APPENDIX G

Geochemical Characterization
Data Summary Report

RESOLUTION COPPER MINING, LLC

GEOCHEMICAL CHARACTERIZATION DATA SUMMARY REPORT

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LIST OF ACRONYMNS AND ABBREVIATIONS

ABA	acid base accounting
ADEQ	Arizona Department of Environmental Quality
ADHS	Arizona Department of Health Services
AGP	acid generating potential
ANP	acid neutralizing potential
APP	aquifer protection permit
$CaCO_3$	calcium carbonate (calcite)
CCB	continuing calibration blank
EDX	energy dispersive x-ray
EIS	environmental impact statement
EPA	Environmental Protection Agency
H_20_2	hydrogen peroxide
HCT	humidity cell testing
ICP	inductively coupled plasma
ICP-MS	inductively coupled plasma – mass spectrometry
ICS	interference check standard
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MS/MSD	matrix spike/matrix spike duplicate
NAG	net acid generation
NNP	net neutralization potential
NPAG	not potentially acid generating

LIST OF ACRONYMNS AND ABBREVIATIONS (continued)

NPR	neutralization potential ratio
PAG	potentially acid generating
PFS	pre-feasibility study
QAPP	quality assurance project plan
RCML	Resolution Copper Mining, LLC
RPD	relative percent differences
SCT	saturated column test
SEM	scanning electron microscope
SPLP	synthetic precipitation leaching procedure
TDS	total dissolved solids
XRD	x-ray diffraction
XRF	x-ray fluorescence

EXECUTIVE SUMMARY

A geochemical characterization was completed as part of the Pre-Feasibility Study for Resolution Copper Mining, LLC. The geochemical characterization of overburden, development rock, and ore will support the Arizona Department of Environmental Quality (ADEQ) Aquifer Protection Permit (APP) Program and the Plan of Operations, which taken together will be used to support the Environmental Impact Statement (EIS) prepared for the project. Additionally, the data generated was used to construct a geochemical model to assess the impacts of block cave mining to groundwater during operations and following closure.

Samples were selected for geochemical testing from exploration core that represented the major geological units that will be mined at the Resolution Copper Mine. The sampling program aimed to characterize rock that will be mined and the rock that will remain in-place above the zone following the cessation of mining activities. Following sample selection, static and kinetic tests were performed to evaluate the geochemical characteristics of the rocks.

Static, Tier 1, testing included acid base accounting, net acid generation, synthetic precipitation leaching procedure, and whole rock chemical analysis. The acid base accounting and net acid generation testing results demonstrated that the majority of the rocks tested had the potential to generate acidic conditions. Leachate tests determined that several samples had elevated levels of aluminum, iron, manganese, chloride, fluoride, and sulfate when compared to U.S. drinking water standards. The results of the whole rock chemical analysis showed that the samples were generally elevated in most metals and metalloids when compared to the crustal averages, these results were as expected for rock associated with an ore deposit.

Kinetic, Tier 2, testing was conducted on a limited number of samples that were representative of the Tier 1 sample results and were weighted toward the abundance of the rock types expected to occur within and above the ore body. Tier 2 testing consisted of humidity cell testing, saturated column testing, grain size analysis, and mineralogical testing of pre- and post- kinetic test material. The humidity cell results demonstrated that most of the samples that were determined to be potentially acid-generating during Tier 1 testing produced acidic leachates. Those samples that were classified as having uncertain potential to generate acid typically did not generate acidic leachate. Saturated column tests on HCTs which produced acidic leachate, showed rapid rinse-out of acidity; however, for columns with alkaline pH, alkalinity showed a less rapid rinse-out. Through mineralogical testing it was determined that typically 30 to 50 percent of the sulfides (pyrite) were encapsulated in silicates, therefore, the oxidation of those sulfides is

many orders of magnitude slower than with exposed pyrite. Testing results also showed that secondary mineral phases that precipitated during humidity cell testing generally could not be detected, suggesting that HCTs operated as designed by rinsing out nearly all of the reaction products on a weekly basis.

1.0 INTRODUCTION

As part of the Resolution Copper Mining, LLC (RCML) Pre-Feasibility Study (PFS), a geochemical characterization of the rocks within the mine was completed to support the Arizona Department of Environmental Quality (ADEQ) Aquifer Protection Permit (APP) Program and the Plan of Operations, which taken together will be used to support the Environmental Impact Statement (EIS) prepared for the project. The geochemical characterization of overburden, development rock, and ore at the Resolution Copper Mine will also be used to support a geochemical model developed to assess impacts to groundwater from block cave mining during operations and following closure.

To evaluate geochemical characteristics of the rock at the Resolution Copper Mine, both Tier 1 (static) and Tier 2 (kinetic) tests were performed, as required by the ADEQ APP program. Tier 1 testing included acid base accounting (ABA), net acid generation (NAG), synthetic precipitation leaching procedure (SPLP), and whole rock chemical analysis. Tier 1 testing was performed by ACZ Laboratories, Inc. of Steamboat Springs, Colorado. Tier 2 testing included humidity cell tests (HCTs). Humidity cell testing described in this report was performed between August 2008 and January 2010. In addition, samples used in the humidity cell testing were subsequently analyzed for their mineralogical composition and saturated leaching characteristics. Humidity cell testing and weekly monitoring of general chemistry was performed by Chemac Environmental Services of Centennial, Colorado. Complete chemical analyses of the HCT leachate were performed by ACZ Laboratories. To support parameterization of the geochemical model, grain size analyses were also completed on all of the samples subjected to humidity cell testing and saturated column testing. Grain size analyses were performed by Skyline Laboratories of Tucson, Arizona.

To evaluate water quality that would be expected after mining ceases, when mine dewatering is discontinued and portions of the block cave flood, saturated flow through column testing was completed on a subset of samples that were previously evaluated with humidity cell tests. Saturated column tests (SCTs) described in this report were performed between February and May 2010 by Chemac Environmental Services. Chemical analyses of leachate were performed by ACZ Laboratories.

As a means to more fully understand the geochemical processes and dissolution reactions potentially influencing the chemical composition of groundwater from the block cave mining, mineralogical tests were completed on the samples that were evaluated as part of the saturated cell testing program. Mineralogical tests of the saturated cell test post-mortem HCT materials was performed before saturated column testing in order to identify secondary soluble mineral phases that could affect rinse-out chemistry,

support mineral phases included in the geochemical model, and collect observations of sulfide crystal morphology and grain size. Sulfide mineralogical properties (pyrite encapsulation and crystal habit) were assessed to explain anomalous observations of leachate chemistry measured during humidity cell testing. Mineralogical analyses were not completed on post-mortem SCTs because the testing procedure would dissolve secondary mineral precipitates. Mineralogical tests included petrography (transmitted and reflected light), x-ray diffraction (XRD), and scanning electron microscopy (SEM). Mineralogical tests were by completed by MWH personnel at the Colorado School of Mines, Golden, Colorado, and by personnel at Resolution Copper, Superior, Arizona.

This report presents a summary of the methods used and results obtained from the geochemical characterization program. Data are presented in tables in Appendices A through L. A summary of the data verification is provided in Appendix M.

2.0 ANALYTICAL METHODS

2.1 Sample Selection

Samples selected for the geochemical testing were collected from exploration core that represented the major geological units that will be mined, covered the range in geochemical properties, and from throughout the area of the ore deposit and associated country rocks. Geochemical information for the block cave and surrounding area, and information supporting the geochemical testing program, are summarized in the *Draft Final Proposal for Geochemical Characterization of Resolution Copper Mining Block-Caving Zone* (Geochimica, 2008). One objective of the sampling program was to characterize the rock that will remain in-place above the ore zone following the cessation of mining activities. The number of samples selected for each lithology and alteration type was weighted by relative abundance. Furthermore, the sampling focused toward rocks overlying the block cave because these units would remain in the mine following closure, whereas the majority of the ore will be removed during mining. As a contingency, several ore-grade samples were also included in the tests to provide representation of all sulfide-bearing rock/alteration types, and provide information regarding leachate chemistry of the ore zone should mining cease earlier than planned. Material is considered to be ore-grade if the material that will be mined is located within the 1 percent copper shell; material located outside the 1 percent copper shell is considered to be non-ore grade.

Tier 1 testing included 226 primary (and 13 duplicate) analyses for ABA, SPLP, NAG, and whole rock analysis (239 total samples). Samples were collected based on information presented in Geochimica (2008) and based on discussions held between RCML, Geochimica, and MWH. Lithologic groups and alteration types as well as the corresponding number of samples included in the Tier 1 testing program are summarized in Table 1. Excluding duplicates, approximately 60 percent of the samples were collected representing lithologic/alteration types located above and outside the 1 percent copper shell and 40 percent were within the 1 percent copper shell (i.e., ore). Samples for Tier 1 testing were collected from boreholes:

- RES-001C (27 samples and 3 duplicates)
- RES-002A (27 samples and 3 duplicates)
- RES-005I & 5J (73 samples and 1 duplicates)
- RES-006D (27 samples and 2 duplicates)
- RES-009, 9D, & 9E (72 samples and 4 duplicates).

Tier 2 testing included 47 primary humidity cell tests, 4 duplicates with identical rock masses, 2 duplicate with a different rock mass, and 1 triplicate with different rock masses (54 total samples). Excluding duplicates, approximately 55 percent of the samples were collected from outside (above) of the 1 percent copper shell, 35 percent were within the 1 percent copper shell, and 10 percent outside of the ore body. Samples collected outside of the ore body were included from RES-008A to evaluate the leachate chemistry of development rock produced during construction of Shaft 10. Samples for Tier 2 testing were collected from:

- RES-001C (6 samples and 2 duplicates)
- RES-002A (5 samples and 1 duplicate)
- RES-005I & 5J (11 samples and 1 duplicate)
- RES-006D (6 samples)
- RES-008 (5 samples)
- RES-009 & 9E (14 samples, 2 duplicate, and 1 triplicate).

Tier 2 tests were performed over a 16-week to 74-week period. Throughout the testing period columns were terminated at variable timeframes typically when chemical steady state was observed in the column leachate for several weeks. Also, 18 of the tests were terminated because the fine-grained material within the columns made standard column operation and sampling impossible. After 10 weeks of testing, these columns were converted to shoeboxes (i.e., a rectangular plastic container with a tight-fitting lid). Half of the shoebox tests were discontinued after six weeks of testing because the configuration did not meet testing program objectives (e.g., shoebox tests appeared to be characterizing surface oxidation, with limited oxygen penetration). Lithologic groups, alteration types, and termination dates for the Tier 2 tests are summarized in Table 2. All 54 samples included as part of the Tier 2 testing program were subjected to grain size analyses.

To evaluate water quality that would be expected after mining ceases and mine dewatering is discontinued (i.e., if parts of the block cave flood), saturated column tests were performed on samples from 14 of the 54 HCTs (Table 3) after the Tier 2 testing program was terminated. Samples selected for saturated column testing represented the major geological units and alteration types that will be mined, covered the range in geochemical properties, and were from material sampled throughout the area of the ore deposit and associated country rocks. One objective of the sampling program was to characterize the rock that will remain in-place above the ore zone following the cessation of mining activities.

Consequently, the sampling focused on rocks overlying the block cave because these units would remain in the mine following closure (and may eventually become reflooded), whereas the majority of the ore will be removed during mining. However, as a contingency, several ore samples were also included in the tests to provide representation of all sulfide-bearing rock/alternation types, and provide information regarding leachate chemistry of the ore zone should mining cease earlier than planned.

For the saturated column testing, 50 percent (7) of the samples were collected from outside of (above) the 1 percent copper shell, 43 percent (6 samples) were within (below) the 1 percent copper shell, and 7 percent (1 sample) was from outside (laterally) the ore body. The sample collected outside of the ore body was included from RES-008A to evaluate the leachate chemistry of a particular rock/alteration type. Samples for saturated column testing were collected from:

- RES-001C (1 sample)
- RES-002A (3 samples)
- RES-005I (1 sample)
- RES-006D (1 sample)
- RES-008 (1 sample)
- RES-009 & 9E (7 samples).

Saturated column testing was initiated on February 28, 2010 and ran for 12 weeks. Saturated column tests were terminated once metals concentrations rinsed-out or equilibration conditions were established. The week 1 sample was collected on March 8, 2010, while the week 12 sample was collected on May 24, 2010.

All 14 saturated column tests samples were subjected to mineralogical testing. Pre-HCT mineralogical analyses included petrography and XRD, and was completed by RCML and MWH. Post-HCT mineralogical analyses included petrography, XRD, and SEM, and was completed by MWH personnel at Colorado School of Mines in Golden, Colorado.

2.2 Tier 1 Testing

2.2.1 Acid Base Accounting

Acid base accounting tests evaluate the balance between potentially acid generating minerals and acid neutralizing minerals in a rock or soil sample. The results of ABA tests are indicative of the potential of a geologic material to generate acidity due to exposure to air and water. Static-based ABA tests cannot be

used to determine whether a material would actually generate acidic leachate during oxidation, nor do they provide quantitative data regarding leachate chemistry. Kinetic based tests (e.g., HCTs) are generally used for those purposes.

The following ABA measurements were completed: total-sulfur, pyritic-sulfide-sulfur, sulfate-sulfur, and acid neutralization potential. The acid generating potential was calculated from the amount of sulfide-sulfur, which in turn was determined as the difference between the amount of total-sulfur and sulfate-sulfur. The amount of residual-sulfur was computed by difference between the amount of total-sulfur and the summation of all other sulfur species measured, and represents mass balance closure.

The acid generating potential (AGP) of a material was determined from the calculated amount of sulfide-sulfur contained within the rock. The acid neutralizing potential (ANP) is a measure of the amount of carbonate minerals (particularly calcite) within the rock. The ANP does not consider potential ANP from non-carbonate rocks. AGP and ANP are both reported in units of tons of equivalent calcium carbonate ($CaCO_3$) per kiloton of rock (T $CaCO_3$/kT rock). ABA results are interpreted by computing the net neutralization potential (NNP) of the samples (NNP = ANP - AGP) and the neutralization potential ratio (NPR) of the samples (NPR = ANP / AGP).

Rocks with a NNP greater than 0.0 T $CaCO_3$/kT rock or a NPR greater than 1.0 theoretically have more acid neutralizing potential available than acid generating potential, whereas rocks with a NNP less than 0.0 T $CaCO_3$/kT rock and a NPR less than 1.0 theoretically have more acid generating potential than acid neutralizing potential. In addition, rocks with less than 0.3 percent sulfide-sulfur generally are not considered capable of sustaining acid generation and are commonly classified as non-acid generating (Price, 1997; Soregaroli and Lawrence, 1998).

2.2.2 Net Acid Generation Testing

Net Acid Generation tests use hydrogen peroxide (H_2O_2), which is a strong oxidizing agent capable of rapidly oxidizing sulfide minerals. NAG testing was conducted on all of the Tier 1 samples using the methodology outlined in Stewart et al. (2006). The procedure was developed more than 20 years ago as a method for measuring sulfide content (Sobek et al., 1978), but interpretation of the test results have changed over the last decade. The main purpose of the test is to assess whether a sample is capable of neutralizing the acidity produced by complete oxidation of sulfide minerals. The NAG test greatly accelerates sulfide oxidation with the assumption that neutralization potential dissolution remains proportional. The test also provides an estimate of the expectant leachate chemistry following complete sulfide mineral oxidization. The NAG test can be valuable as a quantitative indicator of the amount of

measured sulfide available to oxidize, but does not provide a quantitative estimate of the neutralization potential (as provided by ABA tests).

After complete oxidation, the pH of the NAG solution indicates whether the sample is not acid generating or potentially acid generating. Test results are interpreted according to the following criteria (Stewart et al., 2006):

- Not potentially-acid generating (NPAG) if final pH > 4.5Potentially acid generating (PAG) if final pH < 4.5

In addition to measurement of final NAG solution pH, the resulting NAG solution was also analyzed as part of this testing program for a full suite of chemical parameters including: acidity (total), electrical conductivity, aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chloride, chromium (total), cobalt, copper, fluoride, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silica, silver, sodium, sulfate, thallium, uranium, vanadium, and zinc.

2.2.3 Synthetic Precipitation Leaching Procedure

Synthetic precipitation leaching procedure testing is a procedure used to determine what chemical constituents are likely to initially leach from a geologic material during exposure to precipitation or surface water runoff. SPLP testing was conducted on all of the Tier 1 samples using EPA Method 1312. The SPLP test is a standardized leaching test that uses a 20:1 water to rock ratio (100 grams of rock) in either a percolation column or a bottle roll apparatus, depending on the permeability of the geologic material. The initial leach solution is distilled water that has been slightly acidified (to pH 4.2) to match local precipitation chemistry. The leach solution and geologic material are allowed to remain in contact for 24 hours and the resulting leachate is analyzed for metals, metalloids, and general chemical parameters. The constituents analyzed included: pH, acidity (total), alkalinity (total), alkalinity (carbonate), alkalinity (hydroxide), bicarbonate, electrical conductivity, hardness, total dissolved solids (TDS), aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chloride, chromium (total), cobalt, copper, fluoride, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silica, silver, sodium, sulfate, thallium, uranium, vanadium, and zinc.

2.2.4 Whole Rock Chemical Analysis

Whole rock chemical analyses were conducted for the samples using two techniques: (1) strong acid digestion followed by analysis by inductively coupled plasma- mass spectrometry (ICP-MS) for a full suite of major ions and metals and (2) a lithium borate fusion followed by x-ray fluorescence (XRF) spectroscopy for major and minor oxide determinations. In addition, all of the Tier 1 samples were also

analyzed for the radioactive constituents gross alpha, radium 226, and radium 228; approximately 15 percent of the samples were also analyzed for gross beta.

The strong acids used in the digestion process correspond to a mixture of perchloric, nitric, hydrofluoric, and hydrochloric acids. The acid digestions are able to dissolve most minerals; however, the term "near-total" is used because, depending on the sample matrix, not all elements are quantitatively extracted (e.g., including rare earth elements and barium, tin, tantalum, titanium, tungsten, and zirconium). In contrast, fusion of the rock with lithium borate dissolves the entire rock which is presented to the XRF for total oxide analysis. However, because of the dilution of the rock in the lithium borate flux and the elevated detection limits of XRF analysis, trace metals are not reported with this method. Only the weight percents for the lithium borate/XRF fusion method were reported for the oxides of aluminum, barium, calcium, chromium, iron, potassium, magnesium, manganese, sodium, phosphorus, silicon, strontium, and titanium. While whole rock chemistry data cannot be used to define rates of metal leaching, they can be used for qualitative identification of which metals are present at elevated levels and therefore are potentially leachable and should be included in analytical determinations of leachate compositions.

2.3 Tier 2 Testing

2.3.1 Humidity Cell Testing

Based on the results of the Tier 1 testing, 54 samples were selected for humidity cell testing to determine the kinetics of the oxidation reaction and resultant leachate chemistry. Humidity cell tests are designed to accelerate the rates of natural weathering processes and quantify those rates under ideal laboratory conditions. In addition, HCTs are generally used to determine the probability that a rock type with uncertain ABA characteristics will produce acidic leachates. Rocks with ABA characteristics outside these limits (that is, either strongly negative or positive NNP values) can generally be expected to produce either acidic or alkaline leachates. Several rocks outside of the uncertain acid generation range were included in the HCTs to determine the oxidation rates and masses of leachable constituents for use in the predictive geochemical model of the block cave.

The HCT method employed was similar to that described in ASTM D5744-96 (1996); however, several different rock masses and water to rock ratios were used depending on rock type and sample availability (see Table 2). Briefly, between 1.5 kg and 20 kg of sample with a particle size ranging between 1.7 millimeter (0.066 inch; 10 mesh) and 6.35 millimeter (0.25 inch) were placed in a cylindrical column. The sample was initially saturated with deionized water and allowed to drain. Dry air was then circulated through the sample for three days followed by three more days of humid air (created by passage of an airstream through deionized water at 30 °C). On the seventh day, deionized water was added to the

samples, allowed to sit for one hour, and then drained. This water was analyzed immediately for pH, electrical conductivity, sulfate, iron (total), acidity (total), and alkalinity (total); these constituents were measured on a weekly basis throughout the duration of the testing program by Chemac Environmental Services. This water also was analyzed by ACZ Laboratories for a full suite of constituents on a weekly basis from week 0 through week 24 and on a monthly basis from week 24 through week 72. The constituents analyzed included: aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chloride, chromium (total), cobalt, copper, fluoride, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silica, silver, sodium, sulfate, thallium, uranium, vanadium, and zinc. A portion of these analytes (antimony, boron, chromium (total), mercury, silver, and vanadium) were analyzed at a reduced frequency beginning at week 16 because they were not detected on a consistent basis.

2.4 Grain Size Analyses

The grain size analysis method employed was based on ASTM D422-07 (2007). The test method includes quantitative determination of the particle size distribution with sieving, which can be subdivided into the percentage of gravel, sand, and fines (clay and silt). The distribution of particle sizes is used to develop a cumulative particle size distribution plot (i.e., gradation curve).

2.5 Saturated Column Testing

After completion of the HCTs, the rock in the HCTs were unloaded and inspected visually for mineral precipitates and staining and select HCTs were converted to the saturated flow through column tests. Rock removed from the HCTs contained minimal moisture. After inspection, the material was then homogenized (i.e., gently mixed, no crushing), which was intended to eliminate any preferential flow paths that may have formed during humidity cell testing, thereby re-exposing any “sealed off” areas. Homogenization was not meant to expose new rock surfaces that were not exposed during the HCTs. Prior to saturating the columns, a small sample split (roughly 50 to 250 grams) was removed from each column for mineralogical testing. Where possible, secondary precipitates were sampled disproportionally (e.g., high-graded) to facilitate their identification during mineralogical testing.

Rock that was loaded into the saturated column tests represented nearly all of the mass used in the original HCT columns. The original HCT columns were used to construct the saturated column tests. After homogenization, sampling, and repacking into the same column, the columns were then cut down to size to minimize the amount of head space above the rock material in the columns. The height ranged between 16.4 and 44.1 centimeters (6.5 and 17.4 inches). Similar to the bottom of the columns, the top of

the columns were loaded with clean quartz sand to further reduce head space and minimize the amount of fine material that could flow out the top of the column. The saturated test columns were then sealed to eliminate the potential for solution leakage and minimize the diffusion of oxygen into the columns. The flow rate through the columns was unique for each test, and was based upon maintaining the same water to rock proportion used in the HCTs. Test cell dimensions, flow rates, and pore volume data are summarized in Table 4. The water used for the saturated column tests was deionized water that was deoxygenated (initially subjected to a vacuum to reduce exposure to gaseous carbon dioxide and oxygen, then sparged with nitrogen while operating the columns) prior to column flooding. The influent water reservoir was also continuously monitored for its dissolved oxygen content to ensure that diffusion of atmospheric oxygen did not increase oxygen levels during testing.

Flow within the saturated columns was directed in the bottom and out the top of the columns with weekly sampling of the collected leachate. All columns were analyzed weekly for pH, electrical conductivity, sulfate, iron (total), acidity (total), and alkalinity (total); these constituents were measured on a weekly basis by Chemac Environmental Services throughout the duration of the testing program. The water also was analyzed by ACZ Laboratories for a full suite of constituents on a weekly basis from week 1 through week 6 and every other week thereafter until testing termination. The constituents analyzed included: aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chloride, chromium (total), cobalt, copper, fluoride, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silica, silver, sodium, sulfate, thallium, uranium, vanadium, and zinc.

2.6 Mineralogical Testing

As described above, a small sample split (roughly 50 to 250 grams) from each post-test HCT column was removed for mineralogical testing. Where possible, secondary precipitates were sampled disproportionally (e.g., high-graded) to facilitate their identification during mineralogical testing. Pre-test HCT samples were collected from material not originally added to the HCTs (samples archived by MWH) or from additional sample mass retrieved from core (samples analyzed by RCML).

2.6.1 Petrography

Petrography utilizes the principles of optical mineralogy to identify minerals present, encapsulation of minerals (e.g., pyrite or calcite in quartz), mineral morphology (e.g., euhedral, subheudral, framboidal), and mineral reaction rims (e.g., oxidation of pyrite). Light (regular or reflected) is transmitted through a thin section of rock using a polarizing petrographic microscope. A thin section represents a thin (0.03 millimeter) sliver of rock that is cut from the sample using a diamond saw and mounted onto a glass slide.

Thin sections were prepared at the Colorado School of Mines or at Resolution, in order to view and photograph samples.

2.6.2 X-Ray Diffraction

X-ray diffraction is an analytical method that is used to identify minerals contained in rocks. XRD measures the distance between plains of regularly repeating atoms in the crystalline structure (i.e., lattice) of a mineral. Samples are crushed to a fine powder and exposed to x-rays, which diffract off the mineral lattice toward a detector. Each mineral has a unique crystalline structure, and therefore, a distinct x-ray pattern that can be identified. However, amorphous solid materials (i.e., glass, poorly crystalline minerals, etc.) do not have a regularly repeating crystalline structure and as such produce XRD results that are ambiguous or impossible to interpret. MWH personnel, using facilities at the Colorado School of Mines, analyzed samples before and after humidity cell testing by XRD.

2.6.3 Scanning Electron Microscopy

Scanning electron microscope is used to obtain high-resolution, three-dimensional images of mineral grains or rock samples on a small scale (micron to sub-micron level). SEM can also provide semi-quantitative information regarding elements that are present on a mineral surface. Thin sections prepared for petrographic study can be analyzed with the SEM. The thin section or mineral surface is shot with a focused, high-energy beam of electrons. The interaction of the electrons with the sample produces various forms of radiation, most importantly, secondary electrons (which produce the SEM image) and characteristic X-rays, which provide semi-quantitative chemical analyses (energy dispersive X-ray spectrum or EDX).

Table 1. Summary of rock lithologies and alteration types as well as the corresponding number of samples selected for Tier 1 testing (not including duplicates).

Lithology Type		
Code	**Unit**	**Count**
Tal	Tertiary Apache Leap Tuff (Ignimbrite)	7
Tw	Tertiary Whitetail Conglomerate	11
Kvs	Cretaceous volcanics & sediments (undifferentiated)	101
Kqs	Cretaceous quartz-rich sediments	1
QEP	Quartz eye porphyry; rhyodacite porphyry	37
FP/LP	Felsic porphyry; latite porphyry	3
Dm	Devonian Martin limestone (skarn)	21
Andesite	Andesite	1
Diabase	Diabase	22
Qzite	Quartzite	17
Breccia/Hbx	Heterolithic Breccia	3
Fault	Fault	2
TOTAL		226

Alteration Type		
Code	**Unit**	**Count**
AA	Advanced Argillic	19
ARG	Argillic	1
HFLRET	Retrograde Hornfels	5
PHY	Phyllic	111
POT	Potassic	31
PRO	Propylitic	16
SA	Supergene argillic	7
SIL	Siliceous	1
SKN/SKRET	Skarn/Retrograde Skarn	16
UNALT	Unaltered	18
ZEO	Zeolite	1
TOTAL		226

Table 2. Summary of samples selected for Tier 2 testing.

Hole ID	Depth Interval (m)	Test ID	Mass (g)	Water:Rock Proportion	Grain Size	Lithology	Alteration	1% Copper Shell	Weeks Tested
RES-001C	1639.00-1642.00	1S	10000	1:3	fine (-10mesh)	Kvs	PRO	above	24
	1745.00-1748.00	2	10000	1:3	fine (-10mesh)	Kvs	POT	above	51
	1771.75-1791.40	3	20000	1:5	coarse (-1/2")	Dm	SKRET	above	24
	1855.00-1858.00	4S	5000	1:2.78	very fine (-10mesh)	Dm	SKN	above	16
	1855.00-1858.00 (dup)	5	5000	1:2.78	very fine (-10mesh)	Dm	SKN	above	16
	1873.00-1876.00	6	8000	1:3	fine (-10mesh)	Dm	HFLRET	below	51
	2041.00-2044.00	7	1500	1:1.5	fine (-10mesh)	Diab	POT	below	24
	2041.00-2044.00 (dup)	8	8000	1:3	fine (-10mesh)	Diab	POT	below	24
RES-002A	888.00-891.00	9S	8000	1:3	very fine (-10mesh)	Kvs	PHY	above	16
	1154.00-1156.00	10S	5000	1:2.78	very fine (-10mesh)	Kvs	PHY	above	16
	1414.60-1417.00	11	5000	1:2.78	fine (-10mesh)	QEP	PHY	above	24
	1454.00-1457.00	12	5000	1:2.78	fine (-10mesh)	Kvs	PHY	below	74
	1454.00-1457.00 (dup)	13	5000	1:2.78	fine (-10mesh)	Kvs	PHY	below	24
	1927.00-1930.00	14	10000	1:3	fine (-10mesh)	Diab	POT	below	51
RES-005I	1317.28-1320.28	15	12000	1:3	coarse (-1/2")	Tw	UNALT	above	16
	1428.18-1431.18	16S	4000	1:2	very fine (-10mesh)	Kvs	AA	above	16
	1428.18-1431.18 (dup)	17S	4000	1:2	very fine (-10mesh)	Kvs	AA	above	16
	1499.00-1502.00	18S	4000	1:2	very fine (-10mesh)	Kvs	PHY	above	16
	1586.46-1589.46	19S	4000	1:2	very fine (-10mesh)	QEP	PHY	above	16
	1632.56-1635.56	20S	5000	1:2.78	very fine (-10mesh)	Kvs	PHY	above	24
	1652.00-1654.93	21	2000	1:1.5	fine (-10mesh)	QEP	PHY	above	51
	1654.93-1659.80	22S	4000	1:2	very fine (-10mesh)	QEP	PHY	below	24
	1759.23-1761.23	23	1500	1:1.5	very fine (-10mesh)	QEP	PHY	below	51
	1892.81-1895.00	24	1500	1:1.5	very fine (-10mesh)	Qzite	PHY	below	24
	1917.29-1920.90	25S	2000	1:1.5	fine (-10mesh)	Diab	POT	below	24
RES-005J	1660.40-1686.47	26	20000	1:5	coarse (-1/2")	QEP	PHY	below	74

Table 2. Summary of samples selected for Tier 2 testing (continued).

