.11	497.8
4/1/2013 9:20:00 AM	0.51	1.11	497.8
4/1/2013 9:30:00 AM	0.51	1.11	497.8
4/1/2013 9:40:00 AM	0.51	1.11	497.8
4/1/2013 9:50:00 AM	0.51	1.11	497.8
4/1/2013 10:00:00 AM	0.51	1.11	497.8
4/1/2013 10:10:00 AM	0.51	1.11	497.8
4/1/2013 10:20:00 AM	0.51	1.11	497.8
4/1/2013 10:30:00 AM	0.51	1.11	497.8
4/1/2013 10:40:00 AM	0.51	1.11	497.8
4/1/2013 10:50:00 AM	0.51	1.11	497.8
4/1/2013 11:00:00 AM	0.51	1.11	497.8
4/1/2013 11:10:00 AM	0.51	1.11	497.8
4/1/2013 11:20:00 AM	0.51	1.11	497.8
4/1/2013 11:30:00 AM	0.51	1.11	497.8
4/1/2013 11:40:00 AM	0.51	1.11	497.8
4/1/2013 11:50:00 AM	0.51	1.11	497.8
4/1/2013 12:00:00 PM	0.51	1.11	497.8
4/1/2013 12:10:00 PM	0.51	1.11	497.8
4/1/2013 12:20:00 PM	0.51	1.11	497.8
4/1/2013 12:30:00 PM	0.51	1.11	497.8
4/1/2013 12:40:00 PM	0.51	1.11	497.8
4/1/2013 12:50:00 PM	0.51	1.11	497.8
4/1/2013 1:00:00 PM	0.51	1.11	497.8
4/1/2013 1:10:00 PM	0.51	1.11	497.8
4/1/2013 1:20:00 PM	0.51	1.11	497.8
4/1/2013 1:30:00 PM	0.51	1.11	497.8
4/1/2013 1:40:00 PM	0.51	1.11	497.8
4/1/2013 1:50:00 PM	0.51	1.11	497.8
4/1/2013 2:00:00 PM	0.51	1.11	497.8
4/1/2013 2:10:00 PM	0.51	1.11	497.8
4/1/2013 2:20:00 PM	0.51	1.11	497.8
4/1/2013 2:30:00 PM	0.51	1.11	497.8
4/1/2013 2:40:00 PM	0.51	1.11	497.8

4/1/2013 2:50:00 PM	0.51	1.11	497.8
4/1/2013 3:00:00 PM	0.51	1.11	497.8
4/1/2013 3:10:00 PM	0.51	1.11	497.8
4/1/2013 3:20:00 PM	0.51	1.11	497.8
4/1/2013 3:30:00 PM	0.51	1.11	497.8
4/1/2013 3:40:00 PM	0.51	1.11	497.8
4/1/2013 3:50:00 PM	0.51	1.11	497.8
4/1/2013 4:00:00 PM	0.51	1.11	497.8
4/1/2013 4:10:00 PM	0.51	1.11	497.8
4/1/2013 4:20:00 PM	0.51	1.11	497.8
4/1/2013 4:30:00 PM	0.51	1.11	497.8
4/1/2013 4:40:00 PM	0.51	1.11	497.8
4/1/2013 4:50:00 PM	0.51	1.11	497.8
4/1/2013 5:00:00 PM	0.51	1.11	497.8
4/1/2013 5:10:00 PM	0.51	1.11	497.8
4/1/2013 5:20:00 PM	0.51	1.11	497.8
4/1/2013 5:30:00 PM	0.51	1.11	497.8
4/1/2013 5:40:00 PM	0.51	1.11	497.8
4/1/2013 5:50:00 PM	0.51	1.11	497.8
4/1/2013 6:00:00 PM	0.51	1.11	497.8
4/1/2013 6:10:00 PM	0.51	1.11	497.8
4/1/2013 6:20:00 PM	0.51	1.11	497.8
4/1/2013 6:30:00 PM	0.51	1.11	497.8
4/1/2013 6:40:00 PM	0.51	1.11	497.8
4/1/2013 6:50:00 PM	0.51	1.11	497.8
4/1/2013 7:00:00 PM	0.51	1.11	497.8
4/1/2013 7:10:00 PM	0.51	1.11	497.8
4/1/2013 7:20:00 PM	0.51	1.11	497.8
4/1/2013 7:30:00 PM	0.51	1.11	497.8
4/1/2013 7:40:00 PM	0.51	1.11	497.8
4/1/2013 7:50:00 PM	0.51	1.11	497.8
4/1/2013 8:00:00 PM	0.51	1.11	497.8
4/1/2013 8:10:00 PM	0.51	1.11	497.8
4/1/2013 8:20:00 PM	0.51	1.11	497.8
4/1/2013 8:30:00 PM	0.51	1.11	497.8
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4/1/2013 9:10:00 PM	0.51	1.11	497.8
4/1/2013 9:20:00 PM	0.51	1.11	497.8
4/1/2013 9:30:00 PM	0.51	1.11	497.8
4/1/2013 9:40:00 PM	0.51	1.11	497.8
4/1/2013 9:50:00 PM	0.51	1.11	497.8
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4/1/2013 10:10:00 PM	0.51	1.11	497.8
4/1/2013 10:20:00 PM	0.51	1.11	497.8
4/1/2013 10:30:00 PM	0.51	1.11	497.8

4/1/2013 10:40:00 PM	0.51	1.11	497.8
4/1/2013 10:50:00 PM	0.51	1.11	497.8
4/1/2013 11:00:00 PM	0.51	1.11	497.8
4/1/2013 11:10:00 PM	0.51	1.11	497.8
4/1/2013 11:20:00 PM	0.51	1.11	497.8
4/1/2013 11:30:00 PM	0.51	1.11	497.8
4/1/2013 11:40:00 PM	0.51	1.11	497.8
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4/2/2013 12:10:00 AM	0.51	1.11	497.8
4/2/2013 12:20:00 AM	0.51	1.11	497.8
4/2/2013 12:30:00 AM	0.51	1.11	497.8
4/2/2013 12:40:00 AM	0.51	1.11	497.8
4/2/2013 12:50:00 AM	0.51	1.11	497.8
4/2/2013 1:00:00 AM	0.51	1.11	497.8
4/2/2013 1:10:00 AM	0.51	1.11	497.8
4/2/2013 1:20:00 AM	0.51	1.11	497.8
4/2/2013 1:30:00 AM	0.51	1.11	497.8
4/2/2013 1:40:00 AM	0.51	1.11	497.8
4/2/2013 1:50:00 AM	0.51	1.11	497.8
4/2/2013 2:00:00 AM	0.51	1.11	497.8
4/2/2013 2:10:00 AM	0.51	1.11	497.8
4/2/2013 2:20:00 AM	0.51	1.11	497.8
4/2/2013 2:30:00 AM	0.51	1.11	497.8
4/2/2013 2:40:00 AM	0.51	1.11	497.8
4/2/2013 2:50:00 AM	0.51	1.11	497.8
4/2/2013 3:00:00 AM	0.51	1.11	497.8
4/2/2013 3:10:00 AM	0.51	1.11	497.8
4/2/2013 3:20:00 AM	0.51	1.11	497.8
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4/2/2013 3:40:00 AM	0.51	1.11	497.8
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4/2/2013 4:10:00 AM	0.51	1.11	497.8
4/2/2013 4:20:00 AM	0.51	1.11	497.8
4/2/2013 4:30:00 AM	0.51	1.11	497.8
4/2/2013 4:40:00 AM	0.51	1.11	497.8
4/2/2013 4:50:00 AM	0.51	1.11	497.8
4/2/2013 5:00:00 AM	0.51	1.11	497.8
4/2/2013 5:10:00 AM	0.51	1.11	497.8
4/2/2013 5:20:00 AM	0.51	1.11	497.8
4/2/2013 5:30:00 AM	0.51	1.11	497.8
4/2/2013 5:40:00 AM	0.51	1.11	497.8
4/2/2013 5:50:00 AM	0.51	1.11	497.8
4/2/2013 6:00:00 AM	0.51	1.11	497.8
4/2/2013 6:10:00 AM	0.51	1.11	497.8
4/2/2013 6:20:00 AM	0.51	1.11	497.8