Hole ID	Depth Interval (m)	Test ID	Mass (g)	Water:Rock Proportion	Grain Size	Lithology	Alteration	1% Copper Shell	Weeks Tested
RES-006D	1750.40-1753.40	27	5000	1:2.78	fine (-10mesh)	Kvs	PHY	above	24
	1898.21-1901.09	28	5000	1:2.78	very fine (-10mesh)	Qzite	PHY	above	51
	1952.56-1954.83	29S	2000	1:1.5	very fine (-10mesh)	Qzite	PHY	above	24
	1954.83-1972.00	30	20000	1:5	coarse (-1/2")	Qzite	ZEO	above	51
	1980.60-1983.60	31S	4000	1:2	fine (-10mesh)	Qzite	PHY	below	16
	2091.13-2094.13	32S	5000	1:2.78	fine (-10mesh)	Diab	POT	below	24
RES-008A	1597-1600	33	10000	1:3	coarse (-3/8")	Kvs	HFL	outside	24
	1717-1720	34	10000	1:3	coarse (-3/8")	Kvs	PRO	outside	63
	1844.1-1846.6	35	8000	1:3	coarse (-3/8")	Skn	PHY	outside	51
	1979.95-1982.94	36	10000	1:3	coarse (-3/8")	Qzite	SIL	outside	51
	2053.81-2056.81	37	5000	1:2.78	coarse (-3/8")	Diab	PHY	outside	51
RES-009	278.90-281.09	38	12000	1:3	coarse (-1/2")	Tal	UNALT	above	16
	645.59-647.52	39	11500	1:3	coarse (-1/2")	Tw	UNALT	above	16
	804.84-807.00	40	5000	1:2.78	coarse (-1/2")	Tw	UNALT	above	16
	804.84-807.00 (dup)	41	5000	1:2.78	coarse (-1/2")	Tw	UNALT	above	16
	994.67-997.67	42	7000	1:3	fine (-10mesh)	Kvs	SA	above	16
RES-009E	1351.03-1354.03	43	10000	1:3	fine (-10mesh)	Kvs	PHY	above	51
	1510.74-1527.19	44	20000	1:5	coarse (-1/2")	Kvs	PHY	above	63
	1510.74-1527.19 (dup)	45	5000	1:2.78	coarse (-1/2")	Kvs	PHY	above	24
	1510.74-1527.19 (trip)	46	2000	1:1.5	coarse (-1/2")	Kvs	PHY	above	24
	1597.32-1599.88	47S	4000	1:2	fine (-10mesh)	Kvs	PHY	above	24
	1634.46-1637.47	48S	4000	1:2	very fine (-10mesh)	Kvs	PHY	below	16
	1739.63-1742.63	49S	4000	1:2	very fine (-10mesh)	Qzite	AA	below	24
	1829.95-1832.48	50	1500	1:1.5	very fine (-10mesh)	Dm	SKRET	below	24
	1867.87-1884.35	51	20000	1:5	coarse (-1/2")	Dm	SKRET	below	51
	1899.00-1901.88	52S	2000	1:1.5	very fine (-10mesh)	Dm	SKRET	below	24
	1984.74-1987.74	53	4000	1:2	very fine (-10mesh)	Qzite	POT	below	24
	2056.38-2075.00	54	20000	1:5	coarse (-1/2")	Diab	POT	below	74

Note: A Test ID with a "S" indicates that the column was converted to a shoebox during humidity cell testing. Lithology types include: Kvs = Cretaceous volcanic & sediments (undifferentiated); QEP = quartz eye porphyry; Diab = diabase; Qzite = quartzite; Tal = Tertiary Apache Leap Tuff (Ignimbrite); Tw = Tertiary Whitetail Conglomerate; Dm = Devonian Martin limestone (skarn). Alteration types include: POT = Potassic; PHY = Phyllic; UNALT = unaltered; AA = Advanced Argillic; SKRET = Retrograde Skarn.

Table 3. Summary of samples selected for saturated flow through column testing.

Hole ID	Depth Interval (m)	Test ID	Mass (g)	Grain Size	Lithology	Alteration	1% Copper Shell	HCT Weeks Tested
RES-001C	1745.00-1748.00	2	10000	fine (-10mesh)	Kvs	POT	above	51
RES-002A	1414.60-1417.00	11	5000	fine (-10mesh)	QEP	PHY	above	24
	1454.00-1457.00	12	5000	fine (-10mesh)	Kvs	PHY	below	74
	1927.00-1930.00	14	10000	fine (-10mesh)	Diab	POT	below	51
RES-005I	1652.00-1654.93	21	2000	fine (-10mesh)	QEP	PHY	above	51
RES-006D	1898.21-1901.09	28	5000	very fine (-10mesh)	Qzite	PHY	above	51
RES-008A	1717-1720	34	10000	coarse (-3/8")	Kvs	PRO	outside	63
RES-009	278.90-281.09	38	12000	coarse (-1/2")	Tal	UNALT	above	16
	645.59-647.52	39	11500	coarse (-1/2")	Tw	UNALT	above	16
RES-009E	1510.74-1527.19	44	20000	coarse (-1/2")	Kvs	PHY	above	63
	1739.63-1742.63	49S	4000	very fine (-10mesh)	Qzite	AA	below	24
	1829.95-1832.48	50	1500	very fine (-10mesh)	Dm	SKRET	below	24
	1899.00-1901.88	52S	2000	very fine (-10mesh)	Dm	SKRET	below	24
	2056.38-2075.00	54	20000	coarse (-1/2")	Diab	POT	below	74

Notes: A Test ID with a "s" indicates that the column was converted to a shoebox during humidity cell testing. Saturated column (SC) tests are designated in the database as SC (e.g., Test 52S is referred to as SC52). Lithology types include: Kvs = Cretaceous volcanic & sediments (undifferentiated); QEP = quartz eye porphyry; Diab = diabase; Qzite = quartzite; Tal = Tertiary Apache Leap Tuff (Ignimbrite); Tw = Tertiary Whitetail Conglomerate; Dm = Devonian Martin limestone (skarn). Alteration types include: POT = Potassic; PHY = Phyllic; UNALT = unaltered; AA = Advanced Argillic; SKRET = Retrograde Skarn.

Table 4. Summary of test set-up and pore volume data for samples characterized with saturated flow through column testing.

Test ID	Cell Diameter (cm)	Height of Rock Column (cm)	Leach Solution (mL)	Flow Rate (mL/hr)	Time Pump is on (days)	Dry Bulk Density (g/cm^3)	Porosity (-)	One Pore Volume (mL)	Pore Volumes Flushed (-)	SCT Weeks Tested
SC2	16.2	24.3	3333	19.84	7.00	2.0	0.33	1667	22	12
SC11	10.2	30.8	1800	15.00	5.00	2.0	0.33	833	25	12
SC12	10.2	30.8	1800	15.00	5.00	2.0	0.33	833	25	12
SC14	16.2	24.3	3333	19.84	7.00	2.0	0.33	1667	23	12
SC21	7.6	21.9	1500	15.00	4.17	2.0	0.33	333	53	12
SC28	10.2	30.8	1800	15.00	5.00	2.0	0.33	833	24	12
SC34	16.2	22.1	3333	19.84	7.00	2.2	0.27	1212	30	12
SC38	16.2	26.5	4000	23.81	7.00	2.2	0.27	1455	30	12
SC39	16.2	25.4	3833	22.82	7.00	2.2	0.27	1394	31	12
SC44	16.2	44.1	4000	23.81	7.00	2.2	0.27	2424	18	12
SC49	10.2	24.7	1800	15.00	5.00	2.0	0.33	667	31	12
SC50	7.6	16.4	1500	15.00	4.17	2.0	0.33	250	72	12
SC52	7.6	21.9	1500	15.00	4.17	2.0	0.33	333	52	12
SC54	16.2	44.1	4000	23.81	7.00	2.2	0.27	2424	18	12

Notes: The dry bulk density and porosity were calculated based on test cell dimensions, mass of material, and assumption that density of solids was 3.0 g/cm^3. Dry bulk density is equal to the mass of rock divided by total cell volume. Porosity is equal to one minus the ratio between the dry bulk density and density of solids. The pore volume was calculated by multiplying the total cell volume by the porosity. The number of pore volumes flushed was calculated from the total volume of leachate collected divided by the quantity of one pore volume.

3.0 RESULTS

3.1 Tier 1 Testing

3.1.1 Acid Base Accounting

Results of the Tier 1 testing showed that the majority of the rocks tested had the potential to generate acidic conditions. All of the ABA results are tabulated in Appendix A.

Sixty-one percent of the samples had a NNP that are indicative of rocks that are potentially-acid generating. Approximately 30 percent of the samples had an uncertain potential to generate acid and approximately nine percent of the samples would be classified as not-potentially-acid generating.

Similar to the NNP evaluation, using the NPR criteria, the majority of rocks tested were classified as potentially-acid generating; however, the fractions with uncertain or not-potentially-acid generating classifications were slightly different than the distributions using NNP classification criteria. Based on the NPR criteria, 68 percent of the samples tested indicated that they were potentially-acid generating with a NPR less than 1. Approximately 13 percent of the samples had an uncertain potential to generate acid ($1 < NPR < 3$) and approximately 19 percent of the samples would be classified as not potentially acid generating with NPR values greater than 3. Figure 1 shows the distribution of acid generating and acid neutralizing rocks in a plot that graphically represents the NPR.

Approximately 27 percent of the Tier 1 samples had sulfide-sulfur concentrations below 0.3 percent, and could be classified as not potentially acid generating because they do not have sufficient sulfide-sulfur generally considered capable of sustaining acid generation (Price, 1997; Soregaroli and Lawrence, 1998). When these samples were removed from consideration (i.e., only considering the rocks with sufficient sulfide-sulfur to sustain acid generation), approximately 90 percent of the rocks were potentially acid generating, five percent were uncertain, and five percent were not potentially acid generating, regardless of the criteria applied.

The Tier 2 samples selected for humidity cell testing were representative of the Tier 1 ABA sample results, and weighted toward the abundance of the rock types expected to occur within and above the ore body. The ABA results for Tier 2 samples showed a similar distribution of rocks classified as potentially-acid generating, uncertain, and not potentially acid generating as the larger Tier 1 results. An NPR evaluation of the Tier 2 data showed 72 percent of the samples were potentially acid generating, six percent were uncertain, and 21 percent were not potentially acid generating; whereas, the NNP evaluation showed 66 percent of the samples were potentially-acid generating, 17 percent were uncertain, and 17

percent were not-potentially-acid generating. Figure 1 shows the distribution of acid generating and acid neutralizing potentials for Tier 2 samples in a plot that graphically represents the NPR.

3.1.2 Net Acid Generation Testing

As described in Section 2.2.2, NAG test results provide rapid analysis of whether a particular rock is likely to generate acid, but does not provide an indication of the neutralizing potential of that rock. The final pH measurement of the NAG tests indicated that approximately 60 percent of the rocks were potentially acid generating (pH less than 4.5) and 40 percent were not-potentially-acid generating (pH greater than 4.5). All of the NAG results are tabulated in Appendix B.

Because NAG tests do not provide a measure of the neutralizing potential of the rocks, it is helpful to examine the NAG results in conjunction with the ABA results. Figure 2 is a plot of the NNP results as a function of the NAG results. The plot can be used as further confirmation that the distribution of rocks identified as potentially-acid generating is similar between testing procedures. Using both NAG and NNP classifications 57 percent of the rocks would be classified as potentially-acid generating, while nine percent of the rocks would be classified as not-potentially-acid generating. The percentage of rocks that fall under the uncertain range (30 percent) is solely based on the NNP results, because there is no uncertain range defined by the NAG criteria. Figure 3 compares the ore and non-ore samples in a plot of NNP results as a function of NAG results. Using both NAG and NNP classifications, 85 percent of the ore samples and 39 percent of the non-ore samples would be classified as potentially-acid generating.

The arithmetic means of the NAG pH and NNP results for the different rock types are compared in Figure 4 with error bars showing the one standard deviation of the sample results. Based on NAG and NNP classifications, the following rock types are either considered non-potentially acid generating by both criteria or potentially acid generating only by the NNP criteria: andesite, Tertiary Whitetail conglomerate, Devonian Martin limestone, and the Tertiary Apache Leap tuff. All other rock types can be classified as potentially-acid generating by both criteria.

The resulting leachate of the NAG testing following complete oxidation of the sulfide minerals was also analyzed for a full suite of typical major ion and metals and is included in Appendix B. It should be noted that several of the constituents (i.e., beryllium, chloride, fluoride, and mercury) we analyzed using detection limits that were greater than the corresponding drinking water standard.

3.1.3 Synthetic Precipitation Leaching Procedure

Leachates generated from the SPLP tests indicate the constituents that were easily leachable from a given sample. All of the SPLP results are tabulated in Appendix C. Compared to U.S. drinking water

standards, several samples had elevated levels of aluminum and a lesser number of samples had elevated concentrations of iron, manganese, chloride, fluoride, and sulfate. These elevated results could be the result of small amounts of oxidation that may have occurred in the core between collection of the core and the SPLP analysis, or from naturally occurring soluble minerals within the rock.

3.1.4 Whole Rock Chemical Analysis

The typical approach for evaluating whole rock analytical data is to compare them to crustal averages. All of the whole rock results are tabulated in Appendix D, while XRF results are tabulated in Appendix E. A review of the data indicates that the samples are elevated in most metals and metalloids (e.g., antimony, arsenic, bismuth, copper, lead, molybdenum, potassium, selenium, silver, tellurium, tin, and zinc) relative to ranges normally found in average crustal rocks. These enrichments in metal concentrations are to be expected for rocks associated with an ore deposit. While whole rock chemistry data cannot be used to define rates of metal leaching, they can be used for qualitative identification of which metals are present at elevated levels (e.g., arsenic, selenium, etc.) and therefore are potentially leachable.

3.2 Tier 2 Testing

3.2.1 Humidity Cell Testing

As described in Section 2.3.1, HCTs were used to evaluate whether samples with an uncertain potential to generate acid (as measured in ABA testing) will produce acidic leachate under accelerated laboratory conditions. In addition, the HCTs were used to determine sulfide oxidation rates and masses of leachable constituents of the potentially acid generating and not-potentially acid generating rocks for use in the predictive geochemical model of the block cave. A full compilation of the analytical results for the HCTs is presented in Appendix F.

HCT results with respect to the range of pH values and sulfate concentrations of the column effluents are summarized in Table 5. Table 5 also includes the ABA results for each sample. As expected, most of the samples with strongly negative NNP values produced acidic leachates; however, skarns and dolomites tended to produce circumneutral pH values regardless of their NNP values. Samples with NNP values that had uncertain potential to generate acid typically did not generate acidic leachate.

3.3 Grain Size Analyses

Grain size analysis was performed by sieving and the clay fraction was not determined (no hydrometer testing). Grain size data and gradation curves are plotted in Appendix G.

3.4 Saturated Column Testing

The SCT results provide information regarding the quality of water that would be expected to occur within reflooded portions of the block cave. All of the SCT results are tabulated in Appendix H. The number of pore volumes flushed during testing is summarized in Table 4. On average, approximately three pore volumes were flushed during each week of testing (minimum of one pore volume and maximum of six pore volumes per week).

The leachate chemistries (pH, alkalinity (total), acidity (total), and sulfate) for the final week of humidity cell testing, first week of saturated column testing, and final week of saturated column testing are summarized in Table 6. The initial solute concentrations of the SCT leachate (week 1) were much higher than the final HCT leachate concentrations. This difference is attributed to evapoconcentration of pore water after the HCTs were terminated and sat dormant in the laboratory. However, despite the temporary, large increase in concentrations, continued flow under saturated conditions resulted in rapid rinse-out of metals. Typically, non-detect concentrations were reported after a few weeks of testing.

For SCTs with acidic pH, acidity showed a rapid rinse-out (alkalinity generally reported at level of detection). While for SCTs with alkaline pH, alkalinity showed a less rapid rinse-out (acidity generally reported at level of detection). Samples with week 1 acidic pHs (<5 s.u.) in the leachate increased between 0.5 and 1.7 pH units during testing, but still remained acidic at week 12. Samples with alkaline pHs remained more or less stable. The major cations (Ca, K, Na, Mg, and Si) typically remained detectable but at lower concentrations than during week 1 and week 2. Sulfate had a bimodal response: some columns showed rapid rinse-out reaching concentrations around <10 to 90 mg/L, while other columns showed more or less steady concentrations around 1,400 mg/L throughout testing. Differences in rinse-out response for sulfate could be associated with rapid dissolution of soluble secondary iron-sulfate (sulfosalt) precipitates, or slower transition toward equilibrium conditions with respect to gypsum.

Tests were terminated after week 12 because of the rapid decrease in the concentration of metals, acidity, and sulfate. For acidic columns, dissolution of less soluble secondary precipitates was anticipated to occur at a slow rate and was therefore not evaluated as a termination criterion. Consistent with the timeframes required for closure modeling, the number of pore volumes flushed through the SCTs in 12 weeks would take thousands of years to flush the equivalent number of pore volumes through the block cave.

3.5 Mineralogical Testing

3.5.1 Petrography

A comparison of samples collected pre- and post-humidity cell testing indicates that the starting and final mineralogy remained largely unchanged. Petrographic photographs are presented in Appendix I. Petrographic examination revealed occurrences of stained silicate grains adjacent to partially oxidizing sulfide grains. However, no mineral reaction rims were observed in contact with the sulfide mineral grains. Thin sections showed that typically 30 to 50 percent of the sulfides (pyrite) were encapsulated in silicates. Encapsulation of pyrite does not mean that the minerals are completely unavailable to oxidation, but because oxygen has to diffuse through the silicate and reaction products have to diffuse out, the oxidation of the sulfides is many orders of magnitude slower than with exposed pyrite (i.e., oxidation of pyrite may be slow enough such that the mine could be reflooded before such oxidation occurs).

3.5.2 X-ray Diffraction

A comparison of samples collected pre- and post-humidity cell testing indicates that the starting and final mineralogy remained largely unchanged with the occasional inclusion of ferrihydrite, gypsum, and some clay minerals in the post-test samples. The results of the XRD analyses indicate that the secondary mineral phases that precipitated during humidity cell testing generally could not be detected. The lack of detection, despite some sampling procedures that included high-grading of mineral precipitates, can be attributed to either: (1) the low modal concentrations (<1 percent) and/or (2) the phases observed visually are amorphous (poorly crystalline) solids which are difficult to detect with XRD. Since minimal secondary precipitates were observed, the XRD results also suggest that HCTs operated as designed by rinsing out nearly all of the reaction products on a weekly basis. The combined mineralogic data resulting from petrographic and XRD observations for selected pre- and post- HCT samples are presented in Appendices J and K.

3.5.3 Scanning Electron Microscopy

Similar to the petrographic results, the results of SEM showed iron staining adjacent to oxidizing pyrite grains, and based on EDX spectra the precipitate is either iron sulfate or jarosite. SEM also showed that the vast majority of the sulfide grains had no reaction rims or visible oxidation rinds. SEM and thin section analyses showed that pyrite grains were subheudral to subrounded, and are therefore potentially less reactive because the smaller surface area to volume ratio relative to a framboidal texture which would be anticipated to oxidize more quickly. SEM photographs are presented in Appendix L.

Table 5. Summary of acid base accounting data and selected chemical parameters from humidity cell testing.

Hole ID	Depth Interval (m)	Test ID	ANP	AGP	NNP	Min pH	Max pH	Final pH	Min Sulfate	Max Sulfate
			($T\ CaCO_3/kT$)			(s.u.)			(mg/L)	
RES-001C	1639.00-1642.00	1s	40	52	-12	6.83	8.81	7.71	10	1070
	1745.00-1748.00	2	21	34	-13	6.76	8.02	7.05	230	1860
	1771.75-1791.40	3	174	18	156	7.23	7.84	7.68	234	1150
	1855.00-1858.00	4s	161	26	135	7.27	7.99	7.43	80	2390
	1855.00-1858.00 (dup)	5	161	26	135	7.05	8.21	7.07	103	2380
	1873.00-1876.00	6	249	68	181	7.16	8.44	7.89	14	1720
	2041.00-2044.00	7	45	112	-67	7	7.98	7.78	162	1680
	2041.00-2044.00 (dup)	8	45	112	-67	7.31	7.94	7.78	359	2210
RES-002A	888.00-891.00	9s	1	2	-1	6.59	8.19	6.59	<5	24
	1154.00-1156.00	10s	1	91	-90	4.68	5.41	5.07	<10	1310
	1414.60-1417.00	11	<1	205	-204	3.9	4.69	3.94	68	1080
	1454.00-1457.00	12	1	275	-274	4.55	7.61	4.95	<5	1160
	1454.00-1457.00 (dup)	13	1	275	-274	5.14	7.33	6.59	<5	808
	1927.00-1930.00	14	60	81	-21	5.53	7.44	5.77	807	1870
RES-005I	1317.28-1320.28	15	305	<1	304	7.71	9.01	8.11	24	236
	1428.18-1431.18	16s	3	1	2	6.89	7.97	7.17	<5	406
	1428.18-1431.18 (dup)	17s	3	1	2	5.64	8.04	7.23	<5	376
	1499.00-1502.00	18s	3	2	1	6.61	8.16	6.61	<5	44
	1586.46-1589.46	19s	3	1	2	4.72	7.86	6.36	<5	166
	1632.56-1635.56	20s	<1	131	-130	4.64	6.7	4.92	17	1000
	1652.00-1654.93	21	2	146	-144	3.52	5.86	3.63	14	436
	1654.93-1659.80	22s	<1	178	-177	5.64	7.46	5.8	<10	489
	1759.23-1761.23	23	5	152	-147	3.66	5.01	3.68	55	997
	1892.81-1895.00	24	2	88	-86	4.1	5.27	4.17	11	832
	1917.29-1920.90	25s	17	110	-93	4.78	6.43	4.82	<10	1020
RES-005J	1660.40-1686.47	26	1	162	-161	5.55	7.72	5.73	<5	91

Table 5. Summary of acid base accounting data and selected chemical parameters from humidity cell testing (continued).

Hole ID	Depth Interval (m)	Test ID	ANP	AGP	NNP	Min pH	Max pH	Final pH	Min Sulfate	Max Sulfate
			(T $CaCO_3$/kT)			(s.u.)			(mg/L)	
RES-006D	1750.40-1753.40	27	<1	331	-330	3.34	4.38	3.81	63	4610
	1898.21-1901.09	28	1	176	-175	3.3	5.11	3.76	37	3480
	1952.56-1954.83	29s	1	54	-53	4.02	5.47	4.19	<10	240
	1954.83-1972.00	30	1	99	-98	4.6	6.51	4.6	80	290
	1980.60-1983.60	31s	<1	397	-396	3.59	4.16	3.73	45	3330
	2091.13-2094.13	32s	31	79	-48	6.35	7.93	6.36	<10	2970
RES-008A	1597-1600	33	209	0.3	209	7.84	8.72	8.14	<5	40
	1717-1720	34	16	135	-119	6.63	8.13	7.10	20.00	267
	1844.1-1846.6	35	56	307.5	-252	7.25	8.23	7.85	46.00	769
	1979.95-1982.94	36	69	696.9	-628	7.0	8.0	7.6	142.0	664
	2053.81-2056.81	37	24	371.9	-348	3.3	8.0	7.0	14.0	1870
RES-009	278.90-281.09	38	12	<1	11	8.07	9.08	8.07	<5	<10
	645.59-647.52	39	91	<1	90	8.72	9.53	8.72	<5	27
	804.84-807.00	40	128	<1	127	7.38	8.64	7.75	173	787
	804.84-807.00 (dup)	41	128	<1	127	6.82	8.26	7.58	159	878
	994.67-997.67	42	17	<1	16	6.94	8.94	6.94	<5	2260
RES-009E	1351.03-1354.03	43	1	151	-150	3.59	4.94	3.59	63	2190
	1510.74-1527.19	44	2	309	-307	2.56	4.56	2.7	244	1250
	1510.74-1527.19 (dup)	45	2	309	-307	3.61	4.47	3.64	94	597
	1510.74-1527.19 (trip)	46	2	309	-307	4	4.65	4.11	23	139
	1597.32-1599.88	47s	<1	453	-452	3.43	3.87	3.43	96	4330
	1634.46-1637.47	48s	2	218	-216	4.11	5.04	4.13	45	2250
	1739.63-1742.63	49s	4	76	-72	5.06	4.02	4.54	31	1150
	1829.95-1832.48	50	28	240	-212	4.11	4.63	4.19	318	3450
	1867.87-1884.35	51	396	227	169	7.42	8.04	7.63	172	601
	1899.00-1901.88	52s	85	215	-130	6.87	8.35	7.22	63	2250
	1984.74-1987.74	53	9	76	-67	4.19	5.89	5.37	626	2090
	2056.38-2075.00	54	21	68	-47	5.45	7.64	6.16	603	1120

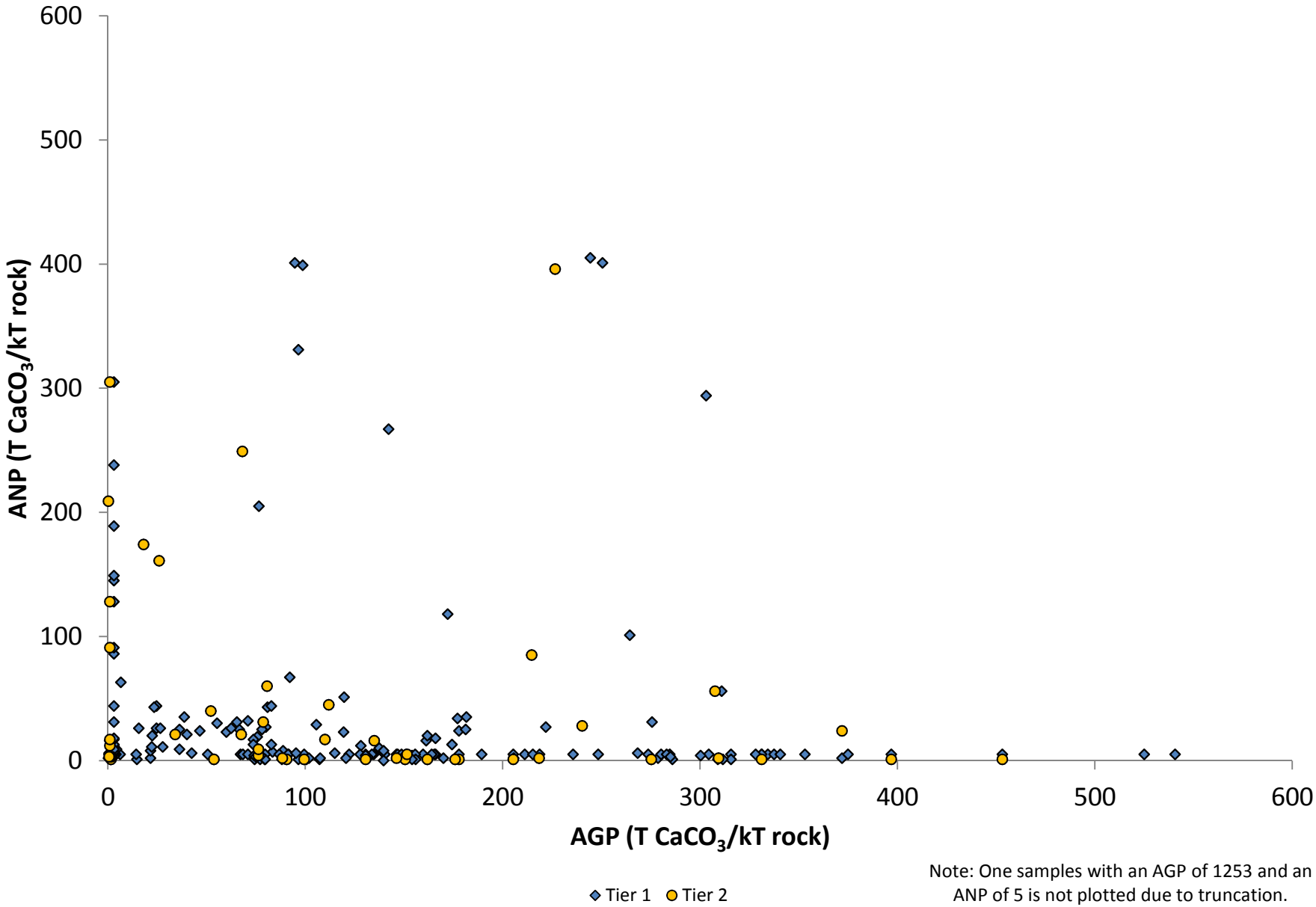
Note: A Test ID with a "s" indicates that the column was converted to a shoebox during humidity cell testing. AGP calculated from total-sulfur minus sulfate-sulfur.

Table 6. Summary of leachate chemistry (pH, alkalinity, acidity, and sulfate) for the final week of humidity cell testing, first week of saturated column testing, and final week of saturated column testing.

Test ID	HCT Final Week	SCT Week 1	SCT Week 12	HCT Final Week	SCT Week 1	SCT Week 12	HCT Final Week	SCT Week 1	SCT Week 12	HCT Final Week	SCT Week 1	SCT Week 12
	pH			Total Alkalinity			Total Acidity			Sulfate		
	(s.u.)			(mg/L as $CaCO_3$)			(mg/L as $CaCO_3$)			(mg/L)		
SC2	7.05	7.18	6.77	16	29	11.6	<5	<5	<5	615	1470	1020
SC11	3.74	3.09	3.64	<5	<5	<5	137	5183	66	158	6750	77
SC12	4.92	4.58	5.06	<5	<5	<5	329	2190	71	376	3310	85
SC14	5.77	5.03	5.56	<5	<5	<5	65	411	15	807	1750	1580
SC21	3.63	3.08	4.46	<5	<5	<5	108	1544	9	105	1530	<10
SC28	3.76	2.94	4.61	<5	<5	<5	237	7280	27	225	11000	20
SC34	7.10	7.44	7.55	8	51	26	<5	<5	<5	33	299	<10
SC38	8.58	7.95	8.02	23	86	23	<5	<5	<5	<10	10	<10
SC39	8.78	8.34	8.86	57	148	48	<5	<5	<5	<10	151	<10
SC44	2.7	2.43	3.80	<5	<5	<5	482	2180	60	567	2790	63
SC49	4.57	3.17	4.09	<5	<5	<5	49	14980	40	50	17400	34
SC50	4.21	3.81	4.72	<5	<5	<5	345	1750	33	496	2660	49
SC52	7.32	7.57	7.79	14	130	42	<5	<5	<5	77	1340	10
SC54	6.30	6.37	7.53	<5	12	35	10	28	<5	603	1600	1350

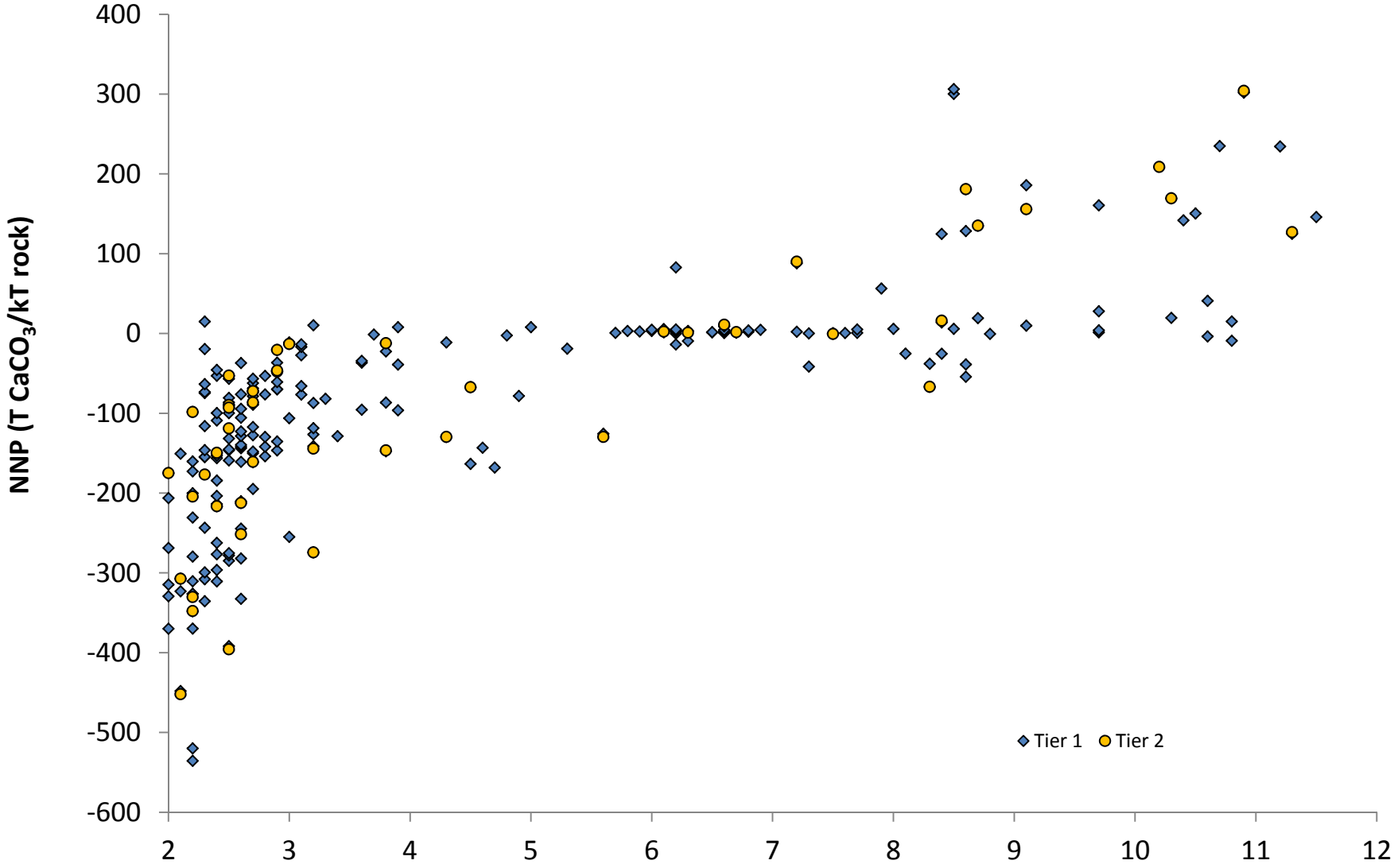
Note: A week 1 water sample was not collected in Test SC14 due to insufficient volume; week 2 data are presented.

Figure 1. Acid generation potential (AGP) versus acid neutralization potential (ANP)



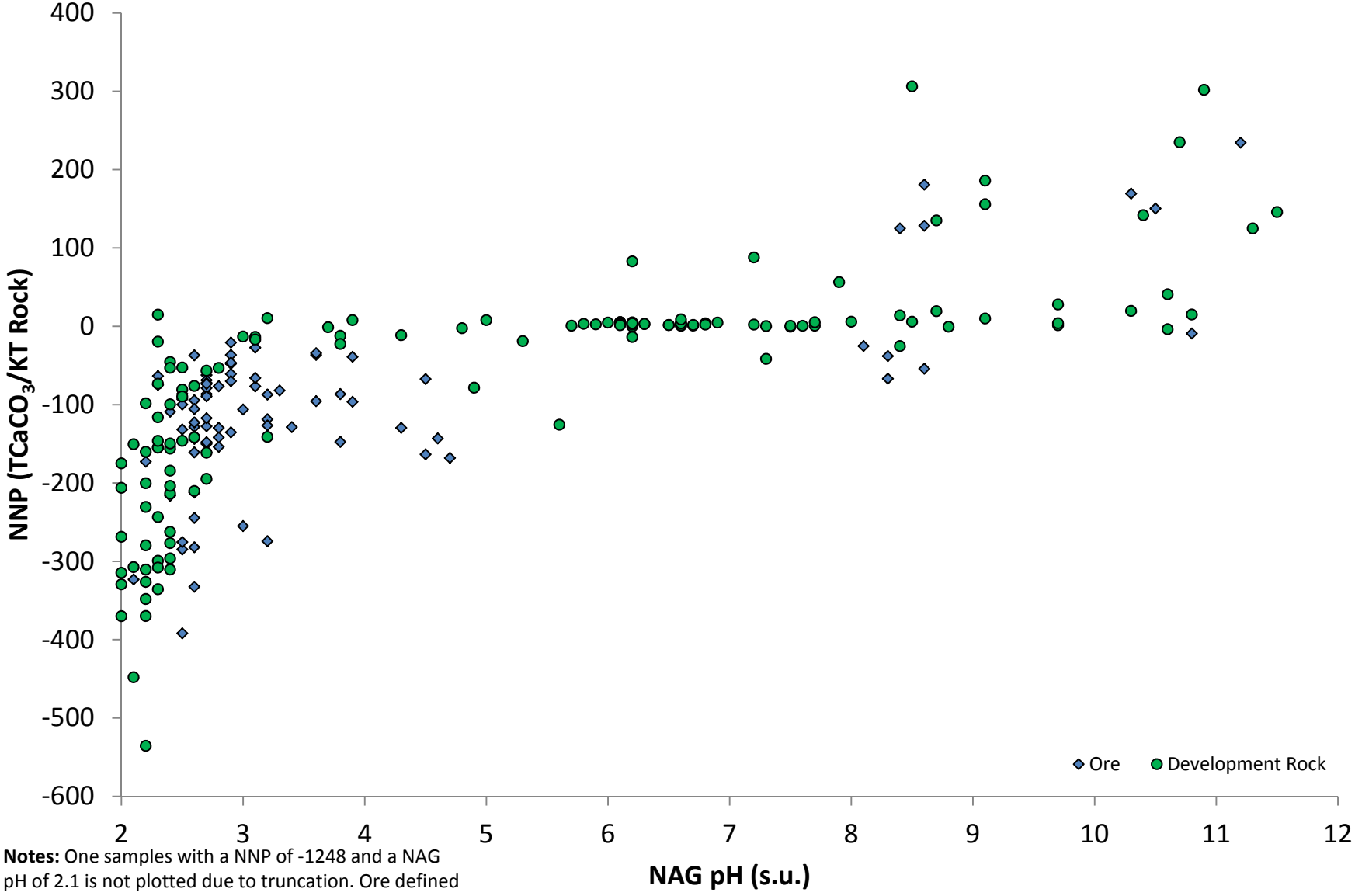
Note: One samples with an AGP of 1253 and an ANP of 5 is not plotted due to truncation.

Figure 2. Net acid generation (NAG) solution pH after oxidation versus net neutralization potential (NNP).



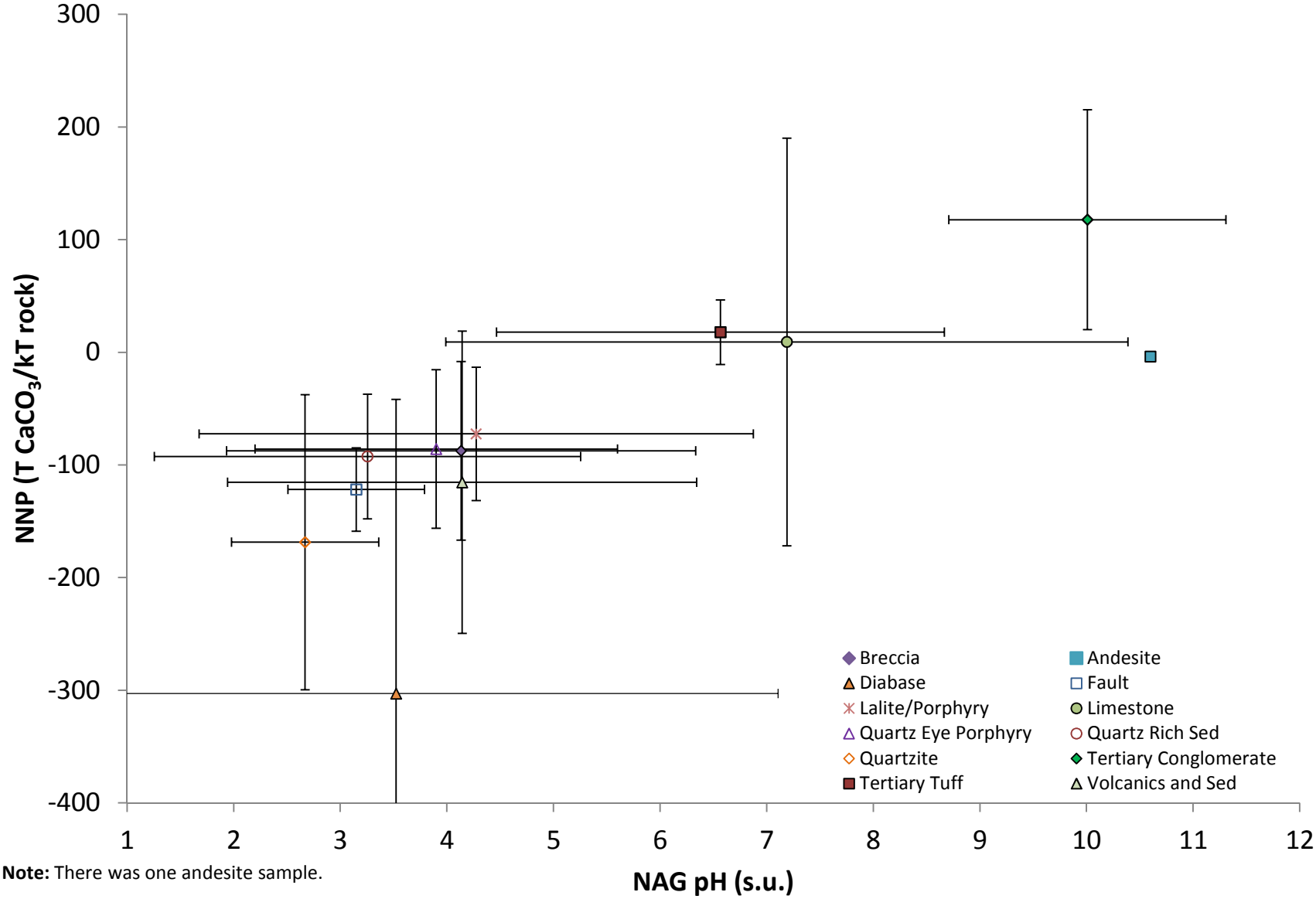
Note: One samples with a NNP of -1248 and a NAG pH of 2.1 is not plotted due to truncation.

Figure 3. Net acid generation (NAG) pH versus net neutralization potential (NNP) for ore and development rock.



Notes: One samples with a NNP of -1248 and a NAG pH of 2.1 is not plotted due to truncation. Ore defined as material located within the 1% copper shell.

Figure 4. Average net acid generation (NAG) pH versus average net neutralization potential (NNP) for each rock type.



Note: There was one andesite sample.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

The following quality assurance items were reviewed as part of the data verification and compared with acceptance criteria documented in the project quality assurance project plan (QAPP) (MWH, 2008) and based on the Arizona Department of Health Services (ADHS) lab data qualifiers (ADHS, 2003):

- Sample collection and sample extract holding times
- Internal standard (IS)
- Continuing calibration blank (CCB) sample results
- Laboratory method blank (MB) sample results
- Laboratory fortified blank (LFB) percent recoveries
- Laboratory replicate (LR)
- Matrix spike/matrix spike duplicate (MS/MSD) sample percent recoveries (where applicable)
- MS/MSD relative percent differences (RPDs) (where applicable)
- Serial dilutions
- Inductively coupled plasma (ICP) interference check standard (ICS)
- Post-digestion spike
- Field duplicate sample RPDs
- Laboratory observations are also taken into account.

Data verification results are summarized in Appendix M.

5.0 CONCLUSIONS

The samples selected for testing cover the probable range of sulfide mineral contents, acid generation potentials, acid neutralization potentials, and the major rock/alteration types of the ore body and major rock/alteration types that will remain following ore extraction within the block cave. Thus, the Tier 1 and Tier 2 test results for the samples summarized here provide the basis for the prediction of acid drainage and metal leaching used in the predictive geochemical model of the block cave.

The results of Tier 1 testing showed that the majority of the rocks tested had the potential to generate acidic conditions. Leachate test results were compared to U.S. drinking water standards, and several samples had elevated levels of aluminum with a lesser number of samples having elevated concentrations of iron, manganese, chloride, fluoride, and sulfate. Whole rock chemical analysis results indicate that the samples are elevated in most metals and metalloids when compared to the crustal averages.

Tier 2 samples selected for HCTs were representative of the Tier 1 ABA sample results and weighted toward the abundance of the rock types expected to occur within and above the ore body. The HCTs were used to evaluate whether samples with an uncertain potential to generate acid will produce acidic leachate under accelerated laboratory conditions. The HCTs were also used to determine sulfide oxidation rates and masses of leachable constituents of the potentially acid generating and not-potentially acid generating rocks for use in the predictive geochemical model of the block cave.

The HCT results demonstrate that most of the samples with strongly negative NNP values produced acidic leachates; however, skarns and dolomites tended to produce circumneutral pH values regardless of their NNP Values. Samples with NNP values that had uncertain potential to generate acid typically did not generate acidic leachate.

Saturated column tests provided information regarding the quality of water that would be expected to occur within reflooded portions of the block cave. For SCTs with acidic pH, acidity showed a rapid rinse-out; however, for SCTs with alkaline pH, alkalinity showed a less rapid rinse-out.

Mineralogical testing was included in the Tier 2 analyses. Thin sections showed that typically 30 to 50 percent of the sulfides (pyrite) were encapsulated in silicates; therefore, the oxidation of the portion of sulfides is many orders of magnitude slower than with exposed pyrite. XRD results showed that secondary mineral phases that precipitated during humidity cell testing generally could not be detected, suggesting that HCTs operated as designed by rinsing out nearly all of the reaction products on a weekly basis.

6.0 REFERENCES

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APPENDIX A
ACID BASE ACCOUNTING RESULTS

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ACID/BASE ACCOUNTING RESULTS

Hole ID	Sample ID	Type	ACZS M600 1. Acid Generation Potential T CACO3/KT	ACZS M600 1. Acid Neutralization Potential T CACO3/KT	M600 3. Total Sulfur PERCENT	Sulfur Residual PERCENT	Sulfur Pyritic Sulfide PERCENT	Sulfur Sulfate PERCENT	Total Sulfur minus Sulfate PERCENT
RES-001C	RES-001C 1502-1505	N	77	1 F	2.74	0.65	1.82	0.27	2.47
	RES-001C 1530-1533	N	89	8	3.3	0.71	2.13	0.46	2.84
	RES-001C 1557-1560	N	128	12	4.6	1	3.1	0.5	4.1
	RES-001C 1584-1587	N	74	17	2.56	0.54	1.82	0.2	2.36
		FD	76	19	2.72	0.59	1.83	0.3	2.42
	RES-001C 1611-1614	N	67	25	2.45	0.65	1.48	0.32	2.13
	RES-001C 1639-1642	N	52	40	1.85	0.41	1.26	0.18	1.67
	RES-001C 1666-1669	N	55	30	2.06	0.43	1.34	0.29	1.77
	RES-001C 1693-1696	N	47	24	1.73	0.38	1.11	0.24	1.49
	RES-001C 1711-1714.96	N	39	35	1.81	0.31	0.93	0.57 R1	1.24
	RES-001C 1745-1748	N	34	21	2.59	0.23	0.86	1.5	1.09
	RES-001C 1771.75-1791.4	N	18	174	1.59	0.28	0.3	1.01	0.58
	RES-001C 1781-1784	N	6.56	63	2.09	0.1	0.11	1.88	0.21
	RES-001C 1799-1802	N	99	399	3.36	1.06	2.1	0.2	3.16
		FD	95	401	3.3	1.05	1.98	0.27	3.03
	RES-001C 1814-1817	N	25	44	1.54	0.33	0.46	0.75	0.79
	RES-001C 1837-1840	N	23	43	2.11	0.32	0.43	1.36	0.75
	RES-001C 1855-1858	N	26	161	1.04	0.4	0.43	0.21	0.83
	RES-001C 1873-1876	N	68	249	2.31	1.49	0.69	0.13	2.18
	RES-001C 1892.5-1895	N	77	205	2.52	1.33	1.12	0.07 F	2.45
	RES-001C 1934-1937	N	83	7	3.3	0.5	2.17	0.63	2.67
	RES-001C 1987-1990	N	106	29	3.78	1.53	1.85	0.4	3.38
	RES-001C 2007-2010	N	83	44	3.09	1.28	1.37	0.44	2.65
		FD	81	43	2.97	1.29	1.3	0.38	2.59
	RES-001C 2041-2044	N	112	45	4.13	1.9	1.68	0.55	3.58
	RES-001C 2115-2118	N	142	267	5.11	1.93	2.62	0.56	4.55
	RES-001C 2164.4-2166.3	N	1253	5	41.9	7.88	32.2	1.76	40.1
	RES-001C 2214-2215	N	138	10	6.76	1.9	2.5	2.36	4.4
	RES-001C 2242-2244	N	178	24	8.24	1.93	3.76	2.55	5.69

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RES-002A	RES-002A 1007-1010	N	6.25	<1	0.24	0.16	0.04 F	0.04 F	0.2
	RES-002A 1058-1061	N	51	<1	1.73	0.23	1.39	0.11	1.62
	RES-002A 1109-1112	N	74	1 F	2.52	0.4	1.98	0.14	2.38
	RES-002A 1154-1156	N	91	1 F	3.21	0.34	2.56	0.31	2.9
	RES-002A 1201-1203	N	525	<1	17.7	3.27	13.5	0.84	16.8
		FD	541	<1	18.2	3.85	13.4	0.96	17.3
	RES-002A 1246-1249	N	189	<1	6.44	1.23	4.83	0.38	6.06
	RES-002A 1291-1292	N	236	<1	7.88	2.53	5.01	0.34	7.54
	RES-002A 1325-1328	N	316	<1	10.5	1.64	8.42	0.44	10.1
	RES-002A 1363-1366	N	219	<1	7.26	1.42	5.58	0.26	7
	RES-002A 1395-1397	N	353	<1	11.8	1.64	9.65	0.5	11.3
	RES-002A 1414.6-1417	N	205	<1	7.32	0.57	6	0.75	6.57
	RES-002A 1454-1457	N	275	1 F	9.21	1.26	7.55	0.4	8.81
	RES-002A 1538-1541	N	122	<1	4.43	1.37	2.54	0.52	3.91
	RES-002A 1583-1586	N	99	<1	4.26	1.99	1.19	1.08	3.18
	RES-002A 1627-1630	N	67	<1	2.71	1.03	1.12	0.56	2.15
	RES-002A 1732-1735	N	83	13	3.21	1.19	1.46	0.56	2.65
		FD	74	13	2.97	1.11	1.25	0.61	2.36
	RES-002A 1781-1784	N	80	<1	3.28	0.51	2.04	0.73	2.55
	RES-002A 1814-1817	N	68	<1	2.8	0.46	1.73	0.61	2.19
	RES-002A 1876-1879	N	166	<1	8.7	2.61	2.7	3.39	5.31
	RES-002A 1927-1930	N	81	60	5.39	1.08	1.5	2.81	2.58
	RES-002A 1981-1984	N	71	<1	4.84	1.11	1.16	2.57	2.27
	RES-002A 858-861	N	<1	2 F	0.02 F	0.02 F	<0.1	0.01 F	0.01 F
	RES-002A 888-891	N	<1	1 F	0.06 F	0.04 F	0.01 F	0.01 F	0.05 F
	RES-002A 927-930	N	<1	2 F	0.05 F	0.03 F	0.01 F	0.01 F	0.04 F
	RES-002A 965-968	N	79	1 F	2.77	0.58	1.96	0.23	2.54
	RES-002A 992-995	N	14	<1	0.49	0.46	<0.1	0.03 F	0.46
		FD	15	1 F	0.5	0.46	<0.1	0.03 F	0.47

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RES-005I	RES-005I 1011.88-1012.45	N	<1	44	0.01 F	<0.1	<0.1	0.01 F	<0.1
	RES-005I 1322.73-1323.23	N	<1	305	0.02 F	<0.1	<0.1	0.02 F	<0.1
	RES-005I 1353-1353.49	N	<1	238	0.02 F	<0.1	<0.1	0.02 F	<0.1
	RES-005I 1360.5-1361.51	N	<1	145	0.01 F	<0.1	<0.1	0.01 F	<0.1
	RES-005I 1370.93-1374	N	<1	4 F	0.09 F	0.07 F	<0.1	0.02 F	0.07 F
	RES-005I 1380-1383	N	4.06	5	0.16	0.13	<0.1	0.03 F	0.13
	RES-005I 1389-1391.57	N	3.44	4 F	0.13	0.1	0.01 F	0.02 F	0.11
	RES-005I 1396.3-1399.3	N	<1	7	0.07 F	0.06 F	<0.1	0.01 F	0.06 F
	RES-005I 1405-1406.67	N	4	9	0.17	0.14	<0.1	0.03 F	0.14
	RES-005I 1410.18-1413.18	N	<1	3 F	0.14	0.08 F	0.01 F	0.05 F	0.09 F
	RES-005I 1419.18-1422.18	N	<1	5	0.13	0.07 F	0.02 F	0.04 F	0.09 F
	RES-005I 1425.5-1426.51	N	<1	3 F	0.13	0.06 F	0.02 F	0.05 F	0.08 F
	RES-005I 1428.18-1431.18	N	<1	3 F	0.07 F	0.03 F	0.01 F	0.03 F	0.04 F
	RES-005I 1437.13-1440.13	N	<1	5	0.07 F	0.05 F	<0.1	0.03 F	0.04 F
	RES-005I 1446.13-1449.13	N	3.44	4 F	0.13	0.1	0.01 F	0.02 F	0.11
	RES-005I 1455.13-1458.13	N	<1	4 F	0.08 F	0.06 F	<0.1	0.02 F	0.06 F
	RES-005I 1464.13-1467.13	N	<1	5	0.06 F	0.05 F	<0.1	0.01 F	0.05 F
	RES-005I 1473.13-1476.13	N	<1	2 F	0.05 F	0.02 F	<0.1	0.03 F	0.02 F
	RES-005I 1481-1482.66	N	<1	3 F	0.05 F	0.04 F	0.01 F	<0.1	0.05 F
	RES-005I 1485.5-1486.51	N	<1	1 F	0.05 F	0.04 F	<0.1	0.01 F	0.04 F
	RES-005I 1487.1-1490.1	N	<1	5	0.12	0.04 F	0.03 F	0.05 F	0.07 F
	RES-005I 1490.1-1493.1	N	<1	5	0.05 F	0.03 F	0.01 F	0.01 F	0.04 F
	RES-005I 1499-1502	N	<1	5	0.07 F	0.06 F	<0.1	0.01 F	0.06 F
	RES-005I 1506.56-1509.47	N	<1	5	0.1	0.08 F	0.01 F	0.01 F	0.09 F
	RES-005I 1515.47-1518.47	N	<1	6	0.05 F	0.04 F	<0.1	0.01 F	0.04 F
	RES-005I 1524.47-1527.47	N	<1	5	0.04 F	0.02 F	<0.1	0.02 F	0.02 F
	RES-005I 1532.98-1534.97	N	<1	6	0.05 F	0.03 F	<0.1	0.02 F	0.03 F
	RES-005I 1544-1546.55	N	<1	5	0.09 F	0.08 F	<0.1	0.01 F	0.08 F
	RES-005I 1552.55-1555.58	N	<1	5	0.04 F	0.03 F	0.01 F	<0.1	0.04 F
	RES-005I 1559.46-1562.46	N	<1	6	0.04 F	0.02 F	0.01 F	0.01 F	0.03 F

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RES-005I	RES-005I 1568.46-1571.46	N	<1	6	0.04 F	0.03 F	<0.1	0.01 F	0.03 F
	RES-005I 1577.46-1580.46	N	<1	4 F	0.04 F	0.03 F	<0.1	0.01 F	0.03 F
		FD	<1	4 F	0.04 F	0.03 F	<0.1	0.01 F	0.03 F
	RES-005I 1586.46-1589.46	N	<1	6	0.04 F	0.02 F	<0.1	0.02 F	0.02 F
	RES-005I 1595.46-1598.46	N	<1	5	0.04 F	0.03 F	<0.1	0.01 F	0.03 F
	RES-005I 1604.46-1607.46	N	<1	4 F	0.05 F	0.03 F	0.01 F	0.01 F	0.04 F
	RES-005I 1613.46-1616.46	N	<1	2 F	0.05 F	0.04 F	<0.1	0.01 F	0.04 F
	RES-005I 1616.46-1619	N	<1	4 F	0.06 F	0.05 F	<0.1	0.01 F	0.05 F
	RES-005I 1626.54-1627.16	N	<1	5	0.05 F	0.03 F	0.01 F	0.01 F	0.04 F
	RES-005I 1627.16-1630	N	<1	2 F	0.03 F	0.01 F	0.01 F	0.01 F	0.02 F
	RES-005I 1630.5-1631.5	N	<1	<1	0.02 F	0.01 F	0.01 F	<0.1	0.02 F
	RES-005I 1632.56-1635.56	N	131	<1	4.53	1.17	3.01	0.35	4.18
	RES-005I 1638.37-1641	N	160	<1	5.42	1.44	3.67	0.31	5.11
	RES-005I 1645.84-1648.08	N	22	2 F	1.14	0.19	0.5	0.45	0.69
	RES-005I 1652-1654.93	N	146	<1	5.08	1.42	3.26	0.4	4.68
	RES-005I 1654.93-1657.3	N	178	<1	5.97	3.61	2.08	0.28	5.69
	RES-005I 1677.8-1680.8	N	135	<1	4.87	1.52	2.79	0.56 R1	4.31
	RES-005I 1695.23-1697.23	N	107	1 F	3.61	1.58	1.85	0.18	3.43
	RES-005I 1711.23-1713.23	N	170	2 F	5.44	1.74	3.76	<0.1	5.44
	RES-005I 1727.23-1729.23	N	92	<1	3.19	1.19	1.74	0.26	2.93
	RES-005I 1730.5-1731.5	N	87	<1	3.16	1.15	1.63	0.38	2.78
	RES-005I 1743.23-1745.23	N	134	5	4.72	1.37	2.91	0.44	4.28
	RES-005I 1759.23-1761.23	N	152	4 F	5.01	1.07	3.78	0.16	4.85
	RES-005I 1775.23-1778.23	N	121	2 F	4.04	0.68	3.18	0.18	3.86
	RES-005I 1794.36-1796.3	N	147	<1	4.79	0.99	3.71	0.09 F	4.7
	RES-005I 1811.3-1814.3	N	140	<1	5.1	1.78	2.71	0.61	4.49
	RES-005I 1830.5-1831.5	N	149	<1	5.17	1.75	3.01	0.41	4.76
	RES-005I 1835.3-1838.3	N	132	3 F	4.28	0.93	3.28	0.07 F	4.21
	RES-005I 1855.91-1858.91	N	91	<1	3.24	0.86	2.06	0.32	2.92
	RES-005I 1872.9-1875.38	N	108	2 F	3.64	1.06	2.38	0.2	3.44