4/2/2013 6:30:00 AM	0.51	1.11	497.8
4/2/2013 6:40:00 AM	0.51	1.11	497.8
4/2/2013 6:50:00 AM	0.51	1.11	497.8
4/2/2013 7:00:00 AM	0.51	1.11	497.8
4/2/2013 7:10:00 AM	0.51	1.11	497.8
4/2/2013 7:20:00 AM	0.51	1.11	497.8
4/2/2013 7:30:00 AM	0.51	1.11	497.8
4/2/2013 7:40:00 AM	0.51	1.11	497.8
4/2/2013 7:50:00 AM	0.51	1.11	497.8
4/2/2013 8:00:00 AM	0.51	1.11	497.8
4/2/2013 8:10:00 AM	0.51	1.11	497.8
4/2/2013 8:20:00 AM	0.51	1.11	497.8
4/2/2013 8:30:00 AM	0.51	1.11	497.8
4/2/2013 8:40:00 AM	0.51	1.11	497.8
4/2/2013 8:50:00 AM	0.51	1.11	497.8
4/2/2013 9:00:00 AM	0.51	1.11	497.8
4/2/2013 9:10:00 AM	0.51	1.11	497.8
4/2/2013 9:20:00 AM	0.51	1.11	497.8
4/2/2013 9:30:00 AM	0.51	1.11	497.8
4/2/2013 9:40:00 AM	0.51	1.11	497.8
4/2/2013 9:50:00 AM	0.51	1.11	497.8
4/2/2013 10:00:00 AM	0.51	1.11	497.8
4/2/2013 10:10:00 AM	0.51	1.11	497.8
4/2/2013 10:20:00 AM	0.51	1.11	497.8
4/2/2013 10:30:00 AM	0.51	1.11	497.8
4/2/2013 10:40:00 AM	0.51	1.11	497.8
4/2/2013 10:50:00 AM	0.51	1.11	497.8
4/2/2013 11:00:00 AM	0.51	1.11	497.8
4/2/2013 11:10:00 AM	0.51	1.11	497.8
4/2/2013 11:20:00 AM	0.51	1.11	497.8
4/2/2013 11:30:00 AM	0.51	1.11	497.8
4/2/2013 11:40:00 AM	0.51	1.11	497.8
4/2/2013 11:50:00 AM	0.51	1.11	497.8
4/2/2013 12:00:00 PM	0.51	1.11	497.8
4/2/2013 12:10:00 PM	0.51	1.11	497.8
4/2/2013 12:20:00 PM	0.51	1.11	497.8
4/2/2013 12:30:00 PM	0.51	1.11	497.8
4/2/2013 12:40:00 PM	0.51	1.11	497.8
4/2/2013 12:50:00 PM	0.51	1.11	497.8
4/2/2013 1:00:00 PM	0.51	1.11	497.8
4/2/2013 1:10:00 PM	0.51	1.11	497.8
4/2/2013 1:20:00 PM	0.51	1.11	497.8
4/2/2013 1:30:00 PM	0.51	1.11	497.8
4/2/2013 1:40:00 PM	0.51	1.11	497.8
4/2/2013 1:50:00 PM	0.5	1.08	483.2
4/2/2013 2:00:00 PM	0.5	1.08	483.2
4/2/2013 2:10:00 PM	0.5	1.08	483.2

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4/29/2013 5:00:00 PM	0.51	1.11	497.8
4/29/2013 5:10:00 PM	0.51	1.11	497.8
4/29/2013 5:20:00 PM	0.51	1.11	497.8
4/29/2013 5:30:00 PM	0.51	1.11	497.8
4/29/2013 5:40:00 PM	0.51	1.11	497.8
4/29/2013 5:50:00 PM	0.51	1.11	497.8
4/29/2013 6:00:00 PM	0.51	1.11	497.8
4/29/2013 6:10:00 PM	0.51	1.11	497.8
4/29/2013 6:20:00 PM	0.51	1.11	497.8
4/29/2013 6:30:00 PM	0.51	1.11	497.8
4/29/2013 6:40:00 PM	0.51	1.11	497.8
4/29/2013 6:50:00 PM	0.51	1.11	497.8
4/29/2013 7:00:00 PM	0.51	1.11	497.8
4/29/2013 7:10:00 PM	0.51	1.11	497.8
4/29/2013 7:20:00 PM	0.51	1.11	497.8
4/29/2013 7:30:00 PM	0.51	1.11	497.8
4/29/2013 7:40:00 PM	0.51	1.11	497.8
4/29/2013 7:50:00 PM	0.51	1.11	497.8
4/29/2013 8:00:00 PM	0.51	1.11	497.8
4/29/2013 8:10:00 PM	0.51	1.11	497.8
4/29/2013 8:20:00 PM	0.51	1.11	497.8
4/29/2013 8:30:00 PM	0.51	1.11	497.8
4/29/2013 8:40:00 PM	0.51	1.11	497.8
4/29/2013 8:50:00 PM	0.51	1.11	497.8
4/29/2013 9:00:00 PM	0.51	1.11	497.8
4/29/2013 9:10:00 PM	0.51	1.11	497.8
4/29/2013 9:20:00 PM	0.51	1.11	497.8
4/29/2013 9:30:00 PM	0.51	1.11	497.8
4/29/2013 9:40:00 PM	0.51	1.11	497.8
4/29/2013 9:50:00 PM	0.51	1.11	497.8
4/29/2013 10:00:00 PM	0.51	1.11	497.8
4/29/2013 10:10:00 PM	0.51	1.11	497.8
4/29/2013 10:20:00 PM	0.51	1.11	497.8
4/29/2013 10:30:00 PM	0.51	1.11	497.8
4/29/2013 10:40:00 PM	0.51	1.11	497.8
4/29/2013 10:50:00 PM	0.51	1.11	497.8
4/30/2013 8:10:00 AM	0.51	1.11	497.8
4/30/2013 8:10:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8

4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:20:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:30:00 AM	0.51	1.11	497.8
4/30/2013 8:40:00 AM	0.51	1.11	497.8
4/30/2013 8:40:00 AM	0.51	1.11	497.8

4/30/2013 8:40:00 AM	0.51	1.11	497.8
4/30/2013 8:40:00 AM	0.51	1.11	497.8
4/30/2013 8:40:00 AM	0.51	1.11	497.8
4/30/2013 8:40:00 AM	0.51	1.11	497.8
4/30/2013 8:50:00 AM	0.51	1.11	497.8
4/30/2013 9:00:00 AM	0.51	1.11	497.8
4/30/2013 9:10:00 AM	0.51	1.11	497.8
4/30/2013 9:20:00 AM	0.51	1.11	497.8
4/30/2013 9:30:00 AM	0.51	1.11	497.8
4/30/2013 9:40:00 AM	0.51	1.11	497.8
4/30/2013 9:50:00 AM	0.51	1.11	497.8
4/30/2013 10:00:00 AM	0.51	1.11	497.8
4/30/2013 10:10:00 AM	0.51	1.11	497.8
4/30/2013 10:20:00 AM	0.51	1.11	497.8
4/30/2013 10:30:00 AM	0.51	1.11	497.8
4/30/2013 10:40:00 AM	0.51	1.11	497.8
4/30/2013 10:50:00 AM	0.51	1.11	497.8
4/30/2013 11:00:00 AM	0.51	1.11	497.8
4/30/2013 11:10:00 AM	0.51	1.11	497.8
4/30/2013 11:20:00 AM	0.38	0.71	319.2
4/30/2013 11:30:00 AM	0.5	1.08	483.2
4/30/2013 12:00:00 PM	0.5	1.08	483.2
4/30/2013 12:10:00 PM	0.55	1.24	558.0
4/30/2013 12:40:00 PM	0.55	1.24	558.0
4/30/2013 12:40:00 PM	0.55	1.24	558.0
4/30/2013 12:50:00 PM	0.55	1.24	558.0
4/30/2013 12:50:00 PM	0.55	1.24	558.0
4/30/2013 1:00:00 PM	0.55	1.24	558.0
4/30/2013 1:10:00 PM	0.55	1.24	558.0
4/30/2013 1:20:00 PM	0.55	1.24	558.0
4/30/2013 1:30:00 PM	0.55	1.24	558.0
4/30/2013 1:40:00 PM	0.55	1.24	558.0
4/30/2013 1:50:00 PM	0.55	1.24	558.0
4/30/2013 2:00:00 PM	0.55	1.24	558.0
4/30/2013 2:10:00 PM	0.55	1.24	558.0
4/30/2013 2:20:00 PM	0.55	1.24	558.0
4/30/2013 2:30:00 PM	0.55	1.24	558.0
4/30/2013 2:40:00 PM	0.55	1.24	558.0
4/30/2013 2:50:00 PM	0.55	1.24	558.0
4/30/2013 3:00:00 PM	0.55	1.24	558.0
4/30/2013 3:10:00 PM	0.55	1.24	558.0
4/30/2013 3:20:00 PM	0.55	1.24	558.0
4/30/2013 3:30:00 PM	0.55	1.24	558.0
4/30/2013 3:40:00 PM	0.55	1.24	558.0
4/30/2013 3:50:00 PM	0.55	1.24	558.0
4/30/2013 4:00:00 PM	0.55	1.24	558.0
4/30/2013 4:10:00 PM	0.55	1.24	558.0