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APPENDIX A
ACID/BASE ACCOUNTING RESULTS

Hole ID	Sample ID	Type	ACZS M600 1. Acid Generation Potential T CACO3/KT	ACZS M600 1. Acid Neutralization Potential T CACO3/KT	M600 3. Total Sulfur PERCENT	Sulfur Residual PERCENT	Sulfur Pyritic Sulfide PERCENT	Sulfur Sulfate PERCENT	Total Sulfur minus Sulfate PERCENT
RES-005I	RES-005I 1875.38-1878.2	N	140	<1	4.8	2.1	2.37	0.33	4.47
	RES-005I 1884-1887	N	161	16	5.23	1.85	3.31	0.07 F	5.16
	RES-005I 1895-1897.06	N	88	2 F	3.18	1.16	1.67	0.35	2.83
	RES-005I 1901.49-1902.36	N	154	4 F	5.08	1.5	3.43	0.15	4.93
	RES-005I 1917.29-1919.1	N	110	17	3.69	1.5	2.02	0.17	3.52
	RES-005I 1923.1-1925.3	N	166	18	6.32	2.3	3.01	1.01	5.31
	RES-005I 1955.06-1958.06	N	60	23	2	1.01	0.91	0.08 F	1.92
	RES-005I 1960.5-1961.5	N	63	26	2.08	1.11	0.89	0.08 F	2
	RES-005I 1979.06-1982.06	N	65	31	2.23	1.21	0.88	0.14	2.09
	RES-005I 2008.11-2011.11	N	71	32	2.36	1.41	0.86	0.09 F	2.27
	RES-005I 2032.11-2035.11	N	119	23	3.86	2.38	1.44	0.04 F	3.82
	RES-005I 2049.84-2052.84	N	43	6	1.89	0.6	0.76	0.53	1.36
	RES-005I 2061.84-2064.84	N	74	4 F	2.75	0.47	1.9	0.38	2.37
RES-005J	RES-005J 1660.4-1668.47	N	162	1 F	5.18	1.51	3.66	<0.1	5.18
RES-006D	RES-006D 1247.48-1250.48	N	16	26	0.59	0.13	0.37	0.09 F	0.5
	RES-006D 1405.47-1408.44	N	40	21	1.48	0.29	0.99	0.2	1.28
	RES-006D 1450.44-1453.44	N	222	27	7.57	1.09	6.01	0.47	7.1
	RES-006D 1495.44-1498.44	N	181	25	6.11	1.27	4.53	0.31	5.8
	RES-006D 1532.81-1535.81	N	162	20	5.48	0.65	4.53	0.3	5.18
	RES-006D 1577.43-1580.43	N	80	27	2.56	0.7	1.88	<0.1	2.56
	RES-006D 1600.5-1601.5	N	78	25	2.69	0.71	1.79	0.19	2.5
	RES-006D 1622.43-1625.43	N	174	13	6.01	0.83	4.75	0.43	5.58
	RES-006D 1667.43-1670.43	N	150	4 F	5.51	0.62	4.19	0.7	4.81
	RES-006D 1705.4-1708.4	N	372	2 F	12.1	2.61	9.28	0.25	11.9
	RES-006D 1750.4-1753.4	N	331	<1	11.2	2.24	8.38	0.54	10.6
	RES-006D 1798.4-1801.4	N	316	1 F	10.5	1.9	8.17	0.42	10.1
	RES-006D 1843.4-1846.4	N	334	<1	11.2	2.42	8.28	0.45	10.7
	RES-006D 1898.21-1901.09	N	176	1 F	6.15	0.76	4.87	0.52	5.63
	RES-006D 1927.23-1930.23	N	164	<1	5.62	1.07	4.18	0.37	5.25
		FD	165	<1	5.58	1.11	4.18	0.29	5.29

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APPENDIX A
ACID/BASE ACCOUNTING RESULTS

Hole ID	Sample ID	Type	ACZS M600 1. Acid Generation Potential T CACO3/KT	ACZS M600 1. Acid Neutralization Potential T CACO3/KT	M600 3. Total Sulfur PERCENT	Sulfur Residual PERCENT	Sulfur Pyritic Sulfide PERCENT	Sulfur Sulfate PERCENT	Total Sulfur minus Sulfate PERCENT
RES-006D	RES-006D 1952.56-1954.83	N	54	1 F	1.99	0.28	1.44	0.27	1.72
	RES-006D 1954.83-1972	N	99	1 F	3.64	1.01	2.17	0.46	3.18
	RES-006D 1980.6-1983.6	N	397	<1	13.1	2.18	10.6	0.35	12.7
	RES-006D 1995.6-1998.6	N	331	<1	11.1	3.32	7.23	0.58	10.6
	RES-006D 2022.66-2025.66	N	286	1 F	10.1	2.27	6.88	0.96	9.15
	RES-006D 2040.66-2043.66	N	140	8	5.29	1.59	2.88	0.82	4.47
	RES-006D 2058.16-2061.16	N	120	51	4.1	1.85	1.98	0.27	3.83
	RES-006D 2073.13-2076.13	N	182	35	6.91	3	2.81	1.1	5.81
		FD	177	34	6.81	3.11	2.56	1.14	5.67
	RES-006D 2091.13-2094.13	N	79	31	2.9	1.99	0.53	0.38	2.52
	RES-006D 2115.47-2118.47	N	97	1 F	4.34	1.06	2.03	1.25	3.09
	RES-006D 2125.45-2128.42	N	80	1 F	3.39	0.64	1.91	0.84	2.55
	RES-006D 2137.08-2138.5	N	338	<1	11.5	2.22	8.54	0.69	10.8
RES-009	RES-009 1012.16-1014.16	N	<1	18	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 1027.38-1030.3	N	<1	31	0.02 F	<0.1	<0.1	0.02 F	<0.1
	RES-009 1045.3-1048.3	N	25	26	0.94	0.08 F	0.71	0.15	0.79
	RES-009 105.16-105.73	N	<1	11	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 1063.3-1066.3	N	27	26	0.95	0.1	0.75	0.1	0.85
	RES-009 1081.3-1084.3	N	23	20	0.82	0.06 F	0.66	0.1	0.72
	RES-009 1098.34-1100.96	N	36	25	1.22	0.08 F	1.08	0.06 F	1.16
	RES-009 199.18-199.78	N	<1	11	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 199.78-200.3	N	<1	11	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 281.14-281.64	N	<1	12	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 348.3-348.83	N	<1	9	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 447.23-447.8	N	<1	86	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 485.12-485.71	N	<1	189	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 557.06-557.56	N	<1	13	0.02 F	<0.1	<0.1	0.02 F	<0.1
	RES-009 647.52-648.1	N	<1	91	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 7.43-7.96	N	<1	7	<0.1	<0.1	<0.1	<0.1	<0.1
	RES-009 718-718.58	N	<1	9	0.03 F	<0.1	<0.1	0.01 F	<0.1

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ACID/BASE ACCOUNTING RESULTS

Hole ID	Sample ID	Type	ACZS M600 1. Acid Generation Potential T CACO3/KT	ACZS M600 1. Acid Neutralization Potential T CACO3/KT	M600 3. Total Sulfur PERCENT	Sulfur Residual PERCENT	Sulfur Pyritic Sulfide PERCENT	Sulfur Sulfate PERCENT	Total Sulfur minus Sulfate PERCENT
RES-009	RES-009 810.42-810.98	N	<1	128	0.02 F	<0.1	<0.1	0.02 F	<0.1
	RES-009 906.08-906.58	N	<1	149	0.02 F	<0.1	<0.1	0.02 F	<0.1
	RES-009 987.9-988.45	N	<1	16	0.05 F	0.03 F	<0.1	0.02 F	0.03 F
	RES-009 994.67-997.67	N	<1	17	0.02 F	<0.1	<0.1	0.02 F	<0.1
RES-009D	RES-009D 1119.32-1122.42	N	22	11	0.78	0.09 F	0.62	0.07 F	0.71
		FD	22	8	0.8	0.13	0.56	0.11	0.69
	RES-009D 1128.62-1131.72	N	28	11	1.03	0.16	0.73	0.14	0.89
RES-009E	RES-009E 1307.1-1310.1	N	341	<1	11.3	1.5	9.35	0.49	10.9
	RES-009E 1319.1-1322.1	N	101	1 F	3.42	0.38	2.84	0.2	3.22
	RES-009E 1335.41-1338.16	N	156	<1	5.29	0.49	4.49	0.31	4.98
	RES-009E 1351.03-1354.03	N	151	1 F	5.09	0.58	4.24	0.27	4.82
	RES-009E 1368.07-1370.69	N	274	<1	9.19	1.18	7.58	0.43	8.76
	RES-009E 1385.61-1388.61	N	211	<1	7.07	0.74	6.02	0.31	6.76
	RES-009E 1402.22-1404.53	N	156	1 F	5.3	0.66	4.33	0.31	4.99
	RES-009E 1410.5-1411.5	N	151	<1	5.25	0.72	4.12	0.41	4.84
	RES-009E 1418.16-1419.8	N	206	2 F	6.99	0.87	5.71	0.41	6.58
	RES-009E 1431.42-1433.8	N	215	<1	7.27	1.15	5.74	0.38	6.89
	RES-009E 1446.41-1449.41	N	304	<1	10.2	1.26	8.48	0.5	9.74
	RES-009E 1464.41-1467.41	N	248	<1	8.38	1.16	6.79	0.43	7.95
	RES-009E 1478.13-1481.13	N	279	2 F	9.38	1.35	7.57	0.46	8.92
	RES-009E 1496.13-1499.13	N	300	4 F	9.93	1.53	8.08	0.32	9.61
	RES-009E 1510.74-1527.19	N	309	2 F	10.4	2.05	7.85	0.52	9.9
	RES-009E 1514.13-1517.13	N	285	<1	9.47	1.16	7.95	0.36	9.11
	RES-009E 1532.4-1534.49	N	312	1 F	10.5	2	7.97	0.49	9.97
	RES-009E 1540.5-1541.5	N	309	1 F	10.4	2.15	7.74	0.48	9.89
	RES-009E 1547.47-1550.47	N	268	6	9.19	1.62	6.97	0.6	8.59
	RES-009E 1565.47-1568.47	N	375	<1	12.4	1.58	10.4	0.46	12
	RES-009E 1597.32-1599.88	N	453	<1	15	2.43	12	0.48	14.5
	RES-009E 1602.44-1605	N	328	<1	10.9	1.56	8.96	0.35	10.5
	RES-009E 1617.38-1619.14	N	115	6	3.91	0.73	2.95	0.23	3.68

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ACID/BASE ACCOUNTING RESULTS

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RES-009E	RES-009E 1634.46-1637.47	N	218	2 F	7.91	1.41	5.58	0.92	6.99
	RES-009E 1650.14-1652.81	N	283	<1	9.46	2.25	6.81	0.4	9.06
		FD	280	<1	9.53	2.08	6.89	0.56	8.97
	RES-009E 1669.07-1672.07	N	128	<1	4.33	1.31	2.78	0.24	4.09
	RES-009E 1685.09-1687.47	N	88	1 F	3.16	1.01	1.81	0.34 R1	2.82
	RES-009E 1697.61-1700.61	N	154	1 F	5.27	0.7	4.23	0.34	4.93
	RES-009E 1718.61-1721.61	N	102	2 F	3.49	0.61	2.65	0.23	3.26
	RES-009E 1739.63-1742.63	N	76	4 F	2.69	0.44	2	0.25	2.44
	RES-009E 1760.86-1763.86	N	75	3 F	2.62	0.6	1.8	0.22	2.4
		FD	78	4 F	2.64	0.67	1.81	0.16	2.48
	RES-009E 1789.83-1792.31	N	95	6	3.42	0.58	2.47	0.37	3.05
	RES-009E 1798.16-1799.79	N	131	4 F	4.49	1.06	3.12	0.31	4.18
	RES-009E 1801.42-1804.15	N	285	3 F	9.51	2.12	7	0.39	9.12
	RES-009E 1818.62-1821.62	N	276	31	9.3	2.01	6.81	0.48	8.82
	RES-009E 1829.95-1832.48	N	240	28	7.98	3.48	4.21	0.29	7.69
	RES-009E 1846.66-1849.66	N	311	56	10.1	2.62	7.33	0.17	9.95
	RES-009E 1862.15-1865.15	N	303	294	9.93	2.65	7.05	0.23	9.7
	RES-009E 1867.87-1884.35	N	227	396	7.25	3.38	3.9	<0.1	7.25
	RES-009E 1880.15-1882.37	N	244	405	8.22	4.4	3.42	0.4	7.82
		FD	251	401	8.46	4.22	3.8	0.44	8.02
	RES-009E 1899-1901.88	N	215	85	7.19	3.74	3.13	0.32	6.87
	RES-009E 1929.76-1932.58	N	264	101	8.81	4.55	3.91	0.35	8.46
	RES-009E 1947.67-1950.67	N	172	118	5.89	2.24	3.27	0.38	5.51
	RES-009E 1954.6-1956	N	92	67	3.15	2.11	0.84	0.2	2.95
	RES-009E 1967.76-1969.72	N	36	9	1.56	0.71	0.45	0.4	1.16
	RES-009E 1974.78-1977.89	N	97	331	3.27	1.78	1.31	0.18 R1	3.09
	RES-009E 1984.74-1987.74	N	76	9	3.37	0.85	1.59	0.93	2.44
	RES-009E 2056.38-2075	N	68	21	4.9	0.81	1.35	2.74	2.16

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APPENDIX B
NET ACID GENERATION RESULTS

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NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	ACZS Net Acid Generation KG H2SO4/T	Acidity as CaCO3 MG/L	pH after Oxidation PH UNITS	Sulfate (as SO4) MG/L	Conductivity at 25 degrees C UMHOS/CM	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L
RES-001C	RES-001C 1502-1505	N	29	281	2.6	639 D3	1440	11.2 D3	<0.002	<0.001	0.09 D3	<0.05 D3	<0.3 D3	0.0096	7 D3	<30 D1
	RES-001C 1530-1533	N	35	402	2.5	888 D3	2310	10.3 D3	<0.02 D3	<0.01 D3	0.26 D3	<0.05 D3	<0.3 D3	0.003 FD3	21 D3	<30 D1
	RES-001C 1557-1560	N	56	543	2.3	1160 D3	2940	13.7 D3	<0.002	0.0012	0.19 D3	<0.05 D3	<0.3 D3	0.0019	33 D3	<30 D1
	RES-001C 1584-1587	N	31	330	2.7	807 D3	1800	15.8 D3	<0.002	<0.001	0.32 D3	<0.05 D3	<0.3 D3	0.0013	29 D3	<30 D1
		FD	39	378	2.5	837 D3	1930	17.9 D3	<0.002	0.0008 F	0.31 D3	<0.05 D3	<0.3 D3	0.0014	30 D3	<30 D1
	RES-001C 1611-1614	N	<1	161	7.3	544 D3	965	6 D3	<0.002	<0.001	0.28 D3	<0.05 D3	<0.3 D3	0.0113	55 D3	<30 D1
	RES-001C 1639-1642	N	15	68	3.8	284 D3	491	2 D3	<0.002	<0.001	0.2 D3	<0.05 D3	<0.3 D3	0.0053	38 D3	<30 D1
	RES-001C 1666-1669	N	<1	20	8.4	185 D3	376	<0.8 D3	<0.002	0.0006 F	0.04 FD3	<0.05 D3	<0.3 D3	<0.0005	39 D3	<30 D1
	RES-001C 1693-1696	N	11	105	3.8	348 D3	704	4 D3	<0.002	<0.001	0.13 D3	<0.05 D3	<0.3 D3	0.0058	39 D3	<30 D1
	RES-001C 1711-1714.96	N	<1	48	10.6	157 D3M2	499	1.2 D3M1	0.0006 F	<0.001	<0.08 D3	<0.05 D3	<0.3 D3	<0.0005	86 D3	<30 D1M2
	RES-001C 1745-1748	N	19	141	3	859 D3	1490	7.2 D3	<0.002	0.0007 F	0.09 D3	<0.05 D3	0.11 FD3	0.0013	198 D3	<30 D1
	RES-001C 1771.75-1791.4	N	<1	4 F	9.1	438 D1	984	<0.8 D3	<0.01 D3	<0.01 D3	0.02 FD3	<0.05 D3	1.52 D3	0.0009 FD3	212 D3	30 D1
	RES-001C 1781-1784	N	<1	<10	7.9	585 D3	1170	<0.8 D3	<0.01 D3	<0.005 D3	0.03 FD3	<0.05 D3	0.15 FD3	<0.003 D3	269 D3	<30 D1
	RES-001C 1799-1802	N	<1	<10	8.5	165D3	492	<0.8 D3	<0.002	<0.001	<0.08 D3	<0.05 D3	0.16 FD3	0.0004 F	79 D3	<30 D1
		FD	<1	<10	8.5	168 D3	481	<0.8 D3	<0.002	0.0018	<0.08 D3	<0.05 D3	0.07 FD3	0.0004 F	76 D3	<30 D1
	RES-001C 1814-1817	N	<1	4 F	8.7	265 D3	622	<0.8 D3	<0.002	<0.001	<0.08 D3	<0.05 D3	0.07 FD3	<0.0005	113 D3	<30 D1
	RES-001C 1837-1840	N	<1	<10	10.3	431 D3	889	0.2 FD3	<0.002	<0.001	0.02 FD3	<0.05 D3	0.09 FD3	0.0001 F	191 D3	<30 D1
	RES-001C 1855-1858	N	<1	<10	8.7	116 D3	349	<0.8 D3	0.0005 F	<0.001	0.09 D3	<0.05 D3	0.19 FD3	<0.0005	52 D3	<30 D1
	RES-001C 1873-1876	N	<1	<10	8.6	139 D3	411	<0.8 D3	<0.002	<0.001	0.03 FD3	<0.05 D3	0.06 FD3	<0.0005	57 D3	<30 D1
	RES-001C 1892.5-1895	N	<1	<10	8.6	158 D3	473	<0.8 D3	<0.002	<0.001	0.04 FD3	<0.05 D3	0.08 FD3	0.0002 F	64 D3	<30 D1
	RES-001C 1934-1937	N	33	289	2.8	548 D3	1140	2.3 D3	<0.002	0.0009 F	0.03 FD3	<0.05 D3	0.06 D3	0.0003 F	5 D3	<30 D1
	RES-001C 1987-1990	N	30	277	3.1	654 D3	1090	4.4 D3	<0.002	0.0012	0.11 D3	<0.05 D3	0.08 FD3	0.0046	45 D3	<30 D1
	RES-001C 2007-2010	N	<1	<10	8.3	207 D3	525	<0.8 D3	<0.01 D3	<0.005 D3	0.1 D3	<0.05 D3	<0.3 D3	<0.003 D3	89 D3	<30 D1
		FD	<1	<10	8.6	202 D3	502	0.2 FD3	<0.002	0.0006 F	0.11 D3	<0.05 D3	<0.3 D3	0.0002 F	83 D3	<30 D1
	RES-001C 2041-2044	N	<1	<10	8.3	303 D3	660	<0.8 D3	<0.002	<0.001	0.07 FD3	<0.05 D3	0.05 FD3	<0.0005	116 D3	<30 D1
	RES-001C 2115-2118	N	<1	<10	8.4	199 D3	578	<0.8 D3	<0.002	0.0005 F	0.07 FD3	<0.05 D3	<0.3 D3	0.0004 F	98 D3	<30 D1
	RES-001C 2164.4-2166.3	N	145	1770	2.1	3320 D3	5050	21.3 D3	0.0075	0.0352	0.04 FD3	<0.05 D3	0.09 FD3	0.0011	13 D3	<30 D1
	RES-001C 2214-2215	N	55	519	2.7	2140 D3	2590	2.1 D3	<0.002	0.0012	0.02 FD3	<0.05 D3	<0.3 D3	0.0222	287 D3	<30 D1
	RES-001C 2242-2244	N	52	494	2.8	2000 D3	2370	11.7 D3	<0.002	0.001	0.05 FD3	<0.05 D3	<0.3 D3	0.0006	251 D3	<30 D1
RES-002A	RES-002A 1007-1010	N	2	20 B4	3.7	93 D4	156	0.7 FD4	0.0005 F	0.0013	0.33 D4	<0.05 D4	0.06 FD4	0.0003 F	1 FD4	<30 D4
	RES-002A 1058-1061	N	29	283 B7	2.4	566 D4	1620	4 D4	<0.002	0.0012	0.11 D4	0.01 FD4	0.07 FD4	0.0002 F	4 FD4	<30 D4
	RES-002A 1109-1112	N	36	374 B7	2.3	667 D4M2	1970	4.7 D4	0.0014 F	0.0011	0.17 D4	<0.05 D4	0.07 FD4	0.0005	2 FD4	<30 D4M1
	RES-002A 1154-1156	N	33	374 B7	2.5	675 D4	2080	4.9 D4	<0.002	<0.001	0.06 FD4	<0.05 D4	0.06 FD4	0.0002 F	<5 D4	<30 D4
	RES-002A 1201-1203	N	76	748 B7	2.2	1490 D4	3300	6.5 D4	0.0006 F	0.0775	<0.08 D4	<0.05 D4	0.07 FD4	0.0016	<5 D4	<30 D4
		FD	72	695 B7	2.2	1360 D4	2940	4 D4	0.0016 F	0.0101	<0.08 D4	<0.05 D4	<0.3 D4	0.0012	<5 D4	<30 D4
	RES-002A 1246-1249	N	41	406 B7	2.4	757 D4	1880	9.6 D4	0.0005 F	0.0048	0.07 FD4	<0.05 D4	0.05 FD4	0.0003 F	<5 D4	<30 D4
	RES-002A 1291-1292	N	56	543 B7	2.2	943 D4	2760	7.2 D4	<0.002	0.0039	0.07 FD4	<0.05 D4	0.05 FD4	0.0001 F	<5 D4	<30 D4
	RES-002A 1325-1328	N	58	458 B7	2.4	860 D4	2220	6.4 D4	<0.002	0.0024	0.03 FD4	<0.05 D4	0.05 FD4	0.0004 F	<5 D4	<30 D4
	RES-002A 1363-1366	N	43	466 B7	2.4	783 D4	2060	6.4 D4	<0.002	0.0066	0.05 FD4	<0.05 D4	0.06 FD4	0.0003 F	1 FD4	<30 D4
	RES-002A 1395-1397	N	71	716 B7	2.2	1380 D4	3120	5.6 D4	0.0005 F	0.0033	<0.08 D4	<0.05 D4	0.07 FD4	0.0002 F	<5 D4	<30 D4
	RES-002A 1414.6-1417	N	60	575 B7	2.2	1070 D4	2870	5.5 D4	0.0004 F	<0.001	<0.08 D4	<0.05 D4	0.06 FD4	<0.0005	<5 D4	<30 D4
	RES-002A 1454-1457	N	33	374 B7	3.2	671 D4	1220	3.3 D4	<0.002	0.0007 F	0.04 FD4	<0.05 D4	0.05 FD4	0.0004 F	<5 D4	<30 D4

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	ACZS Net Acid Generation KG H2SO4/T	Acidity as CaCO3 MG/L	pH after Oxidation PH UNITS	Sulfate (as SO4) MG/L	Conductivity at 25 degrees C UMHOS/CM	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L
RES-002A	RES-002A 1538-1541	N	41	434 B7	2.7	713 D4	1410	5.3 D4	<0.002	0.0039	0.08 D4	<0.05 D4	<0.3 D4	0.0166	3 FD4	<30 D4
	RES-002A 1583-1586	N	54	579	2.6	901 D3	1650	4.5 D3	0.0006 F	0.0064	0.04 FD3	<0.05 D3	<0.3 D3	0.0054	<5 D3	<30 D1
	RES-002A 1627-1630	N	43	306	2.7	589 D3	1130	4.9 D3	<0.02 D3	0.007 FD3	0.04 FD3	<0.05 D3	<0.3 D3	0.015 D3	1 FD3	<30 D1
	RES-002A 1732-1735	N	41	318	2.9	638 D3	1150	6.9 D3	<0.002	0.0025	0.03 FD3	<0.05 D3	<0.3 D3	0.0017	6 D3	<30 D1
	RES-002A 1755-1756	N	33	302	2.9	635 D3	1160	7.7 D3	<0.002	0.0023	0.03 FD3	<0.05 D3	<0.3 D3	0.0019	7 D3	<30 D1
	RES-002A 1781-1784	N	42	430	2.3	858 D3	2040	4.9 D3	<0.002	0.0012	0.08 D3	<0.05 D3	<0.3 D3	0.0078	1 FD3	<30 D1
	RES-002A 1814-1817	N	42	406	2.3	786 D3	2200	4.4 D3	<0.002	0.0014	0.06 FD3	<0.05 D3	<0.3 D3	0.0013	2 FD3	<30 D1
	RES-002A 1876-1879	N	59	559	2.6	1750 D3	2690	5 D3	<0.002	0.0018	<0.08 D3	<0.05 D3	<0.3 D3	0.0021	234 D3	<30 D1
	RES-002A 1927-1930	N	34	370	2.9	1390 D3	2310	7.7 D3	<0.002	0.0019	0.08 D3	<0.05 D3	<0.3 D3	0.003	280 D3	<30 D1
	RES-002A 1981-1984	N	32	314	3.1	1410 D3	1970	5.1 D3	<0.002	<0.001	0.05 FD3	<0.05 D3	<0.3 D3	0.0022	253 D3	<30 D1
	RES-002A 858-861	N	2	562 B7	6.5	<30 D4	31	0.2 FD4	0.0007 F	0.006	<0.08 D4	<0.05 D4	0.07 FD4	<0.0005	<5 D4	<30 D4
	RES-002A 888-891	N	<1	20 B4	7.5	<30 D4	42	0.3 FD4	0.0009 F	0.04	0.6 D4	<0.05 D4	<0.3 D4	<0.0005	<5 D4	<30 D4
	RES-002A 927-930	N	<1	12 B4	7.7	<30 D4	45	0.4 FD4	0.0011 F	0.0254	0.45 D4	<0.05 D4	<0.3 D4	<0.0005	<5 D4	<30 D4
	RES-002A 965-968	N	10	141 B7	4.9	221 D4	394	0.2 FD4	<0.002	<0.001	0.08 D4	<0.05 D4	0.05 FD4	0.0004 F	<5 D4	<30 D4
	RES-002A 992-995	N	2	243 B7	6.2	<30 D4	35	<0.8 D4	0.0058	0.0069	0.04 FD4	<0.05 D4	0.06 FD4	<0.0005	<5 D4	<30 D4
		FD	1	267 B7	6.3	<30 D4	37	<0.8 D4	0.0061	0.0065	0.04 FD4	<0.05 D4	0.06 FD4	<0.0005	<5 D4	<30 D4
RES-005I	RES-005I 1011.88-1012.45	N	<1	<10	10.6	<30 D1	262	1.6 D3	0.002 FD3	<0.005 D3	<0.08 D3	<0.05 D3	0.21 FD3	<0.003 D3	34 D3	<30 D1
	RES-005I 1322.73-1323.23	N	<1	<10	10.9	--	207	1.1 D3	<0.01 D3	<0.005 D3	<0.08 D3	<0.05 D3	0.71 D3	<0.003 D3	30 D3	--
	RES-005I 1353-1353.49	N	<1	<10	10.7	<30 D1	293	0.8 D3	<0.01 D3	0.006 D3	<0.08 D3	<0.05 D3	1.26 D3	<0.003 D3	46 D3	<30 D1
		FD	<1	<10	10.4	<30 D1	143	1.1 D3	<0.01 D3	0.005 D3	<0.08 D3	<0.05 D3	0.45 D3	<0.003 D3	17 D3	<30 D1
	RES-005I 1370.93-1374	N	2	495 B7	6.6	<30 D1	35	<0.8 D3	<0.01 D3	0.005 D3	0.16 D3	<0.05 D3	0.14 FD3	<0.003 D3	5 D3	<30 D1
	RES-005I 1380-1383	N	<1	217 B7	6.7	<30 D1	49	<0.8 D3	<0.01 D3	0.009 D3	0.09 D3	<0.05 D3	<0.3 D3	<0.003 D3	4 FD3	<30 D1
	RES-005I 1389-1391.57	N	<1	117 B7	6.6	<30 D1	42	<0.8 D3	<0.01 D3	0.016 D3	<0.08 D3	<0.05 D3	0.37 D3	<0.003 D3	3 FD3	<30 D1
	RES-005I 1396.3-1399.3	N	<1	8 FB7	7.7	<30 D1	42	<0.8 D3	<0.01 D3	0.009 D3	<0.08 D3	<0.05 D3	0.1 FD3	<0.003 D3	4 FD3	<30 D1
	RES-005I 1405-1406.67	N	<1	165 B7	6.9	<30 D1	44	<0.8 D3	<0.01 D3	0.008 D3	0.42 D3	<0.05 D3	<0.3 D3	<0.003 D3	4 FD3	<30 D1
	RES-005I 1410.18-1413.18	N	<1	20 B4	7.3	<30 D1	30	<0.8 D3	<0.01 D3	0.01 D3	0.76 D3	<0.05 D3	<0.3 D3	<0.003 D3	<5 D3	<30 D1
	RES-005I 1419.18-1422.18	N	<1	12 B4	7.2	<30 D1	31	<0.8 D3	0.003 FD3	0.015 D3	0.63 D3	<0.05 D3	<0.3 D3	<0.003 D3	<5 D3	<30 D1
		FD	<1	8 FB4	7.5	--	28	<0.8 D3	0.003 FD3	0.015 D3	0.61 D3	<0.05 D3	0.14 FD3	<0.003 D3	<5 D3	--
	RES-005I 1428.18-1431.18	N	1	117 B7	6.7	<30 D1	23	<0.8 D3	<0.01 D3	0.008 D3	0.67 D3	<0.05 D3	0.08 FD3	<0.003 D3	<5 D3	<30 D1
	RES-005I 1437.13-1440.13	N	2	165 B7	6.8	<30 D1	32	<0.8 D3	<0.01 D3	0.005 D3	0.59 D3	<0.05 D3	<0.3 D3	<0.003 D3	<5 D3	<30 D1
	RES-005I 1446.13-1449.13	N	<1	595 B7	7.6	<30 D1	22	<0.8 D3	<0.01 D3	0.004 FD3	0.74 D3	<0.05 D3	0.09 FD3	<0.003 D3	<5 D3	<30 D1
	RES-005I 1455.13-1458.13	N	<1	81 B4	6.8	<30 D1	42	<0.8 D3	<0.01 D3	0.009 D3	<0.08 D3	<0.05 D3	0.06 FD3	<0.003 D3	<5 D3	<30 D1
	RES-005I 1464.13-1467.13	N	1	551 B7	6.6	<3	30	<0.8 D3	<0.01 D3	0.004 FD3	0.03 FD3	<0.05 D3	0.33 D	<0.003 D3	2 FD3	<3
	RES-005I 1473.13-1476.13	N	2	350 B7	6.6	<30 D1	40	<0.8 D3	<0.01 D3	0.005 D3	1.24 D3	<0.05 D3	<0.3 D3	<0.003 D3	2 FD3	<30 D1
	RES-005I 1481-1482.66	N	2	245 B7	6.5	<30 D1	24	<0.8 D3	<0.01 D3	0.009 D3	<0.08 D3	<0.05 D3	<0.3 D3	<0.003 D3	<5 D3	<30 D1
		FD	2	503 B7	6.2	<30 D1	20	<0.8 D3	<0.01 D3	0.009 D3	<0.08 D3	<0.05 D3	0.15 FD3	<0.003 D3	<5 D3	<30 D1
	RES-005I 1487.1-1490.1	N	3	740 B7	6.3	<30 D2	23	<0.8 D2	0.002 FD2	<0.005 D2	1.08 D2	<0.05 D2	0.05 FD2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1490.1-1493.1	N	4	766 B7	6.2	<30 D2	10	<0.8 D2	<0.01 D2	0.004 FD2	0.51 D2	<0.05 D2	0.07 FD2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1499-1502	N	4	766 B7	6.3	<30 D2	21	<0.8 D2	<0.01 D2	0.004 FD2	<0.08 D2	<0.05 D2	0.07 FD2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1506.56-1509.47	N	6	828 B7	6.2	<30 D2	13	<0.8 D2	<0.01 D2	0.004 FD2	<0.08 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1515.47-1518.47	N	7	822 B7	6	<30 D2	24	<0.8 D2	<0.01 D2	<0.005 D2	0.08 D2	<0.05 D2	<0.3 D2	<0.003 D2	1 FD2	<30 D2
	RES-005I 1524.47-1527.47	N	<1	603 B7	6.6	<30 D2	16	<0.8 D2	<0.01 D2	0.005 D2	0.18 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2

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RES-005I	RES-005I 1532.98-1534.97	N	4	374 B7	6.2	<30 D2	23	<0.8 D2	<0.01 D2	0.004 FD2	0.05 FD2	<0.05 D2	0.15 FD2	<0.003 D2	1 FD2	<30 D2
	RES-005I 1544-1546.55	N	6	585 B7	5.9	<30 D2	17	<0.8 D2	<0.01 D2	0.004 FD2	0.05 FD2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1552.55-1555.58	N	4	601 B7	6.2	<30 D2	5 F	<0.8 D2	<0.01 D2	0.003 FD2	0.02 FD2	<0.05 D2	0.11 FD2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1559.46-1562.46	N	5	820 B7	6.1	<30 D2	8 F	<0.8 D2	<0.01 D2	0.005 D2	<0.08 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1568.46-1571.46	N	6	844 B7	6.1	<30 D2	11	<0.8 D2	<0.01 D3	0.003 FD2	<0.08 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1577.46-1580.46	N	6	686 B7	5.8	<30 D2	12	<0.8 D2	<0.01 D2	0.005 D2	0.02 FD2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
		FD	4	599 B7	6	<30 D2	12	0.2 FD2	<0.01 D2	0.005 D2	0.03 FD2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1586.46-1589.46	N	6	706 B7	6.1	<30 D2	23	<0.8 D2	<0.01 D2	<0.005 D2	0.08 D2	<0.05 D2	0.12 FD2	<0.003 D2	1 FD2	<30 D2
	RES-005I 1595.46-1598.46	N	6	862 B7	6.1	<30 D2	18	<0.8 D2	<0.01 D2	0.003 FD2	<0.08 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1604.46-1607.46	N	6	659 B7	6.1	<30 D2	24	<0.8 D2	<0.01 D2	<0.005 D2	0.05 FD2	<0.05 D2	<0.3 D2	<0.003 D2	2 FD2	<30 D2
	RES-005I 1613.46-1616.46	N	7	710 B7	5.7	<50 D2	15	<0.8 D2	<0.01 D2	<0.005 D2	0.08 D2	<0.05 D2	0.11 FD2	<0.003 D2	<5 D2	<50 D2
	RES-005I 1616.46-1619	N	7	848 B7	6.1	<30 D2	10	<0.8 D2	<0.01 D2	<0.005 D2	<0.08 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1626.54-1627.16	N	1	99 B7	6.6	<30 D2	21	<0.8 D2	<0.01 D2	0.013 D2	0.42 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1627.16-1630	N	3	219 B7	6.1	<30 D2	17	<0.8 D2	<0.01 D2	0.008 D2	0.2 D2	<0.05 D2	<0.3 D2	<0.003 D2	<5 D2	<30 D2
	RES-005I 1632.56-1635.56	N	7	446	5.6	778 D1	2040	9.8 D3	<0.02 D2	<0.02 D2	0.05 FD3	<0.05 D3	<0.3 D3	0.002 FD2	1 FD3	<30 D1
	RES-005I 1638.37-1641	N	47	442	2.3	793 D1	2110	10.3 D3	<0.002	0.0017 F	0.06 FD3	<0.05 D3	0.06 FD3	0.0028	2 FD3	<30 D1
	RES-005I 1645.84-1648.08	N	49	80	2.3	183 D1	385	6.1 D3	<0.002	0.015	0.09 D3	<0.05 D3	<0.3 D3	0.0017	2 FD3	<30 D1
	RES-005I 1652-1654.93	N	9	523	3.2	875 D1	2500	10.1 D3	<0.002	0.0058	0.06 FD3	<0.05 D3	<0.3 D3	0.001	2 FD3	<30 D1
	RES-005I 1654.93-1657.3	N	56	297	2.2	505 D1	1070	7 D3	<0.002	0.0101	0.05 FD3	<0.05 D3	<0.3 D3	0.0023	4 FD3	<30 D1
	RES-005I 1677.8-1680.8	N	34	189	2.8	391 D1	698	4 D3	<0.002	0.0023	0.06 FD3	<0.05 D3	<0.3 D3	0.0046	<5 D3	<30 D1
	RES-005I 1695.23-1697.23	N	21	137	3	205 D1	375	1.7 D3	<0.002	0.0009 F	0.06 FD3	<0.05 D3	<0.3 D3	0.0043	1 FD3	<30 D1
	RES-005I 1711.23-1713.23	N	14	233	4.7	378 D1	583	5.5 D3	<0.002	0.0013 F	0.05 FD3	<0.05 D3	<0.3 D3	0.0007	4 FD3	<30 D1
	RES-005I 1727.23-1729.23	N	25	157	3.8	277 D1	499	5 D3	<0.002	0.0062	0.06 FD3	<0.05 D3	<0.3 D3	0.0008	5 D3	<30 D1
		FD	8	145	3.3	269 D1	489	4.8 D3	<0.02 D2	0.006 FD2	0.06 FD3	<0.05 D3	<0.3 D3	<0.005 D2	4 FD3	<30 D1
	RES-005I 1743.23-1745.23	N	16	237	3.4	428 D1	657	16.9 D3	<0.02 D2	<0.02 D2	0.05 FD3	<0.05 D3	<0.3 D3	<0.005 D2	<5 D3	<30 D1
	RES-005I 1759.23-1761.23	N	26	410	3.8	706 D1	1060	34.7 D3	<0.002	0.0021	0.07 FD3	<0.05 D3	<0.3 D3	0.002	1 FD3	<30 D1
	RES-005I 1775.23-1778.23	N	56	277	3.2	503 D1	1020	11.6 D3	<0.002	0.0017 F	0.03 FD3	<0.05 D3	<0.3 D3	0.0013	2 FD3	<30 D1
	RES-005I 1794.36-1796.3	N	32	273	2.8	466 D1	882	9 D3	<0.002	0.0016 F	0.04 FD3	<0.05 D3	<0.3 D3	0.0017	<5 D3	<30 D1
	RES-005I 1811.3-1814.3	N	32	362	2.9	645 D1	1370	6.1 D3	<0.002	0.0048	0.04 FD3	<0.05 D3	<0.3 D3	0.0154	1 FD3	<30 D1
	RES-005I 1830.5-1831.5	N	41	362	2.6	625 D1	1420	5.8 D3	<0.002	0.0048	0.04 FD3	<0.05 D3	<0.3 D3	0.0143	1 FD3	<30 D1
	RES-005I 1835.3-1838.3	N	41	378	2.6	642 D1	1520	10.9 D3	<0.002	0.0019 F	0.04 FD3	<0.05 D3	<0.3 D3	0.0149	1 FD3	<30 D1
	RES-005I 1855.91-1858.91	N	44	322	2.5	559 D1	1280	11.6 D3	<0.002	0.0012 F	0.04 FD3	<0.05 D3	<0.3 D3	0.0225	3 FD3	<30 D1
	RES-005I 1872.9-1875.38	N	35	358	2.6	655 D1	1440	9.1 D3	<0.002	0.0016 F	0.04 FD3	<0.05 D3	<0.3 D3	0.011	2 FD3	<30 D1
	RES-005I 1875.38-1878.2	N	39	509 B7	2.6	676 D1	1750	5.4 D3	<0.01 D3	<0.01 D3	0.04 FD3	<0.05 D3	<0.3 D3	0.0167 D3	2 FD3	<30 D1
	RES-005I 1884-1887	N	44	395	2.5	674 D1	1500	9.8 D3	<0.02 D3	<0.02 D3	0.44 D3	<0.05 D3	<0.3 D3	0.001 FD3	9 D3	<30 D1
	RES-005I 1895-1897.06	N	42	342 B7	2.7	555 D1	1410	7.7 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	0.021 D3	4 FD3	<30 D1
	RES-005I 1901.49-1902.36	N	34	429 B7	2.7	691 D1	1860	8.2 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	0.0026 FD3	4 FD3	<30 D1
	RES-005I 1917.29-1919.1	N	45	348 B7	2.5	614 D1	1430	10.9 D3	<0.01 D3	<0.01 D3	0.07 FD3	<0.05 D3	<0.3 D3	0.0019 FD3	8 D3	<30 D1
	RES-005I 1923.1-1925.3	N	36	576 B7	2.7	868 D1	1970	14 D3	<0.01 D3	<0.01 D3	0.09 D3	<0.05 D3	<0.3 D3	0.0105 D3	8 D3	<30 D1
	RES-005I 1955.06-1958.06	N	52	131 B4	2.6	359 D1	649	3.5 D3	<0.01 D3	<0.01 D3	0.15 D3	<0.05 D3	<0.3 D3	0.0027 FD3	10 D3	<30 D1
		FD	13	134 B4	3.6	333 D1	660	3.3 D3	<0.01 D3	<0.01 D3	0.15 D3	<0.05 D3	<0.3 D3	0.0023 FD3	10 D3	<30 D1
	RES-005I 1979.06-1982.06	N	16	107 B4	3.6	338 D1	670	3.3 D3	<0.01 D3	<0.01 D3	0.18 D3	<0.05 D3	<0.3 D3	<0.003 D3	18 D3	<30 D1

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	ACZS Net Acid Generation KG H2SO4/T	Acidity as CaCO3 MG/L	pH after Oxidation PH UNITS	Sulfate (as SO4) MG/L	Conductivity at 25 degrees C UMHOS/CM	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L
RES-005I	RES-005I 2008.11-2011.11	N	9	221 B4	3.9	533 D1	1110	1.5 D3	<0.01 D3	<0.01 D3	0.23 D3	<0.05 D3	<0.3 D3	0.0011 FD3	38 D3	<30 D1
	RES-005I 2032.11-2035.11	N	10	452 B7	3.9	775 D1	1400	11 D3	<0.02 D3	<0.02 D3	0.18 D3	<0.05 D3	<0.3 D3	0.002 FD3	17 D3	<30 D1
	RES-005I 2049.84-2052.84	N	47	281 B4	2.9	459 D1	1060	8.5 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	0.0017 FD3	3 FD3	<30 D1
	RES-005I 2061.84-2064.84	N	29	308 B7	2.9	551 D1	1360	9.9 D3	<0.01 D3	<0.01 D3	0.45 D3	<0.05 D3	<0.3 D3	0.0019 FD3	4 FD3	<30 D1
RES-005J	RES-005J 1660.4-1668.47	N	31	312 B7	2.7	423 D1	823	5.2 D3	<0.01 D3	0.003 FD3	0.73 D3	<0.05 D3	<0.3 D3	0.0063 D3	2 FD3	<30 D1
RES-006D	RES-006D 1247.48-1250.48	N	22	16 B4	3.2	178 D1	298	<0.8 D3	<0.02 D3	<0.02 D3	0.03 FD3	<0.05 D3	<0.3 D3	0.012 D3	32 D3	<30 D1
	RES-006D 1405.47-1408.44	N	7	197 B4	5.3	429 D1	885	15.1 D3	<0.01 D3	<0.01 D3	0.09 D3	<0.05 D3	<0.3 D3	0.0013 FD3	17 D3	<30 D1
	RES-006D 1450.44-1453.44	N	16	784 B7	2.7	1470 D1	2560	28 D3	<0.01 D3	<0.01 D3	0.1 D3	<0.05 D3	<0.3 D3	0.0011 FD3	68 D3	<30 D1
	RES-006D 1495.44-1498.44	N	66	503 B7	2.4	955 D1	1600	26.5 D3	<0.01 D3	<0.01 D3	0.07 FD3	<0.05 D3	<0.3 D3	0.0211 D3	9 D3	<30 D1
	RES-006D 1532.81-1535.81	N	55	631 B7	2.6	985 D1	2080	28.7 D3	<0.01 D3	<0.01 D3	0.11 D3	<0.05 D3	<0.3 D3	0.0005 FD3	25 D3	<30 D1
	RES-006D 1577.43-1580.43	N	65	354 B7	2.4	727 D1	1290	21.1 D3	<0.01 D3	<0.01 D3	0.16 D3	0.01 FD3	0.24 FD3	0.0009 FD3	48 D3	<30 D1
		FD	33	338 B7	2.8	684 D1	1230	19.8 D3	<0.01 D3	<0.01 D3	0.17 D3	<0.05 D3	<0.3 D3	0.0006 FD3	33 D3	<30 D1
	RES-006D 1622.43-1625.43	N	39	543 B7	2.7	902 D1	1960	19.2 D3	<0.01 D3	<0.01 D3	0.11 D3	<0.05 D3	0.12 FD3	0.0005 FD3	14 D3	<30 D1
	RES-006D 1667.43-1670.43	N	54	683 B7	2.5	1310 D1	2900	15.3 D3	<0.01 D3	<0.01 D3	0.04 FD3	<0.05 D3	<0.3 D3	<0.003 D3	21 D3	<30 D1
	RES-006D 1705.4-1708.4	N	66	1050 B7	2.2	1870 D1	4060	17.5 D3	<0.01 D3	0.003 FD3	<0.08 D3	<0.05 D3	0.36 D3	<0.003 D3	17 D3	<50 D1
	RES-006D 1750.4-1753.4	N	90	1620	2.2	2650 D1	5020	8.7 D3	<0.01 D3	0.004 FD3	<0.08 D3	<0.05 D3	<0.3 D3	0.0005 FD3	5 D3	20 FD1
	RES-006D 1798.4-1801.4	N	156	1130	2	1980 D1	4080	10.4 D3	<0.02 D3	<0.02 D3	<0.08 D3	<0.05 D3	<0.3 D3	<0.005 D3	11 D3	30 FD1
	RES-006D 1843.4-1846.4	N	113	1480	2	2860 D1	5170	8.5 D3	<0.01 D3	0.003 FD3	<0.08 D3	<0.05 D3	<0.3 D3	0.0006 FD3	4 FD3	20 FD1
	RES-006D 1898.21-1901.09	N	143	695	2	1100 D1	2850	12.8 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	<0.003 D3	14 D3	24 FD1
	RES-006D 1927.23-1930.23	N	71	426	2.2	690 D1	1610	8.6 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	0.0268 D3	6 D3	23 FD1
		FD	51	438	2.5	708 D1	1760	9.1 D3	<0.01 D3	0.004 FD3	0.04 FD3	<0.05 D3	<0.3 D3	0.0289 D3	8 D3	24 FD1
	RES-006D 1952.56-1954.83	N	44	434	2.5	759 D1	2230	4 D3	<0.01 D3	<0.01 D3	0.03 FD3	<0.05 D3	0.1 FD3	<0.003 D3	2 FD3	26 FD1
	RES-006D 1954.83-197	N	45	432 B7	2.2	678 D1	1960	8.7 D3	<0.01 D3	<0.01 D3	0.06 FD3	<0.05 D3	0.11 FD3	0.0012 FD3	5 D3	<30 D1
	RES-006D 1980.6-1983.6	N	34	909	2.5	1520 D1	3240	7.7 D3	<0.01 D3	<0.01 D3	0.03 FD3	<0.05 D3	0.07 FD3	0.0295 D3	8 D3	20 FD1
	RES-006D 1995.6-1998.6	N	84	864	2.2	1300 D1	2390	14.1 D3	<0.01 D3	<0.01 D3	<0.08 D3	<0.05 D3	0.21 FD3	0.0024 FD3	19 D3	25 FD1
	RES-006D 2022.66-2025.66	N	89	603	2.5	894 D1	1870	8.7 D3	<0.01 D3	0.004 FD3	<0.08 D3	<0.05 D3	<0.3 D3	0.0023 FD3	13 D3	23 FD1
	RES-006D 2040.66-2043.66	N	65	503	2.5	782 D1	1490	10.2 D3	<0.02 D3	<0.02 D3	<0.08 D3	<0.05 D3	0.09 FD3	0.005 D3	17 D3	24 FD1
	RES-006D 2058.16-2061.16	N	53	221	2.7	695 D1	1110	4.5 D3	<0.01 D3	0.003 FD3	0.07 FD3	<0.05 D3	<0.3 D3	0.0012 FD3	34 D3	23 FD1
	RES-006D 2073.13-2076.13	N	19	478	4.6	918 D1	<10	7.2 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	0.0044 D3	22 D3	23 FD1
		FD	51	458	2.9	926 D1	1410	6.4 D3	<0.01 D3	0.004 FD3	0.07 FD3	<0.05 D3	0.08 FD3	0.0044 D3	20 D3	25 FD1
	RES-006D 2091.13-2094.13	N	48	342	2.9	710 D1	1030	5.4 D3	<0.01 D3	<0.01 D3	0.06 FD3	<0.05 D3	0.09 FD3	0.0019 FD3	22 D3	26 FD1
	RES-006D 2115.47-2118.47	N	32	474	3.6	578 D1	1350	7.6 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	0.0098 D3	17 D3	23 FD1
	RES-006D 2125.45-2128.42	N	36	398	2.7	666 D1	1420	21.3 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	<0.003 D3	34 D3	25 FD1
	RES-006D 2137.08-2138.5	N	39	736	2.6	1160 D1	2840	11.7 D3	<0.01 D3	<0.01 D3	0.05 FD3	<0.05 D3	<0.3 D3	<0.003 D3	9 D3	23 FD1
RES-009	RES-009 1012.16-1014.16	N	73	77 B4	2.3	<30 D1	108	<0.8 D3	<0.002	0.008	<0.08 D3	<0.05 D3	0.06 FD3	<0.0005	9 D3	<30 D1
	RES-009 1027.38-1030.3	N	<1	<10 B4	9.7	<30 D1	121	0.9 D3	<0.002	0.0077	<0.08 D3	<0.05 D3	<0.3 D3	<0.0005	13 D3	<30 D1
	RES-009 1045.3-1048.3	N	<1	44 B4	9.7	222 D1	451	1.1 D3	<0.002	<0.001	0.06 FD3	<0.05 D3	<0.3 D3	0.0003 F	11 D3	<30 D1
	RES-009 105.16-105.73	N	3	4 F	5	<30 D3	48	0.4 FD3	<0.002	0.0007 F	<0.08 D3	<0.05 D3	0.06 FD3	<0.0005	2 FD3	<30 D1
	RES-009 1063.3-1066.3	N	<1	44 B4	8.8	231 D1	464	1 D3	<0.002	<0.001	0.04 FD3	<0.05 D3	0.07 FD3	0.0007	14 D3	<30 D1
	RES-009 1081.3-1084.3	N	5	52 B4	4.8	246 D1	451	3.3 D3	<0.002	<0.001	0.26 D3	<0.05 D3	0.06 FD3	0.0748	14 D3	<30 D1
	RES-009 1098.34-1100.96	N	6	97 B4	4.3	352 D1	535	12.7 D3	<0.002	<0.001	0.07 FD3	<0.05 D3	<0.3 D3	0.0138	19 D3	<30 D1
	RES-009 199.18-199.78	N	17	157	3.9	<30 D3	58	<0.8 D3	0.0004 F	<0.001	<0.08 D3	<0.05 D3	<0.3 D3	<0.0005	2 FD3	<30 D1

B7 Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
D3 Sample dilution due to insufficient sample.
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V5 Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	ACZS Net Acid Generation KG H2SO4/T	Acidity as CaCO3 MG/L	pH after Oxidation PH UNITS	Sulfate (as SO4) MG/L	Conductivity at 25 degrees C UMHOS/CM	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L
RES-009		FD	<1	193	7.6	<30 D1	53	<0.8 D3	0.006 F	0.009 F	<0.08 D3	<0.05 D3	0.06 FD3	<0.0005	3 FD3	<30 D1
	RES-009 281.14-281.64	N	2	4 FB4	6.6	<30 D1	76	<0.8 D3	<0.002	0.0008 F	<0.08 D3	<0.05 D3	<0.3 D3	<0.0005	5 D3	<30 D1
	RES-009 348.3-348.83	N	<1	410 B4	8	<30 D1	48	<0.8 D3	<0.02 D3	<0.01 D3	<0.08 D3	<0.05 D3	0.07 FD3	<0.005 D3	2 FD3	<30 D1
	RES-009 447.23-447.8	N	6	<10 B4	6.2	<30 D1	411	<0.8 D3	<0.002	0.0018	<0.08 D3	<0.05 D3	0.07 FD3	<0.0005	69 D3	<30 D1
	RES-009 485.12-485.71	N	<1	<10 B4	9.1	<30 D1M2	461	<0.8 D3M1	<0.002	0.0018	0.05 FD3	<0.05 D3	<0.3 D3	<0.0005	86 D3	<30 D1
	RES-009 557.06-557.56	N	<1	157 B4	9.1	<30 D1	79	<0.8 D3	0.0006 F	0.005	<0.08 D3	<0.05 D3	0.14 FD3	<0.0005	<5 D3	<30 D1
	RES-009 647.52-648.1	N	<1	<10 B4	7.2	<30 D1	479	1.4 D3	0.0005 F	0.0006 F	<0.08 D3	<0.05 D3	0.25 FD3	<0.0005	50 D3	<30 D1
	RES-009 7.43-7.96	N	<1	8 F	9.7	<30 D3	46	0.3 FD3	<0.002	<0.001	<0.08 D3	<0.05 D3	<0.3 D3	<0.0005	<5 D3	<30 D1
	RES-009 718-718.58	N	<1	422 B4	8.5	<30 D1	35	<0.8 D3	<0.002	0.0014	<0.08 D3	<0.05 D3	0.07 FD3	<0.0005	<5 D3	<30 D1
		FD	4	507 B4	6.7	<30 D1	32	<0.8 D3	<0.002	<0.001	<0.08 D3	<0.05 D3	0.12 FD3	<0.0005	1 FD3	<30 D1
	RES-009 810.42-810.98	N	<1	<10 B4	11.3	<30 D1	417	1.3 D3	<0.002	<0.001	<0.08 D3	<0.05 D3	0.19 FD3	<0.0005	52 D3	<30 D1
	RES-009 906.08-906.58	N	<1	<10 B4	11.5	<30 D1	553	1.6 D3	<0.02 D3	<0.01 D3	0.03 FD3	<0.05 D3	0.13 FD3	<0.005 D3	59 D3	<30 D1
	RES-009 987.9-988.45	N	<1	<10 B4	10.8	<30 D1	145	0.8 D3	0.0006 F	0.0145	<0.08 D3	<0.05 D3	<0.3 D3	<0.0005	17 D3	<30 D1
	RES-009 994.67-997.67	N	<1	161 B4	8.4	<30 D1	130	0.8 D3	<0.002	0.0071	0.07 FD3	<0.05 D3	<0.3 D3	<0.0005	7 D3	<30 D1
RES-009D	RES-009D 1119.32-1122.42	N	13	92 B4	3.1	334 D1	686	4.4 D3	<0.002	0.0017	0.08 D3	<0.05 D3	<0.3 D3	0.0315	16 D3	<30 D1
		FD	16	113	3	550 D2	872	5.3 D3	<0.002	0.0019	0.08 D3	<0.05 D3	<0.3 D3	0.0428	23 D3	<300 D1
	RES-009D 1128.62-1131.72	N	14	173	3.1	440 D2	975	7.4 D3	<0.002	0.0019	0.07 FD3	<0.05 D3	0.25 FD3	0.0203	19 D3	<300 D1
RES-009E	RES-009E 1307.1-1310.1	N	71	732	2.3	1590 D2	2710	11.2 D3	<0.02 D2	<0.01 D2	0.05 FD3	<0.05 D3	0.32 D3	0.002 FD2	4 FD3	<300 D1
	RES-009E 1319.1-1322.1	N	47	430	2.4	1260 D2	2140	12 D3	<0.002	0.0014	0.05 FD3	<0.05 D3	0.29 FD3	0.0048	2 FD3	<300 D1
	RES-009E 1335.41-1338.16	N	88	896	2.1	2150 D2	4400	15 D3	0.0006 F	0.0023	0.06 FD3	<0.05 D3	<0.3 D3	0.0007	5 D3	<300 D1
	RES-009E 1351.03-1354.03	N	57	511	2.4	1600 D2	2330	14 D3	<0.002	0.0012	0.04 FD3	<0.05 D3	<0.05 D3	0.0011	<5 D3	<300 D1
	RES-009E 1368.07-1370.69	N	146	1460	2	3220 D2	4820	11.5 D3	<0.002	0.0025	<0.08 D3	<0.05 D3	<0.3 D3	0.0002 F	1 FD3	<300 D1
	RES-009E 1385.61-1388.61	N	176	1250	2	3430 D2	4820	10.3 D3	<0.002	0.0017	<0.08 D3	<0.05 D3	<0.3 D3	0.0043	2 FD3	<300 D1
	RES-009E 1402.22-1404.53	N	64	623	2.3	2470 D2	2900	9.6 D3	<0.002	0.0021	0.04 FD3	<0.05 D3	<0.3 D3	0.0005	<5 D3	<300 D1
		FD	61	583	2.3	1290 D2	2750	8.4 D3	<0.002	0.0014	0.04 FD3	<0.05 D3	<0.3 D3	0.0005	3 FD3	<300 D1
	RES-009E 1418.16-1419.8	N	65	647	2.4	1430 D2	2770	14.5 D3	<0.02 D2	<0.01 D2	0.04 FD3	<0.05 D3	0.12 FD3	<0.005 D2	2 FD3	<300 D1
	RES-009E 1431.42-1433.8	N	45	434	2.6	860 D2	1710	9.2 D3	<0.002	0.0028	0.04 FD3	<0.05 D3	0.07 FD3	0.0022	3 FD3	<300 D1
	RES-009E 1446.41-1449.41	N	79	776	2.3	1740 D2	3040	17 D3	<0.002	0.0039	<0.08 D3	<0.05 D3	<0.3 D3	0.0068	1 FD3	<300 D1
	RES-009E 1464.41-1467.41	N	79	748	2.3	1820 D2	3210	14.9 D3	<0.002	0.0013	<0.08 D3	<0.05 D3	<0.3 D3	0.0028	3 FD3	<300 D1
	RES-009E 1478.13-1481.13	N	68	659	2.4	1620 D2	2500	16.1 D3	<0.002	0.0047	0.02 FD3	<0.05 D3	<0.3 D3	0.0048	2 FD3	<300 D1
	RES-009E 1496.13-1499.13	N	68	752	2.4	1480 D2	2760	16.7 D3	<0.002	0.0008 F	<0.08 D3	<0.05 D3	<0.3 D3	0.002	4 FD3	<300 D1
	RES-009E 1510.74-1527.19	N	97	1010	2.1	1460 D1	4180	12.6 D3	<0.01 D3	<0.01 D3	<0.08 D3	<0.05 D3	<0.3 D3	0.0022 FD3	8 D3	20 FD1
	RES-009E 1514.13-1517.13	N	91	917	2.2	2100 D2	3370	16.8 D3	<0.002	0.001	<0.08 D3	<0.05 D3	<0.3 D3	0.0005	2 FD3	<300 D1
	RES-009E 1532.4-1534.49	N	74	812	2.2	1810 D2	3330	9.4 D3	<0.002	0.0013	<0.08 D3	<0.05 D3	0.06 FD3	0.0039	4 FD3	<300 D1
		FD	72	792	2.3	1790 D2	3360	9.7 D3	<0.002	0.0012	<0.08 D3	<0.05 D3	<0.3 D3	0.0041	5 D3	<300 D1
	RES-009E 1547.47-1550.47	N	59	611	2.4	1560 D2	2440	10.6 D3	<0.002	0.0017	<0.08 D3	<0.05 D3	0.09 FD3	0.0693	8 D3	<300 D1
	RES-009E 1565.47-1568-47	N	147	1450	2	2690 D1	4840	10.5 D3	<0.002	0.0025	<0.08 D3	<0.05 D3	<0.3 D3	0.0038	1 FD3	<50 D1
	RES-009E 1597.32-1599.88	N	143	1420	2.1	2900 D1	4860	7.6 D3	0.0004 F	0.0095	<0.08 D3	<0.05 D3	<0.3 D3	0.0005	6 D3	<100 D1
	RES-009E 1602.44-1605	N	117	1170	2.1	2210 D1	4200	11 D3	<0.02 D3	<0.01 D3	<0.08 D3	<0.05 D3	<0.3 D3	<0.005 D3	<5 D3	<50 D1
	RES-009E 1617.38-1619-.14	N	46	426	2.4	800 D1	2070	11.8 D3	<0.002	0.0006 F	0.03 FD3	<0.05 D3	<0.3 D3	0.0033	14 D3	<30 D1
	RES-009E 1634.46-1637.47	N	50	490	2.4	858 D1	2180	7.7 D3	<0.002	0.0007 F	<0.08 D3	<0.05 D3	<0.3 D3	0.0014	5 D3	<30 D1
	RES-009E 1650.14-1652.81	N	59	527	2.5	996 D1	2130	6.9 D3	<0.002	0.0014	<0.08 D3	<0.05 D3	<0.3 D3	0.0009	5 D3	<30 D1