4/30/2013 4:20:00 PM	0.55	1.24	558.0
4/30/2013 4:30:00 PM	0.55	1.24	558.0
4/30/2013 4:40:00 PM	0.55	1.24	558.0
4/30/2013 4:50:00 PM	0.55	1.24	558.0
4/30/2013 5:00:00 PM	0.55	1.24	558.0
4/30/2013 5:10:00 PM	0.55	1.24	558.0
4/30/2013 5:20:00 PM	0.55	1.24	558.0
4/30/2013 5:30:00 PM	0.55	1.24	558.0
4/30/2013 5:40:00 PM	0.55	1.24	558.0
4/30/2013 5:50:00 PM	0.55	1.24	558.0
4/30/2013 6:00:00 PM	0.55	1.24	558.0
4/30/2013 6:10:00 PM	0.55	1.24	558.0
4/30/2013 6:20:00 PM	0.55	1.24	558.0
4/30/2013 6:30:00 PM	0.55	1.24	558.0
4/30/2013 6:40:00 PM	0.55	1.24	558.0
4/30/2013 6:50:00 PM	0.55	1.24	558.0
4/30/2013 7:00:00 PM	0.55	1.24	558.0
4/30/2013 7:10:00 PM	0.55	1.24	558.0
4/30/2013 7:20:00 PM	0.55	1.24	558.0
4/30/2013 7:30:00 PM	0.55	1.24	558.0
4/30/2013 7:40:00 PM	0.55	1.24	558.0
4/30/2013 7:50:00 PM	0.55	1.24	558.0
4/30/2013 8:00:00 PM	0.55	1.24	558.0
4/30/2013 8:10:00 PM	0.55	1.24	558.0
4/30/2013 8:20:00 PM	0.55	1.24	558.0
4/30/2013 8:30:00 PM	0.55	1.24	558.0
4/30/2013 8:40:00 PM	0.55	1.24	558.0
4/30/2013 8:50:00 PM	0.55	1.24	558.0
4/30/2013 9:00:00 PM	0.55	1.24	558.0
4/30/2013 9:10:00 PM	0.55	1.24	558.0
4/30/2013 9:20:00 PM	0.55	1.24	558.0
4/30/2013 9:30:00 PM	0.55	1.24	558.0
4/30/2013 9:40:00 PM	0.55	1.24	558.0
4/30/2013 9:50:00 PM	0.55	1.24	558.0
4/30/2013 10:00:00 PM	0.55	1.24	558.0
4/30/2013 10:10:00 PM	0.55	1.24	558.0
4/30/2013 10:20:00 PM	0.55	1.24	558.0
4/30/2013 10:30:00 PM	0.55	1.24	558.0
4/30/2013 10:40:00 PM	0.55	1.24	558.0
4/30/2013 10:50:00 PM	0.55	1.24	558.0

Appendix J

North Flume Ultrasonic Sensor Data with Flowrates

Ultrasonic Sensor Data at North Flume, April 2013

Date, Time	Depth of Flow (ft)	Depth of Flow (in)	Flowrate (cfs)	Flowrate (gpm)
4/1/2013 12:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 12:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 12:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 12:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 1:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 1:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 1:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 1:45:00 AM	0.50	6.00	1.08	483.2
4/1/2013 2:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 2:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 2:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 2:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 3:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 3:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 3:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 3:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 4:00:00 AM	0.50	6.00	1.08	483.2
4/1/2013 4:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 4:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 4:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 5:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 5:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 5:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 5:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 6:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 6:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 6:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 6:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 7:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 7:15:00 AM	0.50	6.00	1.08	483.2
4/1/2013 7:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 7:45:00 AM	0.50	6.00	1.08	483.2
4/1/2013 8:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 8:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 8:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 8:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 9:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 9:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 9:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 9:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 10:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 10:15:00 AM	0.51	6.12	1.11	497.8
4/1/2013 10:30:00 AM	0.51	6.12	1.11	497.8

4/1/2013 10:45:00 AM	0.50	6.00	1.08	483.2
4/1/2013 11:00:00 AM	0.51	6.12	1.11	497.8
4/1/2013 11:15:00 AM	0.50	6.00	1.08	483.2
4/1/2013 11:30:00 AM	0.51	6.12	1.11	497.8
4/1/2013 11:45:00 AM	0.51	6.12	1.11	497.8
4/1/2013 12:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 12:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 12:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 12:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 1:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 1:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 1:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 1:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 2:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 2:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 2:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 2:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 3:00:00 PM	0.50	6.00	1.08	483.2
4/1/2013 3:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 3:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 3:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 4:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 4:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 4:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 4:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 5:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 5:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 5:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 5:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 6:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 6:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 6:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 6:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 7:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 7:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 7:30:00 PM	0.50	6.00	1.08	483.2
4/1/2013 7:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 8:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 8:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 8:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 8:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 9:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 9:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 9:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 9:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 10:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 10:15:00 PM	0.51	6.12	1.11	497.8

4/1/2013 10:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 10:45:00 PM	0.51	6.12	1.11	497.8
4/1/2013 11:00:00 PM	0.51	6.12	1.11	497.8
4/1/2013 11:15:00 PM	0.51	6.12	1.11	497.8
4/1/2013 11:30:00 PM	0.51	6.12	1.11	497.8
4/1/2013 11:45:00 PM	0.51	6.12	1.11	497.8
4/2/2013 12:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 12:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 12:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 12:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 1:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 1:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 1:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 1:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 2:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 2:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 2:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 2:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 3:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 3:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 3:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 3:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 4:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 4:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 4:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 4:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 5:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 5:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 5:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 5:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 6:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 6:15:00 AM	0.51	6.12	1.11	497.8
4/2/2013 6:30:00 AM	0.51	6.12	1.11	497.8
4/2/2013 6:45:00 AM	0.51	6.12	1.11	497.8
4/2/2013 7:00:00 AM	0.51	6.12	1.11	497.8
4/2/2013 7:15:00 AM	0.51	6.12	1.11	497.8
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4/28/2013 1:30:00 PM	0.51	6.12	1.11	497.8
4/28/2013 1:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 2:00:00 PM	0.50	6.00	1.08	483.2
4/28/2013 2:15:00 PM	0.51	6.12	1.11	497.8
4/28/2013 2:30:00 PM	0.51	6.12	1.11	497.8
4/28/2013 2:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 3:00:00 PM	0.50	6.00	1.08	483.2
4/28/2013 3:15:00 PM	0.51	6.12	1.11	497.8
4/28/2013 3:30:00 PM	0.50	6.00	1.08	483.2
4/28/2013 3:45:00 PM	0.50	6.00	1.08	483.2
4/28/2013 4:00:00 PM	0.51	6.12	1.11	497.8
4/28/2013 4:15:00 PM	0.51	6.12	1.11	497.8
4/28/2013 4:30:00 PM	0.51	6.12	1.11	497.8
4/28/2013 4:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 5:00:00 PM	0.51	6.12	1.11	497.8
4/28/2013 5:15:00 PM	0.50	6.00	1.08	483.2
4/28/2013 5:30:00 PM	0.50	6.00	1.08	483.2
4/28/2013 5:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 6:00:00 PM	0.51	6.12	1.11	497.8
4/28/2013 6:15:00 PM	0.51	6.12	1.11	497.8
4/28/2013 6:30:00 PM	0.51	6.12	1.11	497.8
4/28/2013 6:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 7:00:00 PM	0.51	6.12	1.11	497.8
4/28/2013 7:15:00 PM	0.51	6.12	1.11	497.8
4/28/2013 7:30:00 PM	0.51	6.12	1.11	497.8
4/28/2013 7:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 8:00:00 PM	0.51	6.12	1.11	497.8
4/28/2013 8:15:00 PM	0.51	6.12	1.11	497.8
4/28/2013 8:30:00 PM	0.51	6.12	1.11	497.8