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	ACZS Net Acid Generation KG H2SO4/T	Acidity as CaCO3 MG/L	pH after Oxidation PH UNITS	Sulfate (as SO4) MG/L	Conductivity at 25 degrees C UMHOS/CM	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L
RES-009E		FD	59	551	2.5	931 D1	2100	7.2 D3	<0.002	0.0011	<0.08 D3	<0.05 D3	<0.3 D3	0.0009	5 D3	<30 D1
	RES-009E 1669.07-1672.07	N	43	410	2.6	749 D1	1620	8 D3	<0.002	0.0018	0.03 FD3	<0.05 D3	<0.3 D3	0.0077	2 FD3	<30 D1
	RES-009E 1685.09-1687-47	N	19	173	3.2	315 D1M1	591	5 D3	<0.002	0.0029	0.04 FD3	<0.05 D3	<0.3 D3	0.0017	<5 D3	<30 D1
	RES-009E 1697.61-1700.61	N	55	470	2.4	771 D1	2060	16 D3	<0.002	0.0009 F	0.03 FD3	<0.05 D3	<0.3 D3	0.0011	2 FD3	<30 D1
	RES-009E 1718.61-1721.61	N	42	390	2.5	604 D1	1770	11.1 D3	<0.02 D3	0.009 FD3	0.06 FD3	<0.05 D3	<0.3 D3	0.008 D3	<5 D3	<30 D1
	RES-009E 1739.63-1742.63	N	31	285	2.7	531 D1	1320	7.3 D3	<0.002	0.0011	<0.08 D3	<0.05 D3	<0.3 D3	0.0017	5 D3	<30 D1
	RES-009E 1760.86-1763.86	N	29	241	2.7	433 D1	1140	5.7 D3	<0.002	0.0043	<0.08 D3	<0.05 D3	<0.3 D3	0.0077	3 FD3	<30 D1
		FD	26	245	2.7	503 D1	1240	5.8 D3	<0.002	0.0051	<0.08 D3	<0.05 D3	<0.3 D3	0.0077	4 FD3	<30 D1
	RES-009E 1789.83-1792.31	N	36	334	2.7	578 D1	1340	12.2 D3	<0.002	0.0023	0.02 FD3	<0.05 D3	<0.3 D3	0.0084	24 D3	<30 D1
	RES-009E 1798.16-1799.79	N	43	310	3.2	492 D1	868	9.4 D3	<0.002	0.002	<0.08 D3	<0.05 D3	<0.3 D3	0.115	7 D3	<30 D1
	RES-009E 1801.42-1804.15	N	68	619	2.6	978 D1	2180	9.7 D3	<0.002	0.0021	<0.08 D3	<0.05 D3	<0.3 D3	0.0063	7 D3	<30 D1
	RES-009E 1818.62-1821.62	N	71	639	2.6	954 D1	2090	28.1 D3	<0.002	0.0015	<0.08 D3	<0.05 D3	<0.3 D3	0.0011	54 D3	<30 D1
	RES-009E 1829.95-1832.48	N	95	872	2.6	1740 D1	2600	14.7 D3	<0.002	0.0042	<0.08 D3	<0.05 D3	<0.3 D3	0.005	31 D3	<30 D1
	RES-009E 1846.66-1849.66	N	71	704	3	1640 D1	2200	31.5 D3	<0.002	0.003	0.03 FD3	0.01 FD3	<0.3 D3	0.0455	162 D3	<30 D1
	RES-009E 1862.15-1865.15	N	<1	<10	10.8	350 D1	697	1.4 D3	<0.01 D3	0.003 FD3	<0.08 D3	<0.05 D3	0.19 FD3	0.0006 FD3	168 D3	<30 D1
	RES-009E 1867.87-1884.35	N	<1	27 B4	10.3	434 D1	842	0.8 D3	<0.01 D3	<0.01 D3	0.96 D3	<0.05 D3	<0.3 D3	<0.003 D3	163 D3	<30 D1
	RES-009E 1880.15-1882.37	N	<1	<10	10.5	417 D1	<10	<0.8 D3	<0.01 D3	0.003 FD3	0.02 FD3	<0.05 D3	<0.3 D3	<0.003 D3	163 D3	<30 D1
		FD	<1	16 B4	9.7	529 D1	779	0.5 FD3	<0.01 D3	0.004 FD3	<0.08 D3	<0.05 D3	0.08 FD3	<0.003 D3	182 D3	<30 D1
	RES-009E 1899-1901.88	N	33	270 B7	4.3	990 D1	1340	6.2 D3	<0.01 D3	0.005 FD3	0.1 D3	<0.05 D3	<0.3 D3	0.0042 D3	254 D3	<30 D1
	RES-009E 1929.76-1932.58	N	40	265 B7	4.5	1180 D1	1460	1.7 D3	<0.01 D3	0.004 FD3	0.03 FD3	<0.05 D3	<0.3 D3	0.0298 D3	299 D3	<30 D1
	RES-009E 1947.67-1950.67	N	<1	12 B4	8.6	335 D1	691	0.3 FD3	<0.01 D3	<0.01 D3	<0.08 D3	<0.05 D3	<0.3 D3	<0.003 D3	133 D3	22 FD1
	RES-009E 1954.6-1956	N	<1	<10	8.1	387 D1	618	0.3 FD3	<0.01 D3	<0.01 D3	<0.08 D3	<0.05 D3	<0.3 D3	<0.003 D3	136 D3	<30 D1
	RES-009E 1967.76-1969.72	N	26	245 B7	3.1	433 D1	771	6.1 D3	<0.01 D3	<0.01 D3	0.1 D3	<0.05 D3	<0.3 D3	0.0006 FD3	12 D3	<30 D1
	RES-009E 1974.78-1977.89	N	<1	<10	11.2	235 D1	705	0.3 FD3	<0.01 D3	<0.01 D3	<0.08 D3	<0.05 D3	0.18 FD3	<0.003 D3	130 D3	<30 D1
	RES-009E 1984.74-1987.74	N	25	237 B4	4.5	529 D1	725	0.8 D3	<0.01 D3	<0.01 D3	<0.08 D3	<0.05 D3	<0.3 D3	0.0022 FD3	88 D3	<30 D1
	RES-009E 2056.38-2075	N	28	305 B7	2.9	1340 D1	2330	6.8 D3	<0.01 D3	<0.01 D3	0.06 FD3	<0.05 D3	<0.3 D3	<0.003 D3	250 D3	<50 D1

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
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V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L
RES-001C	RES-001C 1502-1505	N	0.08 FD3	0.09 FD3	23.6 D3	<5 D1	20.7 D3	0.0129	1 FD3	0.13 D3	<0.01 D3	<0.3 D3	<0.3 D3	10 D3	0.0115	23 D3	<0.1 D3
	RES-001C 1530-1533	N	0.07 FD3	0.09 FD3	16.1 D3	4 FD1	35.4 D3	0.057 D3	4 FD3	0.74 D3	<0.01 D3	<0.3 D3	0.07 FD3	13 D3	0.016 D3	29 D3	<0.1 D3
	RES-001C 1557-1560	N	0.14 FD3	0.12 FD3	8.86 D3	6 D1	59.1 D3	0.0185	4 FD3	2.12 D3	<0.01 D3	<0.3 D3	0.09 FD3	12 D3	0.0274	31 D3	<0.1 D3
	RES-001C 1584-1587	N	<0.3 D3	0.14 FD3	6.36 D3	4 FD1	31 D3	0.0134	6 D3	2.55 D3	<0.01 D3	<0.3 D3	0.11 FD3	16 D3	0.0215	44 D3	<0.1 D3
		FD	0.07 FD3	0.15 FD3	6.7 D3	4 FD1	36.1 D3	0.0142	6 D3	2.76 D3	<0.01 D3	<0.3 D3	0.1 FD3	17 D3	0.0239	49 D3	<0.1 D3
	RES-001C 1611-1614	N	<0.3 D3	0.13 FD3	27.1 D3	2 FD1	11.8 D3	0.369	3 FD3	4.03 D3	<0.01 D3	<0.3 D3	<0.3 D3	13 D3	0.0208	27 D3	<0.1 D3
	RES-001C 1639-1642	N	<0.3 D3	0.08 FD3	8.8 D3	<5 D1	0.1 FD3	0.303	2 FD3	8.88 D3	<0.01 D3	0.09 FD3	<0.3 D3	9 D3	0.0115	17 D3	0.13 D3
	RES-001C 1666-1669	N	<0.3 D3	<0.3 D3	<0.3 D3	1 FD1	<0.3 D3	0.0006	<5 D3	0.96 D3	<0.01 D3	0.42 D3	<0.3 D3	7 FD3	0.0095	8 FD3	<0.1 D3
	RES-001C 1693-1696	N	<0.3 D3	0.07 FD3	15.1 D3	5 D1	<0.3 D3	0.197	2 FD3	4.8 D3	<0.01 D3	0.25 FD3	0.05 FD3	10 D3	0.0143	19 D3	<0.1 D3
	RES-001C 1711-1714.96	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0015	<5 D3	<0.1 D3	<0.01 D3	0.34 D3	<0.3 D3	8 D3	0.0083	13 D3	<0.1 D3
	RES-001C 1745-1748	N	<0.3 D3	0.11 FD3	8.51 D3	7 D1	2.5 D3	0.0059	5 D3	1.08 D3	<0.01 D3	0.12 FD3	<0.3 D3	20 D3	0.0165	28 D3	<0.1 D3
	RES-001C 1771.75-1791.4	N	<0.3 D3	<0.3 D3	0.3 D3	<5 D1	0.3 D3	0.0016 FD3	<5 D3	0.42 D3	<0.001	1.81 D3	<0.3 D3	6 FD3	0.0144 D3	32 D3	<0.1 D3
	RES-001C 1781-1784	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	10 D3	<0.1 D3	<0.005 D3	0.55 D3	<0.3 D3	8 D3	0.0183 D3	24 D3	<0.1 D3
	RES-001C 1799-1802	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0003 F	5 D3	<0.1 D3	<0.005 D3	3.33 D3	<0.3 D3	2 FD3	0.0252	4 FD3	<0.1 D3
		FD	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0007	5 D3	<0.1 D3	<0.005 D3	3.37 D3	<0.3 D3	<8 D3	0.025	4 FD3	<0.1 D3
	RES-001C 1814-1817	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0004 F	3 FD3	<0.1 D3	<0.005 D3	0.98 D3	<0.3 D3	10 D3	0.0182	19 D3	<0.1 D3M2
	RES-001C 1837-1840	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0003 F	<5 D3	<0.1 D3	<0.005 D3	0.88 D3	<0.3 D3	9 D3	0.0218	12 D3	<0.1 D3
	RES-001C 1855-1858	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0011	1 FD3	<0.1 D3	<0.005 D3	0.33 D3	<0.3 D3	2 FD3	0.0143	10 D3	<0.1 D3
	RES-001C 1873-1876	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0002 F	4 FD3	<0.1 D3	<0.005 D3	0.55 D3	<0.3 D3	13 D3	0.0258	8 FD3	<0.1 D3
	RES-001C 1892.5-1895	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0002 F	7 D3	<0.1 D3	<0.005 D3	0.98 D3	<0.3 D3	13 D3	0.0222	8 FD3	<0.1 D3
	RES-001C 1934-1937	N	0.06 FD3	<0.3 D3	77.3 D3	<5 D1	41.7 D3	0.0131	<5 D3	0.36 D3	<0.005 D3	0.09 FD3	0.07 FD3	2 FD3	0.0551	6 FD3	<0.1 D3
	RES-001C 1987-1990	N	<0.3 D3	0.08 FD3	120 D3	<5 D1	21 D3	0.0028	8 D3	1.83 D3	<0.005 D3	0.09 FD3	0.07 FD3	20 D3	0.0619	25 D3	<0.1 D3
	RES-001C 2007-2010	N	<0.3 D3	<0.3 D3	0.08 FD3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.005 D3	1.51 D3	<0.3 D3	18 D3	0.0348 D3	4 FD3	<0.1 D3
		FD	<0.3 D3	<0.3 D3	0.07 FD3	<5 D1	<0.3 D3	0.0002 F	1 FD3	<0.1 D3	<0.005 D3	1.59 D3	<0.3 D3	18 D3	0.0325	3 FD3	<0.1 D3
	RES-001C 2041-2044	N	<0.3 D3	<0.3 D3	0.07 FD3	<5 D1	<0.3 D3	0.0003 F	2 FD3	<0.1 D3	<0.005 D3	1.42 D3	<0.3 D3	21 D3	0.0302	4 FD3	<0.1 D3
	RES-001C 2115-2118	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.0005	6 D3	<0.1 D3	<0.005 D3	4.99 D3	<0.3 D3	13 D3	0.0331	5 FD3	<0.1 D3
	RES-001C 2164.4-2166.3	N	1.07 D3	0.44 D3	101 D3	9 D1	571 D3	0.0023	3 FD3	0.42 D3	<0.005 D3	<0.3 D3	0.1 FD3	<8 D3	0.0496	28 D3	<0.1 D3
	RES-001C 2214-2215	N	<0.3 D3	<0.3 D3	213 D3	<5 D1	37.5 D3	0.0018	6 D3	0.79 D3	<0.005 D3	<0.3 D3	<0.3 D3	<8 D3	0.063	14 D3	<0.1 D3M2
	RES-001C 2242-2244	N	<0.3 D3	0.1 FD3	163 D3	15 D1	46.3 D3	0.0029	7 D3	0.52 D3	<0.005 D3	<0.3 D3	<0.3 D3	8 D3	0.0705	22 D3	<0.1 D3
RES-002A	RES-002A 1007-1010	N	<0.3 D4	<0.3 D4	0.11 FD4	<5 D4	<0.3 D4	0.0008	<5 D4	<0.1 D4	<0.01 D4	<0.3 D4	<0.3 D4	5 FD4	0.0601 B7	12 D4	<0.1 D4
	RES-002A 1058-1061	N	<0.3 D4	0.06 FD4	13.5 D4	<5 D4	15.2 D4	0.0006	<5 D4	0.05 FD4	<0.01 D4	<0.3 D4	<0.3 D4	7 FD4	0.0466 B7	8 FD4	<0.1 D4
	RES-002A 1109-1112	N	<0.3 D4	<0.3 D4	15.4 D4M3	<5 D4M1	24.9 D4M3	0.0022	<5 D4	0.04 FD4	<0.01 D4	<0.3 D4	<0.3 D4	8 D4	0.0351 D4B7	7 FD4	<0.1 D4
	RES-002A 1154-1156	N	<0.3 D4	<0.3 D4	27.5 D4	<5 D4	32.6 D4	0.0011	<5 D4	0.3 D4	<0.01 D4	<0.3 D4	<0.3 D4	6 FD4	0.0332 B7	9 FD4	<0.1 D4
	RES-002A 1201-1203	N	0.14 FD4	<0.3 D4	45.2 D4	<5 D4	160 D4	0.0119	<5 D4	0.11 D4	<0.01 D4	<0.3 D4	<0.3 D4	<8 D4	0.0207	9 FD4	0.2 D4
		FD	0.08 FD4	<0.3 D4	43.3 D4	<5 D4	131 D4M3	0.0062	<5 D4	0.09 FD4	<0.01 D4	<0.3 D4	<0.3 D4	<8 D4	0.0239	3 FD4	0.21 D4
	RES-002A 1246-1249	N	0.18 FD4	<0.3 D4	35.9 D4	<5 D4	45.8 D4	0.0903	<5 D4	0.09 FD4	<0.01 D4	<0.3 D4	<0.3 D4	3 FD4	0.0156	12 D4	<0.1 D4
	RES-002A 1291-1292	N	0.39 D4	<0.3 D4	14.8 D4	<5 D4	63 D4	0.0024	<5 D4	0.11 D4	<0.01 D4	<0.3 D4	<0.3 D4	<8 D4	0.025	8 FD4	<0.1 D4
	RES-002A 1325-1328	N	0.17 FD4	<0.3 D4	49.7 D4	<5 D4	68.6 D4	0.002	<5 D4	0.09 FD4	<0.01 D4	<0.3 D4	<0.3 D4	2 FD4	0.0232	8 FD4	<0.1 D4
	RES-002A 1363-1366	N	0.14 FD4	<0.3 D4	37.9 D4	<5 D4	51 D4	0.0075	<5 D4	0.09 FD4	<0.01 D4	<0.3 D4	<0.3 D4	3 FD4	0.0235	11 D4	<0.1 D4
	RES-002A 1395-1397	N	0.51 D4	<0.3 D4	26.8 D4	<5 D4	134 D4	0.0025	<5 D4	0.12 D4	<0.01 D4	<0.3 D4	<0.3 D4	<8 D4	0.0375	5 FD4	<0.1 D4
	RES-002A 1414.6-1417	N	0.43 D4	<0.3 D4	21.1 D4	<5 D4	94.2 D4	0.0003 F	<5 D4	0.26 D4	<0.01 D4	<0.3 D4	<0.3 D4	4 FD4	0.0286	7 FD4	0.13 D4
	RES-002A 1454-1457	N	<0.3 D4	<0.3 D4	159 D4	<5 D4	29.3 D4	0.0002 F	<5 D4	0.24 D4	<0.01 D4	<0.3 D4	<0.3 D4	6 FD4	0.0295	11 D4	<0.1 D4

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L
RES-002A	RES-002A 1538-1541	N	<0.3 D4	<0.3 D4	147 D4	3 FD4	30.1 D4	0.0003 F	<5 D4	0.04 FD4	<0.01 D4	<0.3 D4	<0.3 D4	6 FD4	0.0892	8 FD4	<0.1 D4
	RES-002A 1583-1586	N	<0.3 D3	0.05 FD3	190 D3M3	<5 D1	41.6 D3	0.0005	<5 D3	0.16 D3	<0.01 D3	0.07 FD3	0.05 FD3	4 FD3	0.114	8 FD3	<0.1 D3
	RES-002A 1627-1630	N	<0.3 D3	0.07 FD3	89 D3	<5 D1	31.4 D3	0.001 FD3	<5 D3	0.23 D3	<0.01 D3	0.08 FD3	<0.3 D3	5 FD3	0.051 D3	8 FD3	<0.1 D3
	RES-002A 1732-1735	N	<0.3 D3	0.08 FD3	105 D3	5 D1	20.1 D3	0.0005	4 FD3	3.29 D3	<0.01 D3	<0.3 D3	0.07 FD3	17 D3	0.0622	15 D3	<0.1 D3
	RES-002A 1755-1756	N	<0.3 D3	0.09 FD3	109 D3	5 D1	24.5 D3	0.0004 F	4 FD3	3.36 D3	<0.01 D3	<0.3 D3	<0.3 D3	19 D3	0.0647	17 D3	0.11 D3
	RES-002A 1781-1784	N	<0.3 D3	0.1 FD3	16.5 D3	<5 D1	53.9 D3	0.0006	<5 D3	0.28 D3	<0.01 D3	0.08 FD3	<0.3 D3	4 FD3	0.0292	7 FD3	0.11 D3
	RES-002A 1814-1817	N	0.19 FD3	0.08 FD3	15.5 D3	3 FD1	50.9 D3	0.0002 F	<5 D3	0.19 D3	<0.01 D3	0.08 FD3	<0.3 D3	4 FD3	0.0247	7 FD3	<0.1 D3
	RES-002A 1876-1879	N	<0.3 D3	0.08 FD3	184 D3	3 FD1	42.2 D3	0.0002 F	7 D3	0.7 D3	<0.01 D3	<0.3 D3	0.12 FD3	13 D3	0.0791	12 D3	<0.1 D3
	RES-002A 1927-1930	N	<0.3 D3	0.07 FD3	116 D3	5 D1	13.1 D3	0.0002 F	6 D3	0.45 D3	<0.01 D3	<0.3 D3	<0.3 D3	30 D3	0.0917	18 D3	<0.1 D3
	RES-002A 1981-1984	N	<0.3 D3	0.06 FD3	132 D3	<5 D1	13.6 D3	0.0006	7 D3	1.19 D3	<0.01 D3	<0.3 D3	0.06 FD3	27 D3	0.0467	18 D3	<0.1 D3
	RES-002A 858-861	N	<0.3 D4	<0.3 D4	0.07 FD4	<5 D4M2	0.1 FD4	<0.0005	<5 D4	<0.1 D4	<0.05 D4	<0.3 D4	<0.3 D4	7 FD4	0.0032	17 D4	0.06 FD4
	RES-002A 888-891	N	0.05 FD4	<0.3 D4	<0.3 D4	<5 D4	<0.3 D4	<0.0005	<5 D4	<0.1 D4	<0.01 D4	<0.3 D4	<0.3 D4	5 FD4	0.12 D4	10 D4	<0.1 D4
	RES-002A 927-930	N	<0.3 D4	<0.3 D4	<0.3 D4	<5 D4	0.1 FD4	<0.0005	<5 D4	<0.1 D4	<0.01 D4	<0.3 D4	<0.3 D4	7 FD4	0.012 D4	13 D4	<0.1 D4
	RES-002A 965-968	N	<0.3 D4	<0.3 D4	64.6 D4	<5 D4	<0.3 D4	0.0003 F	<5 D4	<0.1 D4	<0.01 D4	<0.3 D4	<0.3 D4	6 FD4	0.0096 B7	9 FD4	<0.1 D4
	RES-002A 992-995	N	<0.3 D4	<0.3 D4	0.05 FD4	<5 D4	<0.3 D4	<0.0005	<5 D4	<0.1 D4	<0.05 D4	<0.3 D4	<0.3 D4	3 FD4	0.084 B7	9 FD4	<0.1 D4
		FD	<0.3 D4	<0.3 D4	0.06 FD4	<5 D4	<0.3 D4	0.0002 F	<5 D4	<0.1 D4	<0.05 D4	<0.3 D4	<0.3 D4	4 FD4	0.0814 B7	9 FD4	<0.1 D4
RES-005I	RES-005I 1011.88-1012.45	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0008 FD3	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	9 D3	0.0017 FD3	29 D3	0.05 FD3
	RES-005I 1322.73-1323.23	N	<0.3 D3	<0.3 D3	<0.3 D3	--	<0.3 D3	0.0007 FD3	<5 D3	<0.1 D3	<0.002 D3	<0.3 D3	<0.3 D3	9 D3	0.0014 FD3	30 D3	<0.1 D3
	RES-005I 1353-1353.49	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0017 FD3	<5 D3	<0.1 D3	<0.002 D3	<0.3 D3	<0.3 D3	14 D3	0.0025 FD3	41 D3	<0.1 D3
		FD	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0011 FD3	<5 D3	<0.1 D3	<0.002 D3	<0.3 D3	<0.3 D3	11 D3	0.0029 FD3	26 D3	<0.1 D3
	RES-005I 1370.93-1374	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	10 D3	0.0603 D3	20 D3	0.06 FD3
	RES-005I 1380-1383	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	6 FD3	0.142 D3	19 D3	<0.1 D3
	RES-005I 1389-1391.57	N	<0.3 D3	<0.3 D3	<0.3 D3	2 FD1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	2 FD3	0.388 D3	16 D3	<0.1 D3
	RES-005I 1396.3-1399.3	N	<0.3 D3	<0.3 D3	<0.3 D3	4 FD1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.002 D3	<0.3 D3	<0.3 D3	<8 D3	0.124 D3	14 D3	<0.1 D3
	RES-005I 1405-1406.67	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0006 FD3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	3 FD3	0.158 D3	12 D3	0.07 FD3
	RES-005I 1410.18-1413.18	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0007 FD3	<5 D3	<0.1 D3	<0.02 D3	<0.3 D3	<0.3 D3	2 FD3	0.221 D3	11 D3	<0.1 D3
	RES-005I 1419.18-1422.18	N	0.08 FD3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.002 D3	<0.3 D3	<0.3 D3	<8 D3	0.163 D3	8 FD3	<0.1 D3
		FD	0.08 FD3	<0.3 D3	<0.3 D3	--	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.02 D3	<0.3 D3	<0.3 D3	<8 D3	0.172 D3	8 FD3	<0.1 D3
	RES-005I 1428.18-1431.18	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	<8 D3	0.059 D3	4 FD3	<0.1 D3
	RES-005I 1437.13-1440.13	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	0.1 FD3	0.0016 FD3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	4 FD3	0.0616 D3	11 D3	0.08 FD3
	RES-005I 1446.13-1449.13	N	<0.3 D3M1	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3M1	<0.05 D3M2	<0.3 D3	<0.3 D3	5 FD3	0.0752 D3	9 FD3	0.1 D3M2
	RES-005I 1455.13-1458.13	N	<0.3 D3	<0.3 D3	<0.3 D3	1 FD1	<0.3 D3	0.0011 FD3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	9 D3	0.138 D3	22 D3	0.13 D3
	RES-005I 1464.13-1467.13	N	<0.3 D3	<0.3 D3	<0.3 D3	<0.5	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	8 D3	0.0841 D3	23 D3	0.21 D3
	RES-005I 1473.13-1476.13	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	7 FD3	0.0608 D3	19 D3	<0.1 D3
	RES-005I 1481-1482.66	N	0.11 FD3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	4 FD3	0.0525 D3	13 D3	<0.1 D3
		FD	0.11 FD3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	4 FD3	0.0631 D3	12 D3	0.07 FD3
	RES-005I 1487.1-1490.1	N	<0.3 D2	<0.3 D2	<0.3 D2	3 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2M2	<0.3 D2	<0.3 D2	9 D2	0.0214 D2	10 D2	0.05 FD2
	RES-005I 1490.1-1493.1	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	9 D2	0.0308 D2	12 D2	<0.1 D2
	RES-005I 1499-1502	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	9 D2	0.0267 D2	17 D2	<0.1 D2
	RES-005I 1506.56-1509.47	N	<0.3 D2	<0.3 D2	<0.3 D2	1 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	9 D2	0.0511 D2	17 D2	<0.1 D2
	RES-005I 1515.47-1518.47	N	<0.3 D2	<0.3 D2	<0.3 D2	1 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	10 D2	0.0353 D2	15 D2	0.13 D2
	RES-005I 1524.47-1527.47	N	<0.3 D2	<0.3 D2	<0.3 D2	1 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	10 D2	0.0471 D2	12 D2	<0.1 D2