4/28/2013 8:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 9:00:00 PM	0.51	6.12	1.11	497.8
4/28/2013 9:15:00 PM	0.50	6.00	1.08	483.2
4/28/2013 9:30:00 PM	0.51	6.12	1.11	497.8
4/28/2013 9:45:00 PM	0.51	6.12	1.11	497.8
4/28/2013 10:00:00 PM	0.50	6.00	1.08	483.2
4/28/2013 10:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 8:13:40 AM	0.51	6.12	1.11	497.8
4/29/2013 8:14:34 AM	0.51	6.12	1.11	497.8
4/29/2013 8:15:32 AM	0.51	6.12	1.11	497.8
4/29/2013 8:16:17 AM	0.51	6.12	1.11	497.8
4/29/2013 8:16:51 AM	0.51	6.12	1.11	497.8
4/29/2013 8:17:25 AM	0.51	6.12	1.11	497.8
4/29/2013 8:17:58 AM	0.51	6.12	1.11	497.8
4/29/2013 8:18:31 AM	0.51	6.12	1.11	497.8
4/29/2013 8:19:04 AM	0.51	6.12	1.11	497.8
4/29/2013 8:19:37 AM	0.51	6.12	1.11	497.8
4/29/2013 8:20:09 AM	0.51	6.12	1.11	497.8
4/29/2013 8:20:40 AM	0.51	6.12	1.11	497.8
4/29/2013 8:21:11 AM	0.51	6.12	1.11	497.8
4/29/2013 8:21:42 AM	0.50	6.00	1.08	483.2
4/29/2013 8:22:13 AM	0.51	6.12	1.11	497.8
4/29/2013 8:22:44 AM	0.51	6.12	1.11	497.8
4/29/2013 8:23:10 AM	0.51	6.12	1.11	497.8
4/29/2013 8:23:36 AM	0.51	6.12	1.11	497.8
4/29/2013 8:24:02 AM	0.51	6.12	1.11	497.8
4/29/2013 8:24:28 AM	0.51	6.12	1.11	497.8
4/29/2013 8:24:54 AM	0.51	6.12	1.11	497.8
4/29/2013 8:25:21 AM	0.51	6.12	1.11	497.8
4/29/2013 8:25:47 AM	0.51	6.12	1.11	497.8
4/29/2013 8:26:13 AM	0.51	6.12	1.11	497.8
4/29/2013 8:26:39 AM	0.51	6.12	1.11	497.8
4/29/2013 8:27:05 AM	0.51	6.12	1.11	497.8
4/29/2013 8:27:31 AM	0.51	6.12	1.11	497.8
4/29/2013 8:27:58 AM	0.51	6.12	1.11	497.8
4/29/2013 8:28:24 AM	0.51	6.12	1.11	497.8
4/29/2013 8:28:50 AM	0.51	6.12	1.11	497.8
4/29/2013 8:29:16 AM	0.51	6.12	1.11	497.8
4/29/2013 8:29:42 AM	0.51	6.12	1.11	497.8
4/29/2013 8:30:09 AM	0.51	6.12	1.11	497.8
4/29/2013 8:30:35 AM	0.51	6.12	1.11	497.8
4/29/2013 8:31:01 AM	0.51	6.12	1.11	497.8
4/29/2013 8:31:27 AM	0.51	6.12	1.11	497.8
4/29/2013 8:31:53 AM	0.51	6.12	1.11	497.8
4/29/2013 8:32:19 AM	0.51	6.12	1.11	497.8
4/29/2013 8:32:46 AM	0.51	6.12	1.11	497.8
4/29/2013 8:33:12 AM	0.51	6.12	1.11	497.8

4/29/2013 8:33:38 AM	0.51	6.12	1.11	497.8
4/29/2013 8:45:00 AM	0.51	6.12	1.11	497.8
4/29/2013 9:00:00 AM	0.51	6.12	1.11	497.8
4/29/2013 9:15:00 AM	0.51	6.12	1.11	497.8
4/29/2013 9:30:00 AM	0.51	6.12	1.11	497.8
4/29/2013 9:45:00 AM	0.51	6.12	1.11	497.8
4/29/2013 10:00:00 AM	0.51	6.12	1.11	497.8
4/29/2013 10:15:00 AM	0.51	6.12	1.11	497.8
4/29/2013 10:30:00 AM	0.51	6.12	1.11	497.8
4/29/2013 10:45:00 AM	0.51	6.12	1.11	497.8
4/29/2013 11:00:00 AM	0.51	6.12	1.11	497.8
4/29/2013 11:15:00 AM	0.51	6.12	1.11	497.8
4/29/2013 11:30:00 AM	0.50	6.00	1.08	483.2
4/29/2013 11:45:00 AM	0.51	6.12	1.11	497.8
4/29/2013 12:00:00 PM	0.51	6.12	1.11	497.8
4/29/2013 12:15:00 PM	0.50	6.00	1.08	483.2
4/29/2013 12:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 12:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 1:00:00 PM	0.51	6.12	1.11	497.8
4/29/2013 1:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 1:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 1:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 2:00:00 PM	0.50	6.00	1.08	483.2
4/29/2013 2:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 2:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 2:45:00 PM	0.50	6.00	1.08	483.2
4/29/2013 3:00:00 PM	0.50	6.00	1.08	483.2
4/29/2013 3:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 3:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 3:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 4:00:00 PM	0.50	6.00	1.08	483.2
4/29/2013 4:15:00 PM	0.50	6.00	1.08	483.2
4/29/2013 4:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 4:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 5:00:00 PM	0.51	6.12	1.11	497.8
4/29/2013 5:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 5:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 5:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 6:00:00 PM	0.50	6.00	1.08	483.2
4/29/2013 6:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 6:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 6:45:00 PM	0.50	6.00	1.08	483.2
4/29/2013 7:00:00 PM	0.51	6.12	1.11	497.8
4/29/2013 7:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 7:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 7:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 8:00:00 PM	0.51	6.12	1.11	497.8

4/29/2013 8:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 8:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 8:45:00 PM	0.50	6.00	1.08	483.2
4/29/2013 9:00:00 PM	0.51	6.12	1.11	497.8
4/29/2013 9:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 9:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 9:45:00 PM	0.51	6.12	1.11	497.8
4/29/2013 10:00:00 PM	0.51	6.12	1.11	497.8
4/29/2013 10:15:00 PM	0.51	6.12	1.11	497.8
4/29/2013 10:30:00 PM	0.51	6.12	1.11	497.8
4/29/2013 10:45:00 PM	0.50	6.00	1.08	483.2
4/30/2013 8:10:09 AM	0.51	6.12	1.11	497.8
4/30/2013 8:10:53 AM	0.51	6.12	1.11	497.8
4/30/2013 8:11:26 AM	0.51	6.12	1.11	497.8
4/30/2013 8:11:53 AM	0.51	6.12	1.11	497.8
4/30/2013 8:12:20 AM	0.51	6.12	1.11	497.8
4/30/2013 8:12:47 AM	0.51	6.12	1.11	497.8
4/30/2013 8:13:14 AM	0.50	6.00	1.08	483.2
4/30/2013 8:13:41 AM	0.50	6.00	1.08	483.2
4/30/2013 8:14:08 AM	0.51	6.12	1.11	497.8
4/30/2013 8:14:36 AM	0.51	6.12	1.11	497.8
4/30/2013 8:15:03 AM	0.50	6.00	1.08	483.2
4/30/2013 8:15:29 AM	0.51	6.12	1.11	497.8
4/30/2013 8:15:55 AM	0.51	6.12	1.11	497.8
4/30/2013 8:16:21 AM	0.51	6.12	1.11	497.8
4/30/2013 8:16:47 AM	0.51	6.12	1.11	497.8
4/30/2013 8:17:14 AM	0.51	6.12	1.11	497.8
4/30/2013 8:17:40 AM	0.50	6.00	1.08	483.2
4/30/2013 8:18:06 AM	0.51	6.12	1.11	497.8
4/30/2013 8:18:32 AM	0.51	6.12	1.11	497.8
4/30/2013 8:18:58 AM	0.51	6.12	1.11	497.8
4/30/2013 8:19:25 AM	0.51	6.12	1.11	497.8
4/30/2013 8:19:51 AM	0.51	6.12	1.11	497.8
4/30/2013 8:20:17 AM	0.51	6.12	1.11	497.8
4/30/2013 8:20:43 AM	0.51	6.12	1.11	497.8
4/30/2013 8:21:09 AM	0.51	6.12	1.11	497.8
4/30/2013 8:21:35 AM	0.50	6.00	1.08	483.2
4/30/2013 8:22:02 AM	0.50	6.00	1.08	483.2
4/30/2013 8:22:28 AM	0.51	6.12	1.11	497.8
4/30/2013 8:22:54 AM	0.50	6.00	1.08	483.2
4/30/2013 8:23:20 AM	0.51	6.12	1.11	497.8
4/30/2013 8:23:46 AM	0.51	6.12	1.11	497.8
4/30/2013 8:24:13 AM	0.51	6.12	1.11	497.8
4/30/2013 8:24:39 AM	0.51	6.12	1.11	497.8
4/30/2013 8:25:05 AM	0.51	6.12	1.11	497.8
4/30/2013 8:25:31 AM	0.51	6.12	1.11	497.8
4/30/2013 8:25:57 AM	0.51	6.12	1.11	497.8

4/30/2013 8:26:24 AM	0.50	6.00	1.08	483.2
4/30/2013 8:26:50 AM	0.51	6.12	1.11	497.8
4/30/2013 8:30:06 AM	0.51	6.12	1.11	497.8
4/30/2013 8:45:00 AM	0.51	6.12	1.11	497.8
4/30/2013 9:00:00 AM	0.51	6.12	1.11	497.8
4/30/2013 9:15:00 AM	0.51	6.12	1.11	497.8
4/30/2013 9:30:00 AM	0.50	6.00	1.08	483.2
4/30/2013 9:45:00 AM	0.51	6.12	1.11	497.8
4/30/2013 10:00:00 AM	0.51	6.12	1.11	497.8
4/30/2013 10:15:00 AM	0.51	6.12	1.11	497.8
4/30/2013 10:30:00 AM	0.51	6.12	1.11	497.8
4/30/2013 10:45:00 AM	0.51	6.12	1.11	497.8
4/30/2013 11:00:00 AM	0.51	6.12	1.11	497.8
4/30/2013 11:15:00 AM	0.51	6.12	1.11	497.8
4/30/2013 11:30:00 AM	0.51	6.12	1.11	497.8
4/30/2013 11:45:00 AM	0.51	6.12	1.11	497.8
4/30/2013 12:00:00 PM	0.51	6.12	1.11	497.8
4/30/2013 12:40:30 PM	0.54	6.48	1.21	542.7
4/30/2013 12:40:56 PM	0.55	6.60	1.24	558.0
4/30/2013 12:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 1:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 1:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 1:30:00 PM	0.54	6.48	1.21	542.7
4/30/2013 1:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 2:00:00 PM	0.54	6.48	1.21	542.7
4/30/2013 2:15:00 PM	0.54	6.48	1.21	542.7
4/30/2013 2:30:00 PM	0.54	6.48	1.21	542.7
4/30/2013 2:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 3:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 3:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 3:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 3:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 4:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 4:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 4:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 4:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 5:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 5:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 5:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 5:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 6:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 6:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 6:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 6:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 7:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 7:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 7:30:00 PM	0.55	6.60	1.24	558.0

4/30/2013 7:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 8:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 8:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 8:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 8:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 9:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 9:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 9:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 9:45:00 PM	0.55	6.60	1.24	558.0
4/30/2013 10:00:00 PM	0.55	6.60	1.24	558.0
4/30/2013 10:15:00 PM	0.55	6.60	1.24	558.0
4/30/2013 10:30:00 PM	0.55	6.60	1.24	558.0
4/30/2013 10:45:00 PM	0.54	6.48	1.21	542.7

Appendix K

South Flume Orpheus Mini Data with Flowrates

OTT Opheus Mini Data at South Flume, April 2013

Date	Time	Depth from top of flume to water (ft)	Depth of Flume Total (ft)	Depth of Flow (ft)	Flowrate (cfs)	Flowrate (gpm)
4/01/2013	12:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	1:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	2:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	3:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	4:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	5:00:00 AM	2.05	2.5	0.45	0.92	412.1
4/01/2013	6:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	7:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	8:00:00 AM	2.05	2.5	0.45	0.92	412.1
4/01/2013	9:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	10:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	11:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/01/2013	12:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/01/2013	1:00:00 PM	2.05	2.5	0.45	0.92	412.1
4/01/2013	2:00:00 PM	2.05	2.5	0.45	0.92	412.1
4/01/2013	3:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/01/2013	4:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/01/2013	5:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/01/2013	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/01/2013	7:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/01/2013	8:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/01/2013	9:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/01/2013	10:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/01/2013	11:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/02/2013	12:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/02/2013	1:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/02/2013	2:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	3:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	4:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	5:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	6:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	7:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	8:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	9:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	10:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	11:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/02/2013	12:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	1:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	2:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/02/2013	3:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	4:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	5:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	6:00:00 PM	2.06	2.5	0.44	0.89	398.3

4/02/2013	7:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	8:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	9:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	10:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/02/2013	11:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/03/2013	12:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/03/2013	1:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/03/2013	2:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/03/2013	3:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/03/2013	4:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/03/2013	5:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/03/2013	6:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/03/2013	7:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/03/2013	8:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/03/2013	9:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/03/2013	10:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/03/2013	11:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/03/2013	12:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/03/2013	1:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/03/2013	2:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/03/2013	3:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/03/2013	4:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/03/2013	5:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/03/2013	6:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/03/2013	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/03/2013	8:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/03/2013	9:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/03/2013	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/03/2013	11:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/04/2013	12:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/04/2013	1:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/04/2013	2:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/04/2013	3:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/04/2013	4:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/04/2013	5:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	6:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	7:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	8:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	9:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	10:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	11:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/04/2013	12:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/04/2013	1:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/04/2013	2:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/04/2013	3:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/04/2013	4:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/04/2013	5:00:00 PM	2.07	2.5	0.43	0.86	384.7

4/04/2013	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/04/2013	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/04/2013	8:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/04/2013	9:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/04/2013	10:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/04/2013	11:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/05/2013	12:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/05/2013	1:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/05/2013	2:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/05/2013	3:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/05/2013	4:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	5:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	6:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	7:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	8:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	9:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	10:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	11:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/05/2013	12:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/05/2013	1:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/05/2013	2:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/05/2013	3:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/05/2013	4:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/05/2013	5:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/05/2013	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/05/2013	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/05/2013	8:00:00 PM	2.08	2.5	0.42	0.83	371.3
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4/05/2013	10:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/05/2013	11:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/06/2013	12:00:00 AM	2.08	2.5	0.42	0.83	371.3
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4/06/2013	2:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/06/2013	3:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/06/2013	4:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/06/2013	5:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/06/2013	6:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/06/2013	7:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/06/2013	8:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/06/2013	9:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/06/2013	10:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/06/2013	11:00:00 AM	2.08	2.5	0.42	0.83	371.3
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4/06/2013	2:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/06/2013	3:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/06/2013	4:00:00 PM	2.08	2.5	0.42	0.83	371.3