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L
RES-005I	RES-005I 1532.98-1534.97	N	<0.3 D2	<0.3 D2	<0.3 D2	1 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	10 D2	0.0083 D2	22 D2	<0.1 D2
	RES-005I 1544-1546.55	N	<0.3 D2	<0.3 D2	<0.3 D2	1 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	6 FD2	0.0427 D2	14 D2	0.14 D2
	RES-005I 1552.55-1555.58	N	<0.3 D2	<0.3 D2	<0.3 D2	1 FD2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	7 FD2	0.0419 D2	19 D2	<0.1 D2
	RES-005I 1559.46-1562.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	9 D2	0.0547 D2	15 D2	<0.1 D2
	RES-005I 1568.46-1571.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2M2	<0.3 D2	<0.3 D2	8 D2	0.0776 D2	10 D2	0.09 FD2
	RES-005I 1577.46-1580.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	4 FD2	0.0627 D2	6 FD2	<0.1 D2
		FD	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	4 FD2	0.0679 D2	8 FD2	<0.1 D2
	RES-005I 1586.46-1589.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	11 D2	0.0395 D2	21 D2	<0.1 D2
	RES-005I 1595.46-1598.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	10 D2	0.0362 D2	13 D2	<0.1 D2
	RES-005I 1604.46-1607.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	11 D2	0.0466 D2	22 D2	<0.1 D2
	RES-005I 1613.46-1616.46	N	<0.3 D2	<0.3 D2	<0.3 D2	<10 D2M2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	5 FD2	0.0373 D2	9 FD2	<0.1 D2
	RES-005I 1616.46-1619	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	10 D2	0.0326 D2	15 D2	<0.1 D2
	RES-005I 1626.54-1627.16	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	4 FD2	0.148 D2	9 FD2	<0.1 D2
	RES-005I 1627.16-1630	N	<0.3 D2	<0.3 D2	<0.3 D2	<5 D2	<0.3 D2	<0.003 D2	<5 D2	<0.1 D2	<0.05 D2	<0.3 D2	<0.3 D2	5 FD2	0.0709 D2	11 D2	<0.1 D2
	RES-005I 1632.56-1635.56	N	<0.3 D3	0.05 FD3	23.3 D3	<5 D1	47.2 D3	<0.005 D2	<5 D3	0.12 D3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.054 D2	14 D3	<0.1 D3
	RES-005I 1638.37-1641	N	<0.3 D3	0.1 FD3	30.2 D3	<5 D1	55 D3	0.0001 F	<5 D3	0.1 D3	<0.001	<0.3 D3	<0.3 D3	10 D3	0.0576	15 D3	0.12 D3
	RES-005I 1645.84-1648.08	N	<0.3 D3	<0.3 D3	11 D3	1 FD1	2.1 D3	0.0006	<5 D3	0.11 D3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.475 D2	11 D3	<0.1 D3
	RES-005I 1652-1654.93	N	<0.3 D3	0.13 FD3	17.1 D3	<5 D1	69.2 D3	0.0014	<5 D3	0.19 D3	<0.001	<0.3 D3	<0.3 D3	10 D3	0.211	14 D3	<0.1 D3
	RES-005I 1654.93-1657.3	N	<0.3 D3	0.07 FD3	90.7 D3	3 FD1	29.8 D3	0.0016	<5 D3	0.18 D3	<0.001	<0.3 D3	<0.3 D3	7 FD3	0.352	11 D3	<0.1 D3
	RES-005I 1677.8-1680.8	N	<0.3 D3	0.06 FD3	80 D3M3	<5 D1M1	7.8 D3M1	0.0006	<5 D3	0.03 FD3	<0.001	<0.3 D3	<0.3 D3	6 FD3	0.0503	10 D3	<0.1 D3
	RES-005I 1695.23-1697.23	N	<0.3 D3	<0.3 D3	79.4 D3	<5 D1	1.7 D3	0.0002 F	<5 D3	0.06 FD3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.019	12 D3	<0.1 D3
	RES-005I 1711.23-1713.23	N	<0.3 D3	0.09 FD3	134 D3	<5 D1	4.4 D3	0.0001 F	<5 D3	0.1 D3	<0.001	<0.3 D3	<0.3 D3	13 D3	0.034	16 D3	<0.1 D3
	RES-005I 1727.23-1729.23	N	<0.3 D3	0.06 FD3	73.7 D3	4 FD1	4.7 D3	0.0003 F	<5 D3	0.03 FD3	<0.001	<0.3 D3	<0.3 D3	7 FD3	0.0187	11 D3	<0.1 D3
		FD	<0.3 D3	<0.3 D3	70.5 D3M3	3 FD1	3.7 D3	<0.005 D2	<5 D3	<0.1 D3	<0.002 D1	<0.3 D3	<0.3 D3	7 FD3	0.02 FD2	10 D3	<0.1 D3
	RES-005I 1743.23-1745.23	N	<0.3 D3	0.06 FD3	92 D3	<5 D1	5.3 D3	<0.005 D2	2 FD3	0.03 FD3	<0.001	0.1 FD3	<0.3 D3	39 D3	0.0328 D2	43 D3	<0.1 D3
	RES-005I 1759.23-1761.23	N	<0.3 D3	<0.3 D3	108 D3	3 FD1	21.7 D3	0.0002 F	3 FD3	0.07 FD3	<0.001	<0.3 D3	0.08 FD3	44 D3	0.0548	66 D3	<0.1 D3
	RES-005I 1775.23-1778.23	N	<0.3 D3	<0.3 D3	58.9 D3	<5 D1	29 D3	0.0016	<5 D3	0.23 D3	<0.001	<0.3 D3	<0.3 D3	12 D3	0.0287	19 D3	<0.1 D3
	RES-005I 1794.36-1796.3	N	<0.3 D3	<0.3 D3	79.5 D3	<5 D1	29.4 D3	0.168	<5 D3	0.18 D3	<0.001	0.07 FD3	<0.3 D3	9 D3	0.0298	14 D3	<0.1 D3
	RES-005I 1811.3-1814.3	N	<0.3 D3	<0.3 D3	108 D3	<5 D1	35.8 D3	0.0002 F	<5 D3	<0.1 D3	<0.001	<0.3 D3	<0.3 D3	7 FD3	0.07	11 D3	<0.1 D3
	RES-005I 1830.5-1831.5	N	<0.3 D3	<0.3 D3	104 D3	<5 D1	31.7 D3	0.0003 F	<5 D3	<0.1 D3	<0.001	<0.3 D3	<0.3 D3	7 FD3	0.0668	11 D3	<0.1 D3
	RES-005I 1835.3-1838.3	N	<0.3 D3	<0.3 D3	68.3 D3	<5 D1	42.2 D3	0.0002 F	<5 D3	0.31 D3	<0.001	<0.3 D3	<0.3 D3	10 D3	0.0488	22 D3	<0.1 D3
	RES-005I 1855.91-1858.91	N	<0.3 D3	0.06 FD3	50.8 D3	<5 D1	22.8 D3	0.0001 F	<5 D3	0.2 D3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.0346	22 D3	<0.1 D3
	RES-005I 1872.9-1875.38	N	<0.3 D3	0.08 FD3	77.2 D3	<5 D1	36.7 D3	0.0028	<5 D3	0.34 D3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.0465	22 D3	<0.1 D3
	RES-005I 1875.38-187	N	<0.3 D3	0.11 FD3	108 D3M3	<5 D1M1	30.7 D3M3	0.0007 FD3	<5 D3	0.05 FD3	<0.002 D1	0.09 FD3	<0.3 D3	4 FD3	0.0527 D3	8 FD3	<0.1 D3
	RES-005I 1884-1887	N	<0.3 D3	0.16 FD3	99.5 D3	<5 D1	33.6 D3	0.001 FD3	3 FD3	0.26 D3	<0.001	0.11 FD3	0.06 FD3	19 D3	0.051 D3	18 D3	0.37 D3
	RES-005I 1895-1897.0	N	<0.3 D3	0.27 FD3	60 D3	<5 D1	21.8 D3	0.0019 FD3	<5 D3	0.22 D3	<0.001	<0.3 D3	0.19 FD3	7 FD3	0.0386 D3	13 D3	<0.1 D3
	RES-005I 1901.49-190	N	<0.3 D3	0.21 FD3	61.1 D3	<5 D1	37.5 D3	0.0006 FD3	<5 D3	0.26 D3	<0.001	0.08 FD3	0.08 FD3	7 FD3	0.0414 D3	13 D3	0.13 D3
	RES-005I 1917.29-191	N	<0.3 D3	0.14 FD3	70.6 D3	<5 D1	17.3 D3	0.001 FD3	6 D3	0.22 D3	<0.001	0.09 FD3	0.07 FD3	28 D3	0.0545 D3	28 D3	0.17 D3
	RES-005I 1923.1-1925	N	<0.3 D3	0.16 FD3	109 D3	<5 D1	37.9 D3	0.0216 D3	7 D3	0.48 D3	<0.001	0.09 FD3	0.05 FD3	30 D3	0.0629 D3	31 D3	<0.1 D3
	RES-005I 1955.06-195	N	<0.3 D3	0.11 FD3	47.7 D3	<5 D1	1.1 D3	0.0039 D3	6 D3	1.13 D3	<0.001	0.52 D3	0.05 FD3	37 D3	0.0333 D3	31 D3	0.09 FD3
		FD	<0.3 D3	0.11 FD3	46.4 D3	<5 D1	3.1 D3	0.0043 D3	6 D3	1.18 D3	<0.001	0.51 D3	<0.3 D3	35 D3	0.0324 D3	30 D3	<0.1 D3
	RES-005I 1979.06-198	N	<0.3 D3	0.14 FD3	35.6 D3	<5 D1	1.3 D3	0.0006 FD3	8 D3	1.79 D3	<0.001	0.34 D3	<0.3 D3	38 D3	0.0292 D3	39 D3	0.16 D3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L
RES-005I	RES-005I 2008.11-201	N	<0.3 D3	0.1 FD3	83.7 D3	<5 D1	1.6 D3	0.0021 FD3	9 D3	1.86 D3	<0.001	0.09 FD3	<0.3 D3	31 D3	0.0493 D3	42 D3	0.08 FD3
	RES-005I 2032.11-203	N	<0.3 D3	0.09 FD3	161 D3M3	<5 D1	25 D3	0.002 FD3	8 D3	1.96 D3	<0.002 D1	0.09 FD3	<0.3 D3	28 D3	0.072 D3	31 D3	0.27 D3M2
	RES-005I 2049.84-205	N	<0.3 D3	0.06 FD3	83.8 D3	<5 D1	7.9 D3	0.0037 D3	1 FD3	0.17 D3	<0.001	0.08 FD3	<0.3 D3	15 D3	0.0499 D3	15 D3	<0.1 D3
	RES-005I 2061.84-206	N	<0.3 D3	0.11 FD3	49.3 D3	<5 D1	22.8 D3	0.0028 FD3	1 FD3	0.19 D3	<0.001	0.09 FD3	<0.3 D3	13 D3	0.0323 D3	16 D3	<0.1 D3
RES-005J	RES-005J 1660.4-1668	N	<0.3 D3	0.13 FD3	87.6 D3	<5 D1	9.5 D3	<0.003 D3	<5 D3	0.06 FD3	<0.001	0.08 FD3	<0.3 D3	9 D3	0.0256 D3	15 D3	<0.1 D3
RES-006D	RES-006D 1247.48-1250.48	N	<0.3 D3	0.09 FD3	1.22 D3	<5 D1	<0.3 D3	<0.005 D3	10 D3	3.25 D3	<0.002 D2	<0.3 D3	<0.3 D3	6 FD3	0.003 FD3	37 D3	0.17 D3
	RES-006D 1405.47-1408.44	N	<0.3 D3	0.07 FD3	9.3 D3	<5 D1	9 D3	0.0056 D3	8 D3	2.76 D3	<0.001	<0.3 D3	<0.3 D3	15 D3	0.0043 D3	33 D3	<0.1 D3
	RES-006D 1450.44-1453.44	N	0.06 FD3	0.17 FD3	55.6 D3	7 D1	165 D3	0.0118 D3	19 D3	8.08 D3	<0.001	0.1 FD3	0.05 FD3	21 D3	0.0052 D3	107 D3	<0.1 D3
	RES-006D 1495.44-1498.44	N	<0.3 D3	0.12 FD3	67.9 D3	<5 D1	51.8 D3	0.0269 D3	22 D3	2.11 D3	<0.001	<0.3 D3	<0.3 D3	17 D3	0.0049 D3	64 D3	<0.1 D3
	RES-006D 1532.81-1535.81	N	<0.3 D3	0.08 FD3	33.8 D3	9 D1	119 D3	0.0136 D3	13 D3	1.4 D3	<0.001	<0.3 D3	<0.3 D3	22 D3	0.0063 D3	94 D3	<0.1 D3
	RES-006D 1577.43-1580.43	N	<0.3 D3	0.14 FD3	45.3 D3M3	<5 D1M1	61.1 D3M3	0.006 D3	14 D3	6.9 D3	<0.001	<0.3 D3	<0.3 D3	29 D3	0.0076 D3	98 D3	<0.1 D3
		FD	<0.3 D3	0.11 FD3	36.6 D3	<5 D1	31.7 D3	0.0036 D3	10 D3	5.21 D3	<0.001	<0.3 D3	<0.3 D3	22 D3	0.0064 D3	57 D3	<0.1 D3
	RES-006D 1622.43-1625.43	N	<0.3 D3	0.07 FD3	37 D3	1 FD1	92.3 D3	0.004 D3	11 D3	1.58 D3	<0.001	<0.3 D3	0.05 FD3	22 D3	0.0083 D3	71 D3	0.29 D3
	RES-006D 1667.43-1670.43	N	0.33 D3	0.12 FD3	10.8 D3	3 FD1	102 D3M3	<0.003 D3	3 FD3	0.14 D3	<0.001	<0.3 D3	<0.3 D3	12 D3	0.018 D3	41 D3	0.44 D3
	RES-006D 1705.4-1708.4	N	1.03 D3	0.11 FD3	17.9 D3	4 FD1	275 D3	<0.003 D3	6 D3	0.2 D3	<0.001	0.11 FD3	0.05 FD3	7 FD3	0.0303 D3	42 D3	<0.1 D3
	RES-006D 1750.4-1753.4	N	0.36 D3	0.17 FD3	3.56 D3	<10 D1	333 D3	0.0006 FD3	1 FD3	0.06 FD3	<0.002 D2	0.17 FD3	<0.3 D3	<8 D3	0.0667 D3	10 D3	<0.1 D3
	RES-006D 1798.4-1801.4	N	0.53 D3	0.14 FD3	11.3 D3	5 FD1	227 D3	0.001 FD3	2 FD3	0.08 FD3	<0.001	0.1 FD3	0.07 FD3	2 FD3	0.057 D3	16 D3	<0.1 D3
	RES-006D 1843.4-1846.4	N	0.68 D3	0.76 D3	5.76 D3	<10 D1	301 D3	0.0006 FD3	<5 D3	0.08 FD3	<0.001	0.28 FD3	0.12 FD3	<8 D3	0.0738 D3	12 D3	<0.1 D3
	RES-006D 1898.21-1901.09	N	<0.3 D3	0.27 FD3	17 D3	12 D1	104 D3	0.0012 FD3	<5 D3	0.32 D3	<0.001	<0.3 D3	0.05 FD3	6 FD3	0.0498 D3	19 D3	<0.1 D3
	RES-006D 1927.23-1930.23	N	0.13 FD3	0.1 FD3	59.9 D3	5 D1	45.8 D3	0.0123 D3	<5 D3	0.05 FD3	<0.001	<0.3 D3	<0.3 D3	3 FD3	0.0286 D3	11 D3	<0.1 D3
		FD	0.1 FD3	0.12 FD3	60.3 D3	5 D1	46.9 D3	0.0112 D3	<5 D3	0.06 FD3	<0.001	<0.3 D3	<0.3 D3	3 FD3	0.0281 D3	14 D3	<0.1 D3
	RES-006D 1952.56-1954.83	N	<0.3 D3	0.11 FD3	5.14 D3	<5 D1	48.2 D3	0.0953 D3	<5 D3	0.37 D3	<0.001	<0.3 D3	0.07 FD3	3 FD3	0.0261 D3	10 D3	<0.1 D3
	RES-006D 1954.83-197	N	0.1 FD3	0.11 FD3	39.8 D3	2 FD1	49.6 D3	0.241 D3	<5 D3	0.07 FD3	<0.001	0.08 FD3	<0.3 D3	6 FD3	0.032 D3	17 D3	<0.1 D3
	RES-006D 1980.6-1983.6	N	<0.3 D3	0.26 FD3	33.9 D3	3 FD1	202 D3	0.0005 FD3	<5 D3	0.59 D3	<0.001	<0.3 D3	0.09 FD3	<8 D3	0.0498 D3	13 D3	<0.1 D3
	RES-006D 1995.6-1998.6	N	<0.3 D3	0.25 FD3	249 D3	16 D1	122 D3	0.0007 FD3	<5 D3	0.46 D3	<0.001	0.07 FD3	0.11 FD3	<8 D3	0.113 D3	27 D3	<0.1 D3
	RES-006D 2022.66-2025.66	N	<0.3 D3	0.19 FD3	109 D3	7 D1	130 D3	<0.003 D3	<5 D3	0.41 D3	<0.001	0.89 D3	0.14 FD3	4 FD3	0.104 D3	13 D3	<0.1 D3
	RES-006D 2040.66-2043.66	N	<0.3 D3	0.15 FD3	151 D3	4 FD1	50.6 D3	<0.005 D3	5 D3	0.82 D3	<0.002 D2	<0.3 D3	0.13 FD3	10 D3	0.098 D3	21 D3	<0.1 D3
	RES-006D 2058.16-2061.16	N	<0.3 D3	0.11 FD3	114 D3	5 D1	5.9 D3	0.0018 FD3	68 D3	1.04 D3	<0.001	<0.3 D3	0.13 FD3	25 D3	0.0826 D3	30 D3	<0.1 D3
	RES-006D 2073.13-2076.13	N	<0.3 D3	0.14 FD3	198 D3	7 D1	33.8 D3	0.0035 D3	48 D3	1.61 D3	<0.001	<0.3 D3	0.15 FD3	21 D3	0.12 D3	20 D3	<0.1 D3
		FD	<0.3 D3	0.1 FD3	185 D3	7 D1	32.4 D3	0.0049 D3	40 D3	1.37 D3	<0.001	<0.3 D3	0.14 FD3	18 D3	0.107 D3	17 D3	<0.1 D3
	RES-006D 2091.13-2094.13	N	<0.3 D3	0.07 FD3	184 D3	<5 D1	13.6 D3	0.0118 D3	31 D3	1.01 D3	<0.001	<0.3 D3	0.09 FD3	31 D3	0.0992 D3	31 D3	<0.1 D3
	RES-006D 2115.47-2118.47	N	0.07 FD3	<0.3 D3	69.7 D3	18 D1	48.6 D3	0.0294 D3	<5 D3	0.09 FD3	<0.001	0.09 FD3	0.07 FD3	6 FD3	0.0691 D3	12 D3	<0.1 D3
	RES-006D 2125.45-2128.42	N	<0.3 D3	0.13 FD3	53 D3	9 D1	124 D3	0.007 D3	<5 D3	0.22 D3	<0.001	0.09 FD3	0.09 FD3	<8 D3	0.0522 D3	27 D3	<0.1 D3
	RES-006D 2137.08-2138.5	N	<0.3 D3	0.09 FD3	55.9 D3	33 D1	58.2 D3	0.028 D3	<5 D3	0.27 D3	<0.001	0.08 FD3	0.08 FD3	10 D3	0.0417 D3	16 D3	<0.1 D3
RES-009	RES-009 1012.16-1014.16	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0002 F	<5 D3	0.13 D3	<0.05 D3	<0.3 D3	<0.3 D3	16 D3	<0.003 D3	19 D3	<0.1 D3V1
	RES-009 1027.38-1030.3	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.0005	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	5 FD3	<0.003 D3	8 FD3	<0.1 D3V1
	RES-009 1045.3-1048.3	N	<0.3 D3	<0.3 D3	11 D3	<5 D1	<0.3 D3	0.0006	13 D3	1.04 D3	<0.01 D3	<0.3 D3	<0.3 D3	16 D3	0.0009 FD3	44 D3	<0.1 D3V1
	RES-009 105.16-105.73	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	0.2 FD3	<0.0005	<5 D3	0.09 FD3	<0.005 D3	<0.3 D3	<0.3 D3	2 FD3	<0.0005	21 D3	<0.1 D3
	RES-009 1063.3-1066.3	N	<0.3 D3	0.07 FD3	13.8 D3	<5 D1	<0.3 D3	0.0006	13 D3	0.65 D3	<0.01 D3	<0.3 D3	<0.3 D3	12 D3	0.007 D3	46 D3	<0.1 D3V1
	RES-009 1081.3-1084.3	N	<0.3 D3	<0.3 D3	8.53 D3	1 FD1	<0.3 D3	0.0011	11 D3	0.53 D3	<0.01 D3	<0.3 D3	0.07 FD3	15 D3	0.004 D3	61 D3	<0.1 D3V1
	RES-009 1098.34-1100.96	N	<0.3 D3	0.05 FD3	3.93 D3	1 FD1	<0.3 D3	0.0013	17 D3	0.6 D3	<0.01 D3	<0.3 D3	0.05 FD3	11 D3	0.004 D3	50 D3	0.1 D3V1
	RES-009 199.18-199.78	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.0005	<5 D3	0.53 D3	<0.05 D3	<0.3 D3	<0.3 D3	3 FD3	<0.0005	18 D3	<0.1 D3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L
RES-009		FD	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.001	<5 D3	0.55 D3	<0.05 D1	<0.3 D3	<0.3 D3	3 FD3	<0.0005	16 D3	<0.1 D3
	RES-009 281.14-281.64	N	<0.3 D3	0.06 FD3	<0.3 D3	<5 D1	<0.3 D3	<0.0005	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	<8 D3	<0.003 D3	20 D3	<0.1 D3
	RES-009 348.3-348.83	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.005 D3	<5 D3	0.46 D3	<0.05 D3	<0.3 D3	<0.3 D3	3 FD3	<0.003 D3	14 D3	<0.1 D3
	RES-009 447.23-447.8	N	<0.3 D3	<0.3 D3	0.08 FD3	<5 D1	0.2 FD3	0.0005	<5 D3	0.05 FD3	<0.05 D3	<0.3 D3	<0.3 D3	3 FD3	<0.003 D3	21 D3	<0.1 D3
	RES-009 485.12-485.71	N	<0.3 D3	<0.3 D3	0.11 FD3M2	<5 D1M2	<0.3 D3	<0.0005	2 FD3	0.08 FD3	<0.01 D3	<0.3 D3	<0.3 D3	3 FD3	<0.003 D3	14 D3	<0.1 D3M2
	RES-009 557.06-557.56	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0001 F	<5 D3	<0.1 D3	0.05	0.06 FD3	<0.3 D3	3 FD3	0.0014 FD3	35 D3	<0.1 D3
	RES-009 647.52-648.1	N	<0.3 D3	<0.3 D3	0.06 FD3	<5 D1	<0.3 D3	<0.0005	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	9 D3	0.0032 D3	30 D3	<0.1 D3
	RES-009 7.43-7.96	N	<0.3 D3	<0.3 D3	0.09 FD3	<5 D1	<0.3 D3	<0.0005	<5 D3	0.23 D3	<0.005 D3	<0.3 D3	<0.3 D3	2 FD3	0.0002 F	20 D3	<0.1 D3
	RES-009 718-718.58	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0002 F	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	4 FD3	<0.003 D3	17 D3	0.07 FD3
		FD	<0.3 D3	0.05 FD3	<0.3 D3	<5 D1	<0.3 D3	0.0001 F	<5 D3	<0.1 D3	<0.05 D3	<0.3 D3	<0.3 D3	3 FD3	0.0007 FD3	12 D3	<0.1 D3
	RES-009 810.42-810.98	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0006	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	8 D3	0.0021 FD3	23 D3	<0.1 D3
	RES-009 906.08-906.58	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.005 D3	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	12 D3	<0.005 D3	23 D3	<0.1 D3V1
	RES-009 987.9-988.45	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	0.0002 F	<5 D3	<0.1 D3	<0.01 D3	<0.3 D3	<0.3 D3	6 FD3	0.021 D3	14 D3	<0.1 D3V1
	RES-009 994.67-997.67	N	<0.3 D3	<0.3 D3	0.06 FD3	<5 D1	<0.3 D3	0.0005	1 FD3	0.08 FD3	<0.05 D3	<0.3 D3	<0.3 D3	22 D3	<0.003 D3	25 D3	<0.1 D3V1
RES-009D	RES-009D 1119.32-1122.42	N	<0.3 D3	<0.3 D3	8 D3	<5 D1	0.7 D3	0.0225	3 FD3	0.22 D3	<0.01 D3	<0.3 D3	<0.3 D3	7 FD3	0.056 D3	18 D3	<0.1 D3V1
		FD	<0.3 D3	0.05 FD3	8.93 D3	<50 D1	8.4 D3	0.0305	6 D3	0.44 D3	<0.005 D2	<0.3 D3	<0.3 D3	10 D3	0.0647	53 D3	<0.1 D3
	RES-009D 1128.62-1131.72	N	0.05 FD3	0.07 FD3	5.89 D3	<50 D1	10.6 D3	0.111	7 D3	0.8 D3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.0526	54 D3	<0.1 D3
RES-009E	RES-009E 1307.1-1310.1	N	<0.3 D3	<0.3 D3	48.4 D3	<50 D1	174 D3	0.001 FD2	<5 D3	0.33 D3	<0.002 D2	<0.3 D3	<0.3 D3	10 D3	0.007 D2	26 D3	<0.1 D3
	RES-009E 1319.1-1322.1	N	<0.3 D3	<0.3 D3	15.6 D3	<50 D1	45 D3	0.0003 F	<5 D3	0.16 D3	<0.001	<0.3 D3	<0.3 D3	13 D3	0.0109	29 D3	<0.1 D3
	RES-009E 1335.41-1338.16	N	<0.3 D3	0.06 FD3	5.45 D3	<50 D1	99.2 D3	0.0124	<5 D3	0.26 D3	<0.001	<0.3 D3	<0.3 D3	12 D3	0.0178	30 D3	<0.1 D3
	RES-009E 1351.03-1354.03	N	<0.3 D3	<0.3 D3	23.4 D3	<50 D1	59.1 D3	0.0006	<5 D3	0.14 D3	<0.001	<0.3 D3	<0.3 D3	13 D3	0.0183	19 D3	<0.1 D3
	RES-009E 1368.07-1370.69	N	<0.3 D3	0.08 FD3	3.95 D3	<50 D1	296 D3	0.0002 F	<5 D3	0.27 D3	<0.001	<0.3 D3	<0.3 D3	2 FD3	0.0569	13 D3	<0.1 D3
	RES-009E 1385.61-1388.61	N	<0.3 D3	0.07 FD3	2.85 D3	<50 D1	219 D3	0.0002 F	<5 D3	0.25 D3	<0.001	<0.3 D3	<0.3 D3	4 FD3	0.0451	14 D3	<0.1 D3
	RES-009E 1402.22-1404.53	N	0.36 D3	<0.3 D3	12.7 D3	<50 D1	82.5 D3	0.0007	<5 D3	0.05 FD3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.026	14 D3	<0.1 D3
		FD	0.32 D3	<0.3 D3	12.5 D3	<50 D1	78.3 D3	0.0008	<5 D3	0.05 FD3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.0251	11 D3	<0.1 D3
	RES-009E 1418.16-1419.8	N	<0.3 D3	<0.3 D3	22.7 D3	<50 D1	86.6 D3	<0.005 D2	<5 D3	0.16 D3	<0.005 D2	<0.3 D3	<0.3 D3	14 D3	0.017 D2	23 D3	0.15 D3
	RES-009E 1431.42-1433.8	N	0.07 FD3	<0.3 D3	66.8 D3M3	<50 D1	57 D3M3	0.0002 F	<5 D3	<0.1 D3	<0.005 D2	<0.3 D3	<0.3 D3	9 D3	0.0143	16 D3	<0.1 D3
	RES-009E 1446.41-1449.41	N	<0.3 D3	0.08 FD3	26.4 D3	<50 D1	136 D3	<0.0005	<5 D3	0.15 D3	<0.001	<0.3 D3	<0.3 D3	10 D3	0.0252	22 D3	<0.1 D3
	RES-009E 1464.41-1467.41	N	<0.3 D3	0.07 FD3	19.9 D3	<50 D1	119 D3	0.0001 F	<5 D3	0.16 D3	<0.001	<0.3 D3	<0.3 D3	10 D3	0.0216	23 D3	<0.1 D3
	RES-009E 1478.13-1481.13	N	<0.3 D3	<0.3 D3	50.8 D3	<50 D1	111 D3	0.0002 F	<5 D3	0.2 D3	<0.001	<0.3 D3	<0.3 D3	12 D3	0.0235	27 D3	<0.1 D3
	RES-009E 1496.13-1499.13	N	<0.3 D3	<0.3 D3	39 D3	<50 D1	126 D3	<0.0005	<5 D3	0.27 D3	<0.001	<0.3 D3	<0.3 D3	11 D3	0.0306	24 D3	<0.1 D3
	RES-009E 1510.74-1527.19	N	0.51 D3	0.09 FD3	19.6 D3	<10 D1	185 D3	<0.003 D3	<5 D3	0.1 D3	<0.001	<0.3 D3	<0.3 D3	14 D3	0.0355 D3	23 D3	<0.1 D3
	RES-009E 1514.13-1517.13	N	<0.3 D3	0.06 FD3	15.5 D3	<50 D1	160 D3	<0.0005	<5 D3	0.25 D3	<0.001	<0.3 D3	<0.3 D3	10 D3	0.0376	19 D3	<0.1 D3
	RES-009E 1532.4-1534.49	N	0.38 D3	0.09 FD3	19.5 D3	<50 D1	147 D3	0.0002 F	<5 D3	0.04 FD3	<0.001	<0.3 D3	<0.3 D3	4 FD3	0.0395	13 D3	<0.1 D3
		FD	0.36 D3	0.09 FD3	19.8 D3	<50 D1	140 D3	<0.0005	<5 D3	0.04 FD3	<0.001	<0.3 D3	<0.3 D3	3 FD3	0.0406	14 D3	<0.1 D3
	RES-009E 1547.47-1550.47	N	<0.3 D3	0.07 FD3	43.1 D3	<50 D1	104 D3	0.0022	<5 D3	0.41 D3	<0.001	<0.3 D3	<0.3 D3	6 FD3	0.0521	15 D3	0.05 FD3
	RES-009E 1565.47-1568-47	N	<0.3 D3	0.13 FD3	9.47 D3	<10 D1	298 D3	0.0003 F	<5 D3	0.47 D3	<0.001	<0.3 D3	<0.3 D3	3 FD3	0.0694	11 D3	0.13 D3
	RES-009E 1597.32-1599.88	N	<0.3 D3	0.14 FD3	10.8 D3	<30 D1	287 D3	0.0015	<5 D3	0.29 D3	<0.001	0.07 FD3	<0.3 D3	<8 D3	0.044	7 FD3	<0.1 D3
	RES-009E 1602.44-1605	N	<0.3 D3	0.22 FD3	9.73 D3	<10 D1	213 D3	0.005 D3	<5 D3	0.19 D3	<0.002 D3	<0.3 D3	<0.3 D3	<8 D3	0.037 D3	10 D3	<0.1 D3
	RES-009E 1617.38-1619-.14	N	<0.3 D3	<0.3 D3	16.6 D3	11 D1	33.8 D3	0.0003 F	1 FD3	0.1 D3	<0.001	<0.3 D3	<0.3 D3	11 D3	0.0257	14 D3	0.06 FD3
	RES-009E 1634.46-1637.47	N	<0.3 D3	0.1 FD3	71.1 D3	<5 D1	45.9 D3	0.0002 F	<5 D3	0.18 D3	<0.001	<0.3 D3	<0.3 D3	7 FD3	0.02	10 D3	<0.1 D3
	RES-009E 1650.14-1652.81	N	<0.3 D3	0.28 FD3	118 D3	3 FD1	48.3 D3	0.0009	<5 D3	0.14 D3	<0.001	<0.3 D3	<0.3 D3	2 FD3	0.0332	8 FD3	<0.1 D3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L
RES-009E		FD	<0.3 D3	0.29 FD3	122 D3	2 FD1	56 D3	0.0007	<5 D3	0.15 D3	<0.001	<0.3 D3	<0.3 D3	<8 D3	0.0355	7 FD3	<0.1 D3
	RES-009E 1669.07-1672.07	N	<0.3 D3	<0.3 D3	95.2 D3	<5 D1	20.4 D3	0.0004 F	<5 D3	0.09 FD3	<0.001	<0.3 D3	<0.3 D3	7 FD3	0.0524	13 D3	0.15 D3
	RES-009E 1685.09-1687-47	N	<0.3 D3	<0.3 D3	70.7 D3M3	<5 D1M1	6.5 D3	0.0009	<5 D3	<0.1 D3	<0.005 D3	0.22 FD3	<0.3 D3	8 D3	0.0201	8 FD3	<0.1 D3M2
	RES-009E 1697.61-1700.61	N	<0.3 D3	0.15 FD3	35.2 D3	3 FD1	48.8 D3	0.0053	1 FD3	0.15 D3	<0.001	0.08 FD3	<0.3 D3	13 D3	0.0301	18 D3	<0.1 D3
	RES-009E 1718.61-1721.61	N	<0.3 D3	<0.3 D3	35 D3	<5 D1	34.5 D3	0.104 D3	<5 D3	0.22 D3	<0.005 D3	0.05 FD3	<0.3 D3	8 D3	0.023 D3	17 D3	<0.1 D3
	RES-009E 1739.63-1742.63	N	<0.3 D3	<0.3 D3	34.9 D3M3	3 FD1	27.4 D3	0.142	<5 D3	0.31 D3	<0.002 D3	0.3 D3	<0.3 D3	<8 D3	0.0125	6 FD3	<0.1 D3M2
	RES-009E 1760.86-1763.86	N	<0.3 D3	<0.3 D3	41.7 D3	4 FD1	18 D3	0.0033	<5 D3	0.09 FD3	<0.001	0.09 FD3	<0.3 D3	5 FD3	0.0198	8 FD3	<0.1 D3
		FD	<0.3 D3	<0.3 D3	39.2 D3	4 FD1	20.4 D3	0.0037	<5 D3	0.1 D3	<0.001	0.1 FD3	<0.3 D3	5 FD3	0.0197	9 FD3	<0.1 D3
	RES-009E 1789.83-1792.31	N	<0.3 D3	0.06 FD3	55.4 D3	25 D1	36.4 D3	0.0069	<5 D3	0.25 D3	<0.001	0.06 FD3	<0.3 D3	9 D3	0.0271	18 D3	0.09 FD3
	RES-009E 1798.16-1799.79	N	<0.3 D3	0.1 FD3	125 D3	8 D1	17.8 D3	0.0004 F	<5 D3	0.16 D3	<0.001	0.2 FD3	<0.3 D3	7 FD3	0.0448	12 D3	<0.1 D3
	RES-009E 1801.42-1804.15	N	<0.3 D3	0.1 FD3	176 D3	6 D1	58.9 D3	0.0001 F	<5 D3	0.26 D3	<0.001	<0.3 D3	<0.3 D3	3 FD3	0.0728	15 D3	<0.1 D3
	RES-009E 1818.62-1821.62	N	<0.3 D3	0.06 FD3	159 D3	49 D1	53.5 D3	0.0144	7 D3	0.69 D3	<0.001	<0.3 D3	<0.3 D3	9 D3	0.0699	52 D3	<0.1 D3
	RES-009E 1829.95-1832.48	N	<0.3 D3	<0.3 D3	362 D3	27 D1	50.8 D3M3	0.0042	14 D3	1.07 D3	<0.002 D3	<0.3 D3	<0.3 D3	10 D3	0.158	26 D3	0.09 FD3
	RES-009E 1846.66-1849.66	N	<0.3 D3	0.08 FD3	225 D3	59 D1	61.6 D3	0.006	29 D3	5.1 D3	<0.001	<0.3 D3	<0.3 D3	13 D3	0.112	63 D3	<0.1 D3
	RES-009E 1862.15-1865.15	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.001	3.11 D3	<0.3 D3	4 FD3	0.0466 D3	3 FD3	<0.1 D3
	RES-009E 1867.87-1884.35	N	0.05 FD3	0.05 FD3	0.05 FD3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.001	1.88 D3	<0.3 D3	6 FD3	0.0518 D3	<10 D3	<0.1 D3
	RES-009E 1880.15-1882.37	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	4 FD3	<0.1 D3	<0.001	1.95 D3	<0.3 D3	6 FD3	0.0497 D3	<10 D3	<0.1 D3
		FD	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	<0.001	2.51 D3	<0.3 D3	6 FD3	0.0542 D3	<10 D3	<0.1 D3
	RES-009E 1899-1901.88	N	<0.3 D3	0.09 FD3	166 D3	16 D1	0.8 D3	<0.003 D3	6 D3	4.81 D3	<0.001	<0.3 D3	0.05 FD3	15 D3	0.175 D3	23 D3	0.13 D3
	RES-009E 1929.76-1932.58	N	<0.3 D3	0.09 FD3	177 D3	6 D1	<0.3 D3	<0.003 D3	4 FD3	3.73 D3	<0.001	<0.3 D3	<0.3 D3	6 FD3	0.136 D3	11 D3	0.24 D3
	RES-009E 1947.67-1950.67	N	<0.3 D3	<0.3 D3	1.32 D3	<5 D1	<0.3 D3	<0.003 D3	4 FD3	0.05 FD3	<0.001	0.89 D3	<0.3 D3	7 FD3	0.036 D3	3 FD3	0.14 D3
	RES-009E 1954.6-1956	N	<0.3 D3	<0.3 D3	1.1 D3	<5 D1	0.2 FD3	<0.003 D3	<5 D3	<0.1 D3	<0.001	1.26 D3	<0.3 D3	7 FD3	0.0835 D3	3 FD3	<0.1 D3
	RES-009E 1967.76-1969.72	N	<0.3 D3	0.07 FD3	95.1 D3	3 FD1	19.6 D3	0.0006 FD3	2 FD3	0.36 D3	<0.001	<0.3 D3	<0.3 D3	12 D3	0.0622 D3	18 D3	0.24 D3
	RES-009E 1974.78-1977.89	N	<0.3 D3	<0.3 D3	<0.3 D3	<5 D1	<0.3 D3	<0.003 D3	<5 D3	<0.1 D3	< 0.002 D2	0.34 D3	<0.3 D3	5 FD3	0.039 D3	4 FD3	0.11 D3
	RES-009E 1984.74-1987.74	N	<0.3 D3	<0.3 D3	166 D3	5 D1	<0.3 D3	0.0029 D3	<5 D3	0.33 D3	<0.001	0.2 FD3	<0.3 D3	<8 D3	0.0123 D3	5 FD3	0.25 D3
	RES-009E 2056.38-2075	N	<0.3 D3	0.07 FD3	73.8 D3	6 FD1	12.8 D3	0.0014 FD3	14 D3	0.3 D3	<0.001	<0.3 D3	0.05 FD3	19 D3	0.0603 D3	19 D3	<0.1 D3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	RES-001C 1502-1505	N	4 FD3	0.0002 F	0.0032	<0.1 D3	5.8 D3
	RES-001C 1530-1533	N	5 FD3	<0.005 D3	0.002 FD3	<0.1 D3	3.26 D3
	RES-001C 1557-1560	N	4 FD3	0.0005	0.0027	<0.1 D3	1.33 D3
	RES-001C 1584-1587	N	5 FD3	0.0003 F	0.002	<0.1 D3	2.85 D3
		FD	5 FD3	0.0003 F	0.0021	<0.1 D3	3.06 D3
	RES-001C 1611-1614	N	5 FD3	0.0002 F	0.006	<0.1 D3	8.31 D3
	RES-001C 1639-1642	N	4 FD3	0.0001 F	0.0011	<0.1 D3	5.44 D3
	RES-001C 1666-1669	N	3 FD3	<0.0005	<0.0005	<0.1 D3	0.12 FD3
	RES-001C 1693-1696	N	4 FD3	0.0001 F	0.0015	<0.1 D3	4.3 D3
	RES-001C 1711-1714.96	N	4 FD3	<0.0005	<0.0005	<0.1 D3	0.11 FD3
	RES-001C 1745-1748	N	5 FD3	0.0005	0.0022	<0.1 D3	0.55 D3
	RES-001C 1771.75-1791.4	N	22 D3	<0.003 D3	<0.003 D3	<0.1 D3	0.15 FD3
	RES-001C 1781-1784	N	5 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.13 FD3
	RES-001C 1799-1802	N	5 FD3	<0.0005	0.0001 F	<0.1 D3	0.22 FD3
		FD	4 FD3	<0.0005	<0.0005	<0.1 D3	0.11 FD3
	RES-001C 1814-1817	N	6 FD3	<0.0005	<0.0005	<0.1 D3	0.06 FD3
	RES-001C 1837-1840	N	4 FD3	<0.0005	<0.0005	<0.1 D3	0.14 FD3
	RES-001C 1855-1858	N	4 FD3	<0.0005	<0.0005	<0.1 D3	0.1 FD3
	RES-001C 1873-1876	N	5 FD3	<0.0005	<0.0005	<0.1 D3	0.08 FD3
	RES-001C 1892.5-1895	N	9 D3	0.0002 F	<0.0005	<0.1 D3	0.17 FD3
	RES-001C 1934-1937	N	3 FD3	<0.0005	0.001	<0.1 D3	0.15 FD3
	RES-001C 1987-1990	N	4 FD3	0.0003 F	0.0027	<0.1 D3	1.17 D3
	RES-001C 2007-2010	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.09 FD3
		FD	4 FD3	<0.0005	<0.0005	<0.1 D3	0.1 FD3
	RES-001C 2041-2044	N	3 FD3	0.0001 F	<0.0005	<0.1 D3	0.11 FD3
	RES-001C 2115-2118	N	4 FD3	<0.0005	<0.0005	<0.1 D3	0.1 FD3
	RES-001C 2164.4-2166.3	N	3 FD3	0.0003 F	0.0021	0.08 FD3	0.77 D3
	RES-001C 2214-2215	N	3 FD3	0.0001 F	0.0107	<0.1 D3	5.7 D3
	RES-001C 2242-2244	N	3 FD3	0.0001 F	0.0041	<0.1 D3	0.2 FD3
RES-002A	RES-002A 1007-1010	N	4 FD4	<0.0005 V5	0.0005	<0.1 D4	0.1 FD4
	RES-002A 1058-1061	N	5 FD4	0.0001 F	0.0008	<0.1 D4	0.34 D4
	RES-002A 1109-1112	N	14 D4	<0.0005 V5	0.0011	<0.1 D4	0.35 D4
	RES-002A 1154-1156	N	4 FD4	0.0002 F	0.0005	<0.1 D4	0.15 FD4
	RES-002A 1201-1203	N	3 FD4	<0.0005 V5	0.0104	<0.1 D4	0.47 D4
		FD	3 FD4	<0.0005 V5	0.0085	<0.1 D4	0.41 D4
	RES-002A 1246-1249	N	3 FD4	<0.0005 V5	0.0008	<0.1 D4	0.23 FD4
	RES-002A 1291-1292	N	3 FD4	<0.0005	0.0005	<0.1 D4	0.2 FD4
	RES-002A 1325-1328	N	3 FD4	<0.0005	0.0009	<0.1 D4	0.1 FD4
	RES-002A 1363-1366	N	3 FD4	<0.0005 V5	0.0006	<0.1 D4	0.3 D4
	RES-002A 1395-1397	N	3 FD4	<0.0005	0.0011	<0.1 D4	0.16 FD4
	RES-002A 1414.6-1417	N	3 FD4	<0.0005 V5	0.0005	<0.1 D4	0.06 FD4
	RES-002A 1454-1457	N	3 FD4	0.0003 F	0.001	<0.1 D4	0.16 FD4