4/06/2013	5:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/06/2013	6:00:00 PM	2.09	2.5	0.41	0.80	358.0
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4/06/2013	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/06/2013	9:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/06/2013	10:00:00 PM	2.08	2.5	0.42	0.83	371.3
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4/07/2013	3:00:00 AM	2.08	2.5	0.42	0.83	371.3
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4/07/2013	5:00:00 AM	2.07	2.5	0.43	0.86	384.7
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4/07/2013	3:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/07/2013	4:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/07/2013	5:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/07/2013	6:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/07/2013	7:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/07/2013	8:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/07/2013	9:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/07/2013	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/07/2013	11:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/08/2013	12:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/08/2013	1:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/08/2013	2:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/08/2013	3:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/08/2013	4:00:00 AM	2.08	2.5	0.42	0.83	371.3
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4/08/2013	9:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/08/2013	10:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/08/2013	11:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/08/2013	12:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/08/2013	1:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/08/2013	2:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/08/2013	3:00:00 PM	2.07	2.5	0.43	0.86	384.7

4/08/2013	4:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/08/2013	5:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/08/2013	6:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/08/2013	7:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/08/2013	8:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/08/2013	9:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/08/2013	10:00:00 PM	2.03	2.5	0.47	0.98	440.0
4/08/2013	11:00:00 PM	2.03	2.5	0.47	0.98	440.0
4/09/2013	12:00:00 AM	2.03	2.5	0.47	0.98	440.0
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4/09/2013	2:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	3:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	4:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	5:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	6:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	7:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	8:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	9:00:00 AM	2.04	2.5	0.46	0.95	426.0
4/09/2013	10:00:00 AM	2.05	2.5	0.45	0.92	412.1
4/09/2013	11:00:00 AM	2.05	2.5	0.45	0.92	412.1
4/09/2013	12:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/09/2013	1:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/09/2013	2:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/09/2013	3:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/09/2013	4:00:00 PM	2.03	2.5	0.47	0.98	440.0
4/09/2013	5:00:00 PM	2.03	2.5	0.47	0.98	440.0
4/09/2013	6:00:00 PM	2.03	2.5	0.47	0.98	440.0
4/09/2013	7:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/09/2013	8:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/09/2013	9:00:00 PM	2.05	2.5	0.45	0.92	412.1
4/09/2013	10:00:00 PM	2.05	2.5	0.45	0.92	412.1
4/09/2013	11:00:00 PM	2.05	2.5	0.45	0.92	412.1
4/10/2013	12:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/10/2013	1:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/10/2013	2:00:00 AM	2.06	2.5	0.44	0.89	398.3
4/10/2013	3:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/10/2013	4:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/10/2013	5:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/10/2013	6:00:00 AM	2.07	2.5	0.43	0.86	384.7
4/10/2013	7:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/10/2013	8:00:00 AM	2.11	2.5	0.39	0.74	332.0
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4/10/2013	12:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/10/2013	1:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/10/2013	2:00:00 PM	2.07	2.5	0.43	0.86	384.7

4/10/2013	3:00:00 PM	2.07	2.5	0.43	0.86	384.7
4/10/2013	4:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/10/2013	5:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/10/2013	6:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/10/2013	7:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/10/2013	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
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4/10/2013	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/10/2013	11:00:00 PM	2.10	2.5	0.40	0.77	344.9
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4/11/2013	2:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/11/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/11/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/11/2013	5:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/11/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/11/2013	7:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/11/2013	8:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/11/2013	9:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/11/2013	10:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/11/2013	11:00:00 AM	2.08	2.5	0.42	0.83	371.3
4/11/2013	12:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/11/2013	1:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/11/2013	2:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/11/2013	3:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/11/2013	4:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/11/2013	5:00:00 PM	2.04	2.5	0.46	0.95	426.0
4/11/2013	6:00:00 PM	2.02	2.5	0.48	1.01	454.3
4/11/2013	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/11/2013	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/11/2013	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/11/2013	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/11/2013	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/12/2013	12:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	1:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	2:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	3:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	5:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	6:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	7:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	8:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/12/2013	10:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	11:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/12/2013	12:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/12/2013	1:00:00 PM	1.99	2.5	0.51	1.11	497.8

4/12/2013	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/12/2013	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/12/2013	4:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/12/2013	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/12/2013	6:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/12/2013	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/12/2013	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/12/2013	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/12/2013	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/12/2013	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	12:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	1:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	2:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	3:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	5:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	6:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	7:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	8:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/13/2013	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/13/2013	11:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/13/2013	12:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/13/2013	1:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/13/2013	2:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/13/2013	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/13/2013	4:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/13/2013	5:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	10:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/13/2013	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/14/2013	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/14/2013	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/14/2013	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/14/2013	3:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/14/2013	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/14/2013	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/14/2013	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/14/2013	7:00:00 AM	1.98	2.5	0.52	1.14	512.6
4/14/2013	8:00:00 AM	1.98	2.5	0.52	1.14	512.6
4/14/2013	9:00:00 AM	1.97	2.5	0.53	1.18	527.6
4/14/2013	10:00:00 AM	1.97	2.5	0.53	1.18	527.6
4/14/2013	11:00:00 AM	1.97	2.5	0.53	1.18	527.6
4/14/2013	12:00:00 PM	1.97	2.5	0.53	1.18	527.6

4/14/2013	1:00:00 PM	1.97	2.5	0.53	1.18	527.6
4/14/2013	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/14/2013	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/14/2013	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/14/2013	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/14/2013	6:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/14/2013	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/14/2013	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/14/2013	9:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/14/2013	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/14/2013	11:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/15/2013	12:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	1:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	2:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	3:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	4:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	7:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	8:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/15/2013	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/15/2013	1:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/15/2013	2:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/15/2013	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/15/2013	4:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/15/2013	5:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/15/2013	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/15/2013	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/15/2013	8:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/15/2013	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/15/2013	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/15/2013	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/16/2013	12:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	1:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	2:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	3:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	5:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	6:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	7:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	8:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	9:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/16/2013	10:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/16/2013	11:00:00 AM	2.00	2.5	0.50	1.08	483.2

4/16/2013	12:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/16/2013	1:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/16/2013	2:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/16/2013	3:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/16/2013	4:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/16/2013	5:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/16/2013	6:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/16/2013	7:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/16/2013	8:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/16/2013	9:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/16/2013	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/16/2013	11:00:00 PM	2.01	2.5	0.49	1.04	468.6
4/17/2013	12:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/17/2013	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/17/2013	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/17/2013	3:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/17/2013	4:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/17/2013	5:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/17/2013	6:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/17/2013	7:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/17/2013	8:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/17/2013	9:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/17/2013	10:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/17/2013	11:00:00 AM	1.99	2.5	0.51	1.11	497.8
4/17/2013	12:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/17/2013	1:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/17/2013	2:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/17/2013	3:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/17/2013	4:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/17/2013	5:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/17/2013	6:00:00 PM	1.98	2.5	0.52	1.14	512.6
4/17/2013	7:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/17/2013	8:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/17/2013	9:00:00 PM	1.99	2.5	0.51	1.11	497.8
4/17/2013	10:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/17/2013	11:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/18/2013	12:00:00 AM	2.00	2.5	0.50	1.08	483.2
4/18/2013	1:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/18/2013	2:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/18/2013	3:00:00 AM	2.02	2.5	0.48	1.01	454.3
4/18/2013	4:00:00 AM	2.11	2.5	0.39	0.74	332.0
4/18/2013	5:00:00 AM	2.18	2.5	0.32	0.55	246.2
4/18/2013	6:00:00 AM	2.22	2.5	0.28	0.45	201.2
4/18/2013	7:00:00 AM	2.25	2.5	0.25	0.38	169.6
4/18/2013	8:00:00 AM	2.26	2.5	0.24	0.36	159.4
4/18/2013	9:00:00 AM	2.01	2.5	0.49	1.04	468.6
4/18/2013	10:00:00 AM	1.91	2.5	0.59	1.38	620.4

4/18/2013	11:00:00 AM	1.93	2.5	0.57	1.31	588.9
4/18/2013	12:00:00 PM	1.97	2.5	0.53	1.18	527.6
4/18/2013	1:00:00 PM	2.00	2.5	0.50	1.08	483.2
4/18/2013	2:00:00 PM	2.03	2.5	0.47	0.98	440.0
4/18/2013	3:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/18/2013	4:00:00 PM	2.06	2.5	0.44	0.89	398.3
4/18/2013	5:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/18/2013	6:00:00 PM	2.08	2.5	0.42	0.83	371.3
4/18/2013	7:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/18/2013	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/18/2013	9:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/18/2013	10:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/18/2013	11:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/19/2013	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	1:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	2:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	5:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	8:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	10:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/19/2013	11:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/19/2013	12:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/19/2013	1:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/19/2013	2:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/19/2013	3:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/19/2013	4:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/19/2013	5:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/19/2013	6:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/19/2013	7:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/19/2013	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/19/2013	9:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/19/2013	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/19/2013	11:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	12:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	1:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	2:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	3:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	4:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	5:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	6:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	7:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	8:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	9:00:00 AM	2.09	2.5	0.41	0.80	358.0

4/20/2013	10:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	11:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/20/2013	12:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	1:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	2:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	3:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	4:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	5:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	6:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	7:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/20/2013	8:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	9:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	10:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/20/2013	11:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	1:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/21/2013	2:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/21/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	5:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	8:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	10:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/21/2013	11:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/21/2013	12:00:00 PM	2.09	2.5	0.41	0.80	358.0
4/21/2013	1:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	2:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	3:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	4:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	5:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	6:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/21/2013	7:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/21/2013	8:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/21/2013	9:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/21/2013	10:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/21/2013	11:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	1:00:00 AM	2.11	2.5	0.39	0.74	332.0
4/22/2013	2:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	5:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	8:00:00 AM	2.10	2.5	0.40	0.77	344.9

4/22/2013	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	10:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	11:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/22/2013	12:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/22/2013	1:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	2:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	3:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	4:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	5:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	6:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	7:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/22/2013	8:00:00 PM	2.11	2.5	0.39	0.74	332.0
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4/23/2013	4:00:00 AM	2.11	2.5	0.39	0.74	332.0
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4/23/2013	8:00:00 AM	2.11	2.5	0.39	0.74	332.0
4/23/2013	9:00:00 AM	2.11	2.5	0.39	0.74	332.0
4/23/2013	10:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/23/2013	11:00:00 AM	2.11	2.5	0.39	0.74	332.0
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4/23/2013	3:00:00 PM	2.12	2.5	0.38	0.71	319.2
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4/26/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
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4/27/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
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4/27/2013	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/27/2013	10:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/27/2013	11:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/27/2013	12:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/27/2013	1:00:00 PM	2.10	2.5	0.40	0.77	344.9
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4/27/2013	6:00:00 PM	2.10	2.5	0.40	0.77	344.9
4/27/2013	7:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/27/2013	8:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/27/2013	9:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/27/2013	10:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/27/2013	11:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/28/2013	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	1:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	2:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	5:00:00 AM	2.10	2.5	0.40	0.77	344.9

4/28/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	8:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/28/2013	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
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4/29/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/29/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/29/2013	5:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/29/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/29/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
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4/29/2013	12:00:00 PM	2.10	2.5	0.40	0.77	344.9
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4/30/2013	12:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	1:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	2:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	3:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	4:00:00 AM	2.10	2.5	0.40	0.77	344.9

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4/30/2013	6:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	7:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	8:00:00 AM	2.09	2.5	0.41	0.80	358.0
4/30/2013	9:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	10:00:00 AM	2.10	2.5	0.40	0.77	344.9
4/30/2013	11:00:00 AM	2.10	2.5	0.40	0.77	344.9
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4/30/2013	4:00:00 PM	2.11	2.5	0.39	0.74	332.0
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4/30/2013	6:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/30/2013	7:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/30/2013	8:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/30/2013	9:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/30/2013	10:00:00 PM	2.11	2.5	0.39	0.74	332.0
4/30/2013	11:00:00 PM	2.10	2.5	0.40	0.77	344.9

Appendix L

Technical Standard Operating Procedure – Collection of Cross-Channel Surface Water Samples

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1.0 PURPOSE

This standard operating procedure (SOP) describes the requirements and process for collecting surface water samples from multiple locations across the channel of a wadeable stream. Collecting multiple samples along a transect perpendicular to the stream flow will provide information on the homogeneity of water chemistry across the channel (if samples are analyzed independently) or will provide a representative sample of stream water chemistry (if individual samples are composited before analysis). This procedure can be used wherever it is possible to wade completely across the channel. Where the water is too deep for wading, these procedures maybe modified to be used from a stable boat. Samples collected using this method may be analyzed on-site or transported to a laboratory. Proper preservation techniques may vary depending on the target analytes. Site-specific deviations from this SOP must be approved by the AECI Project Manager or the Client Project Manager prior to initiation of the sampling activity.

2.0 SCOPE

Surface water sampling is applicable to most study sites with surface drainages directly on the site or that are located hydraulically downgradient from such drainages.

3.0 REQUIREMENTS

Factors that may affect the ability to collect cross-channel samples include channel width, water depth, water velocity, channel bed stability and composition of the substrata. For successful completion of this procedure, a site must be safely accessible by sampling personnel access to the entire width of the stream channel must be possible. Ultra clean methods shall be followed for sampling activities.

3.1 Health and Safety

Stream substrata, or bed material, can be highly variable, even within a small stream section, and may pose a risk to those working in the stream. Large rocks with significant algal growth can be slick and those pose a fall risk. Rocks and sand can shift when weight is applied to them. Sharp rocks, sticks and artificial debris (broken bottles, metals, barbed wire) can puncture boots and skin. Before wading into a new area of the stream, examine the area visually, if possible, and use one foot to gently probe and stream bottom for suitable footing. If necessary, use a wading staff for stability.

PPE: Waders, nitrile or similar gloves.

Operational or safety issues associated with this procedure shall be reported to the on-site supervisor, AECI Project Manager, SH&E Coordinator, or their designees for resolution. Employees and contractors are required to stop work when they believe work conditions are unsafe.

4.0 REFERENCES

USGS. 1999. *National Field Manual for the Collection of Water-Quality Data, Chapter A4. Collection of Water Samples*.

USEPA. *Water: Monitoring and Assessment*. Chapter 5 Water Quality Conditions. (website)

USEPA. 1999. Rapid *Bioassessment Protocols for use in Wadeable Streams and Rivers*. EPA 841-B-99-002.

USEPA. 1996. *Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels.* EPA Method 1669. Office of Water, Engineering and Analysis Division, Washington, DC.
USGS. 1985. *Study and Interpretation of the Chemical Characteristics of Natural Water*. USGS Water Supply Paper 2254.

5.0 DEFINITIONS

Environmental Sample – Low concentration sample typically collected offsite and not requiring DOT hazardous waste labeling as a high hazard sample.

Clean Hands – All operations involving contact with the sample bottle and transfer of the sample from the sample collection device to the sample bottle are handled by the individual designated as "clean hands."

Dirty Hands – All operations involving preparation of the sampler (except the sample container itself), operation of any machinery and all other activities that do not involve direct contact with the sample, shall be performed by the individual designated as "dirty hands."

6.0 RESPONSIBILITIES

Project Manager

The Project Manager (PM) is responsible for the selection of the appropriate methodology, technique and field procedure for conducting the sampling.

Field Project Leader

The Field Project Leader (FPL) may be an AECI employee or contractor who is responsible for overseeing the sampling activities. The FPL is also responsible for making on-site decisions as to slight shifts in the cross-channel sampling location in order to ensure a safe working environment and that representative samples will be collected. The FPL provides oversight for all work performed and verification that the activity satisfies the requirements of this SOP and the Project Plan.

7.0 EQUIPMENT

1. Sampling bottles (certified clean and pre-treated with preservatives, if necessary)
2. Large (~2 L to 5 gallon) mixing bottles (e.g., a clean cubitainer)
3. Decontamination equipment and supplies
4. Nitrile gloves
5. Shoulder-length gloves
6. Peristaltic sump, clean tubing and 0.45 µm inline filters, or
7. 60 cc syringes and 0.45 µm syringe filters
8. Labels
9. Sharpies® or other indelible markers
10. 100-foot tape measure or rope with accurately-marked intervals
11. ≥ 3 foot rebar or wooden stakes
12. Orange plastic flagging
13. Hammer

8.0 PROCEDURE

8.1 General Procedures for Collection of Cross-Channel Water Samples

- Determine whether the multiple samples collected across the channel will be composited into a single sample, or analyzed independently. If the latter, then sufficient volume must be collected at each site for all analyses.
- Acquire the necessary number and type of sample containers for all samples. A "sample" (composite or multiple individual samples) will consist of five (5) bottles, including two 250-mL acidified (to ≤ 2 pH with nitric acid) high density polyethylene (HDPE) bottles (one non-filtered for total metals and hardness analysis, and one filtered (0.45 µm) for dissolved metals analysis), one 250-mL HPDE bottle with NaOH (for cyanide analysis), one 250-mL HDPE bottle (unpreserved) for salinity, and one 500-mL HDPE bottle (unpreserved) for the remaining inorganic analyses.
- Upon arrival at the site, one member of the sampling shall be designated as "dirty hands" and a second member shall be designated as "clean hands."
- The cross-channel samples shall follow the general USGS procedure of equal-width-increment (EWI) sampling. Each stream section to be sampled will be of approximately equal width.
- If samples are to be collected at multiple transects, begin work at the furthest downstream location.
- Select the sampling transect location. One person shall stand at the edge of one bank of the stream holding the tape or rope and a second person shall carry the end of the tape or rope across the stream. As much as possible, minimize disturbance of the stream bottom and limit the area of travel to a narrow corridor. Samples shall always be collected upstream of the disturbed area.
- With the tape or rope as taut as possible, secure the tape/rope to stakes on each bank.
- Determine the number of sampling compartments (sections). See Figure 1 of this SOP and follow this general guidance:
    - Small stream (≤25 ft in width): 4-6 compartments
    - Intermediate stream (>25 – 50 ft in width): 6-12 compartments
    - Large stream (>50 ft in width): ≥ 12 compartments
- Stream features should also be used in determining the number of compartments. IT may be appropriate to place different features (pools, runs, ripples, eddies) into separate compartments. A seemingly homogenous reach (e.g., a consistent run) will probably require fewer compartments.
- Using the hammer, drive a stake into the stream bed marking the center of the compartment. Tie an orange flag at the top of each stake to make them more visible.

8.2 Collection of Independent Samples in each Compartment

- One of the unpreserved sample bottles may be used to collect water from the stream at each staked location, or a separate container may be used. As 1500 mL are needed for all analyses, a 2 L collection bottle would be adequate for collecting the individual compartment samples (new bottle for each compartment).
- Don clean gloves. Nitrile gloves are acceptable, however, for deeper water wear clean, shoulder-length gloves.
- Approach the location from the downstream side. Once in position, wait approximately 30 seconds (or longer if needed) for any disturbed fine sediment to be carried downstream.

- At the midpoint of the compartment, where the stake is located, rinse the bottle three times with stream water. Just upstream of the stake, place the sampling bottle into the water, gently lowering it through the water column. The mouth of the bottle should be facing generally upstream, but the bottle should be angled upward at ~20-45° to allow air to escape as the bottle fills. Do not touch the bottom of the stream, as that may disturb sediment. Raise the bottle slowly back up through the water column. The bottle should be full when it is lifted from the water.
- Securely replace the bottle cap and hand the filled bottle to another staff member (or place it on a rock or other location where it will not be carried downstream). Each bottle should be appropriately marked with the correct compartment number.
- Go to the next compartment, again approaching from the downstream side, and repeat the collection process.
- Divide the sample into the appropriate preserved and unpreserved bottles (see Section 8.4 of this SOP).

8.3 Collection of a Composite Sample

- Before collecting samples for analysis, determine in which compartment a sample bottle will fill the fastest when lowered and raised through the water column (e.g., 1 minute, 30 seconds, etc.). This will be the Transit time. Use this same Transit time at all compartments, even if a bottle is not completely filled when brought back to the surface.
- As 1500 mL are needed for all analyses, a 1 L collection bottle should be adequate for collecting the individual compartment samples, which will be mixed as a composite sample before being subdivided for analyses. Use a new bottle for each compartment.
- Don clean gloves. Nitrile gloves are acceptable, however, for deeper water wear clean, shoulder-length gloves.
- Approach the location from the downstream side. Once in position, wait approximately 30 seconds (or longer if needed) for any disturbed fine sediment to be carried downstream.
- At the midpoint of the compartment, where the stake is located, rinse the bottle three times with stream water. Just upstream of the stake, gently lower and raise the sampling bottle into the water within the pre-determined Transit time. The mouth of the bottle should be facing generally upstream, but the bottle should be angled upward at ~20-45° to allow air to escape as the bottle fills. Do not touch the bottom of the stream, as that may disturb sediment. The bottle may not be completely full when it is lifted from the water.
- Securely replace the bottle cap and hand the filled bottle to another staff member (or place it on a rock or other location where it will not be carried downstream). Each bottle should be appropriately marked with the correct compartment number.
- Go to the next compartment, again approaching from the downstream side, and repeat the collection process.

- When all compartment samples have been collected, mix each by vigorously inverting them no less than three times, and immediately emptying them into the large mixing bottle. Make sure the mixing bottle is large enough to contain the water collected.
- Cap the mixing bottle and homogenize the composite sample by vigorously and repeatedly swirling and inverting the bottle for no less than one minute.
- Divide the sample into the appropriate preserved and unpreserved bottles (see Section 8.4 of this SOP). Some sample may remain in the mixing bottle.

8.4 Dividing a Sample to Individual Analyte Bottles

- Fill all containers, <u>except</u> the one for dissolved metals, with the raw water sample, either the individual compartment samples, or the composite.
- <u>Do not</u> overfill the bottles that already contain preservative.
- For the dissolved metals sample, filter 250 mL of the raw water sample using a 1) peristaltic pump equipped with new, disposable tubing and a new, 0.45 µm filter, or 2) new, 60 cc syringe and 0.45 µm filter syringes.
- If using a pump, tubing and filter, place the intake tube into the raw sample and the outlet tube into the 250 mL sample bottle with preservative. Activate the pump and filter enough water to fill the sample bottle, without overfilling.
- If using a syringe and syringe filters, draw approximately 60 cc of the raw water sample into the syringe <u>before</u> the filter is attached. Attach the filter and depress the plunger while holding the syringe filter outlet over the preserved sample bottle. It may be necessary to stop and replace the filter if the raw water contains a high level of solids.
- Make sure all sample bottles are securely capped and labeled.

9.0 DOCUMENTATION/VERIFICATION

A record of field activities, including the number and type of samples collected, shall be recorded on field data sheets or in a field log. The log shall be reviewed by the FPL to verify the accuracy of the data.
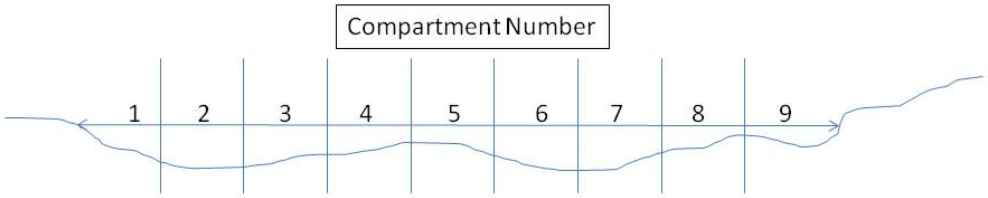
Figure 1. Example of the general placement of the cross-channel sampling compartments for the equal-width-increment (EWI) sampling procedure.