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	RES-002A 1538-1541	N	3 FD4	0.0008	0.0007	<0.1 D4	0.12 FD4
	RES-002A 1583-1586	N	3 FD3	0.0001 F	0.0013	<0.1 D3	0.21 FD3
	RES-002A 1627-1630	N	3 FD3	<0.005 D3	0.005 D3	<0.1 D3	0.14 FD3
	RES-002A 1732-1735	N	3 FD3	0.0002 F	0.0009	<0.1 D3	0.81 D3
	RES-002A 1755-1756	N	3 FD3	0.0002 F	0.0011	<0.1 D3	0.8 D3
	RES-002A 1781-1784	N	3 FD3	<0.0005	0.0006	<0.1 D3	0.52 D3
	RES-002A 1814-1817	N	3 FD3	<0.0005	0.0013	<0.1 D3	0.22 FD3
	RES-002A 1876-1879	N	3 FD3	0.0005	0.0048	<0.1 D3	0.21 FD3
	RES-002A 1927-1930	N	5 FD3	0.0005	0.0007	<0.1 D3	0.25 FD3
	RES-002A 1981-1984	N	4 FD3	0.0004 F	0.0006	<0.1 D3	0.24 FD3
	RES-002A 858-861	N	5 FD4	<0.0005	0.0001 F	<0.1 D4	0.09 FD4
	RES-002A 888-891	N	5 FD4	<0.0005	<0.0005	<0.1 D4	<0.3 D4
	RES-002A 927-930	N	4 FD4	<0.0005	0.0001 F	<0.1 D4	0.11 FD4
	RES-002A 965-968	N	4 FD4	0.0003 F	0.0002 F	<0.1 D4	0.11 FD4
	RES-002A 992-995	N	4 FD4	<0.0005	<0.0005	<0.1 D4	0.11 FD4
		FD	4 FD4	<0.0005 V5	<0.0005	<0.1 D4	0.14 FD4
RES-005I	RES-005I 1011.88-1012.45	N	11 D3	0.0005 FD3	<0.003 D3	0.03 FD3	0.11 FD3
	RES-005I 1322.73-1323.23	N	6 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.13 FD3
	RES-005I 1353-1353.49	N	6 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.15 FD3
		FD	5 FD3	0.0005 FD3	<0.003 D3	<0.1 D3	0.15 FD3
	RES-005I 1370.93-1374	N	5 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.35 D3
	RES-005I 1380-1383	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.11 FD3
	RES-005I 1389-1391.57	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.14 FD3
	RES-005I 1396.3-1399.3	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.19 FD3
	RES-005I 1405-1406.67	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.12 FD3
	RES-005I 1410.18-1413.18	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.1 FD3
	RES-005I 1419.18-1422.18	N	3 FD3	<0.003 D3	<0.003 D3	0.05 FD3	0.1 FD3
		FD	3 FD3	<0.003 D3	<0.003 D3	0.05 FD3	0.14 FD3
	RES-005I 1428.18-1431.18	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.13 FD3
	RES-005I 1437.13-1440.13	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.11 FD3
	RES-005I 1446.13-1449.13	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3M1	0.13 FD3
	RES-005I 1455.13-1458.13	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.12 FD3
	RES-005I 1464.13-1467.13	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.13 FD3
	RES-005I 1473.13-1476.13	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.12 FD3
	RES-005I 1481-1482.66	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.08 FD3
		FD	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.11 FD3
	RES-005I 1487.1-1490.1	N	3 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.07 FD2
	RES-005I 1490.1-1493.1	N	3 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.06 FD2
	RES-005I 1499-1502	N	3 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.1 FD2
	RES-005I 1506.56-1509.47	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.09 FD2
	RES-005I 1515.47-1518.47	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.17 FD2
	RES-005I 1524.47-1527.47	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.13 FD2

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
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D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
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M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	RES-005I 1532.98-1534.97	N	3 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.22 FD2
	RES-005I 1544-1546.55	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.07 FD2
	RES-005I 1552.55-1555.58	N	3 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.07 FD2
	RES-005I 1559.46-1562.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.11 FD2
	RES-005I 1568.46-1571.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.19 FD2
	RES-005I 1577.46-1580.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.1 FD2
		FD	<8 D2	<0.003 D2	<0.003 D2	<0.1 D2	0.11 FD2
	RES-005I 1586.46-1589.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.22 FD2
	RES-005I 1595.46-1598.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.11 FD2
	RES-005I 1604.46-1607.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.41 D2
	RES-005I 1613.46-1616.46	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.12 FD2
	RES-005I 1616.46-1619	N	3 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.1 FD2
	RES-005I 1626.54-1627.16	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.12 FD2
	RES-005I 1627.16-1630	N	2 FD2	<0.003 D2	<0.003 D2	<0.1 D2	0.08 FD2
	RES-005I 1632.56-1635.56	N	3 FD3	<0.005 D2	<0.005 D2	<0.1 D3	0.62 D3
	RES-005I 1638.37-1641	N	3 FD3	0.0002 F	0.0006	<0.1 D3	0.67 D3
	RES-005I 1645.84-1648.08	N	3 FD3	<0.0005	0.0004 F	<0.1 D3	0.28 FD3
	RES-005I 1652-1654.93	N	3 FD3	0.0001 F	0.0003 F	<0.1 D3	0.28 FD3
	RES-005I 1654.93-1657.3	N	3 FD3	0.0002 F	0.0006	<0.1 D3	0.18 FD3
	RES-005I 1677.8-1680.8	N	3 FD3	<0.0005	0.0009	<0.1 D3	0.37 D3
	RES-005I 1695.23-1697.23	N	3 FD3	0.0001 F	0.0003 F	<0.1 D3	0.38 D3
	RES-005I 1711.23-1713.23	N	3 FD3	0.0001 F	0.0014	<0.1 D3	0.37 D3
	RES-005I 1727.23-1729.23	N	3 FD3	<0.0005	0.0004 F	<0.1 D3	0.4 D3
		FD	3 FD3	<0.005 D2	<0.005 D2	<0.1 D3	0.85 D3M2
	RES-005I 1743.23-1745.23	N	4 FD3	<0.005 D2	<0.005 D2	<0.1 D3	0.2 FD3
	RES-005I 1759.23-1761.23	N	3 FD3	0.0013	0.0013	<0.1 D3	0.34 D3
	RES-005I 1775.23-1778.23	N	3 FD3	0.0008	0.0009	<0.1 D3	0.28 FD3
	RES-005I 1794.36-1796.3	N	3 FD3	0.0003 F	0.0006	<0.1 D3	0.2 FD3
	RES-005I 1811.3-1814.3	N	3 FD3	0.0013	0.0015	<0.1 D3	0.29 FD3
	RES-005I 1830.5-1831.5	N	3 FD3	0.0012	0.0015	<0.1 D3	0.28 FD3
	RES-005I 1835.3-1838.3	N	3 FD3	0.0003 F	0.0011	<0.1 D3	0.37 D3
	RES-005I 1855.91-1858.91	N	3 FD3	0.0002 F	0.0026	<0.1 D3	1.54 D3
	RES-005I 1872.9-1875.38	N	3 FD3	0.0002 F	0.0015	<0.1 D3	4 D3
	RES-005I 1875.38-187	N	2 FD3	0.0006 FD3	0.0022 FD3	<0.1 D3	19.1 D3M3
	RES-005I 1884-1887	N	3 FD3	<0.005 D3	0.002 FD3	<0.1 D3	0.71 D3
	RES-005I 1895-1897.0	N	3 FD3	0.001 FD3	0.0156 D3	<0.1 D3	7.93 D3
	RES-005I 1901.49-190	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	7.63 D3
	RES-005I 1917.29-191	N	3 FD3	0.0005 FD3	0.001 FD3	<0.1 D3	1.81 D3
	RES-005I 1923.1-1925	N	3 FD3	0.0006 FD3	0.0011 FD3	<0.1 D3	6.43 D3
	RES-005I 1955.06-195	N	4 FD3	0.0006 FD3	<0.003 D3	<0.1 D3	3.77 D3
		FD	3 FD3	0.0006 FD3	<0.003 D3	<0.1 D3	3.68 D3
	RES-005I 1979.06-198	N	4 FD3	0.0006 FD3	0.0008 FD3	<0.1 D3	0.22 FD3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	RES-005I 2008.11-201	N	3 FD3	0.0005 FD3	0.0008 FD3	<0.1 D3	0.32 D3
	RES-005I 2032.11-203	N	3 FD3	<0.005 D3	0.001 FD3	<0.1 D3	0.22 FD3
	RES-005I 2049.84-205	N	3 FD3	0.0006 FD3	0.0008 FD3	<0.1 D3	0.98 D3
	RES-005I 2061.84-206	N	3 FD3	<0.003 D3	0.0005 FD3	<0.1 D3	1.84 D3
RES-005J	RES-005J 1660.4-1668	N	3 FD3	0.0009 FD3	0.0006 FD3	<0.1 D3	0.55 D3
RES-006D	RES-006D 1247.48-1250.48	N	6 FD3	<0.005 D3	<0.005 D3	0.04 FD3	5.2 D3
	RES-006D 1405.47-1408.44	N	7 FD3	0.0007 FD3	0.0014 FD3	<0.1 D3	1.05 D3
	RES-006D 1450.44-1453.44	N	5 FD3	<0.003 D3	0.0114 D3	<0.1 D3	13.5 D3
	RES-006D 1495.44-1498.44	N	3 FD3	0.0007 FD3	0.0071 D3	<0.1 D3	18.5 D3
	RES-006D 1532.81-1535.81	N	3 FD3	<0.003 D3	0.008 D3	<0.1 D3	6.23 D3
	RES-006D 1577.43-1580.43	N	5 FD3	0.0007 FD3	0.0036 D3	<0.1 D3	6.2 D3
		FD	4 FD3	0.0005 FD3	0.0024 FD3	<0.1 D3	4.66 D3
	RES-006D 1622.43-1625.43	N	4 FD3	0.0005 FD3	0.003 D3	<0.1 D3	5.38 D3
	RES-006D 1667.43-1670.43	N	3 FD3	<0.003 D3	0.0023 FD3	<0.1 D3	5.67 D3
	RES-006D 1705.4-1708.4	N	4 FD3	<0.003 D3	0.0029 FD3	<0.1 D3	3 D3
	RES-006D 1750.4-1753.4	N	15 D3	<0.003 D3	0.0013 FD3	<0.1 D3	3.42 D3
	RES-006D 1798.4-1801.4	N	18 D3	<0.005 D3	0.001 FD3	<0.1 D3	3.54 D3
	RES-006D 1843.4-1846.4	N	16 D3	<0.003 D3	0.0013 FD3	<0.1 D3	3.06 D3
	RES-006D 1898.21-1901.09	N	16 D3	<0.003 D3	0.0017 FD3	<0.1 D3	0.06 FD3
	RES-006D 1927.23-1930.23	N	16 D3	<0.003 D3	0.0014 FD3	<0.1 D3	0.1 FD3
		FD	16 D3	<0.003 D3	0.0016 FD3	<0.1 D3	0.31 D3
	RES-006D 1952.56-1954.83	N	17 D3	<0.003 D3	<0.003 D3	<0.1 D3	0.11 FD3
	RES-006D 1954.83-197	N	3 FD3	<0.003 D3	0.0007 FD3	<0.1 D3	0.2 FD3
	RES-006D 1980.6-1983.6	N	16 D3	<0.003 D3	0.0016 FD3	<0.1 D3	3.13 D3D
	RES-006D 1995.6-1998.6	N	18 D3	<0.003 D3	0.0097 D3	<0.1 D3	4.08 D3
	RES-006D 2022.66-2025.66	N	17 D3	<0.003 D3	0.0007 FD3	<0.1 D3	1.58 D3
	RES-006D 2040.66-2043.66	N	17 D3	<0.005 D3	0.003 FD3	<0.1 D3	2.97 D3
	RES-006D 2058.16-2061.16	N	18 D3	0.0005 FD3	<0.003 D3	<0.1 D3	0.47 D3
	RES-006D 2073.13-2076.13	N	18 D3	<0.003 D3	0.0009FD3	<0.1 D3	2.73 D3
		FD	17 D3	<0.003 D3	0.0008 FD3	<0.1 D3	2.49 D3
	RES-006D 2091.13-2094.13	N	32 D3	<0.003 D3	<0.003 D3	<0.1 D3	0.64 D3
	RES-006D 2115.47-2118.47	N	18 D3	<0.003 D3	<0.003 D3	<0.1 D3	0.21 FD3
	RES-006D 2125.45-2128.42	N	17 D3	<0.003 D3	<0.003 D3	<0.1 D3	0.09 FD3
	RES-006D 2137.08-2138.5	N	19 D3	<0.003 D3	0.0008 FD3	<0.1 D3	0.41 D3
RES-009	RES-009 1012.16-1014.16	N	4 FD3	<0.0005	0.0005	<0.1 D3	0.22 FD3
	RES-009 1027.38-1030.3	N	6 FD3	<0.0005	0.0003 F	<0.1 D3	0.11 FD3
	RES-009 1045.3-1048.3	N	12 D3	0.0001 F	0.0003 F	0.03 FD3	2.01 D3
	RES-009 105.16-105.73	N	5 FD3	<0.0005	0.0003 F	<0.1 D3	0.18 FD3
	RES-009 1063.3-1066.3	N	13 D3	<0.0005	0.0001 F	0.05 FD3	2.71 D3
	RES-009 1081.3-1084.3	N	13 D3	0.0001 F	0.001	<0.1 D3	2.08 D3
	RES-009 1098.34-1100.96	N	10 D3	<0.0005	0.0005	0.05 FD3	3.59 D3
	RES-009 199.18-199.78	N	6 FD3	<0.0005	0.0014	<0.1 D3	0.09 FD3

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APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009		FD	7 FD3	<0.0005	0.0014	<0.1 D3	0.06 FD3
	RES-009 281.14-281.64	N	7 FD3	<0.0005	0.0006	<0.1 D3	0.13 FD3
	RES-009 348.3-348.83	N	7 FD3	<0.005 D3	0.001 FD3	<0.1 D3	0.09 FD3
	RES-009 447.23-447.8	N	25 D3	<0.0005	0.0002 F	<0.1 D3	0.07 FD3
	RES-009 485.12-485.71	N	15 D3	<0.0005	0.0001 F	<0.1 D3	0.12 FD3
	RES-009 557.06-557.56	N	19 D3	<0.0005	0.0052	0.12 D3	0.13 FD3
	RES-009 647.52-648.1	N	16 D3	<0.0005	<0.0005	0.03 FD3	0.08 FD3
	RES-009 7.43-7.96	N	5 FD3	< 0.0005	0.0006 F	<0.1 D3	0.08 FD3
	RES-009 718-718.58	N	5 FD3	<0.0005	0.0005	0.14 D3	0.09 FD3
		FD	4 FD3	<0.0005	<0.0005	0.08 FD3	0.07 FD3
	RES-009 810.42-810.98	N	12 D3	<0.0005	<0.0005	0.03 FD3	0.11 FD3
	RES-009 906.08-906.58	N	10 D3	<0.005 D3	<0.005 D3	0.04 FD3	0.07 FD3
	RES-009 987.9-988.45	N	9 D3	<0.0005	0.0001 F	0.07 FD3	0.08 FD3
	RES-009 994.67-997.67	N	5 FD3	<0.0005	0.0011	0.08 FD3	0.18 FD3
RES-009D	RES-009D 1119.32-1122.42	N	10 D3	0.0002 F	0.0008	<0.1 D3	1.68 D3
		FD	13 D3	0.0004 F	0.001	<0.1 D3	2.48 D3
	RES-009D 1128.62-1131.72	N	11 D3	0.0003 F	0.0012	<0.1 D3	4.38 D3
RES-009E	RES-009E 1307.1-1310.1	N	3 FD3	<0.005 D2	0.003 FD2	<0.1 D3	0.17 FD3
	RES-009E 1319.1-1322.1	N	3 FD3	0.0002 F	0.001	<0.1 D3	0.22 FD3
	RES-009E 1335.41-1338.16	N	2 FD3	0.0001 F	0.0016	<0.1 D3	0.3 D3
	RES-009E 1351.03-1354.03	N	2 FD3	0.0003 F	0.0006	<0.1 D3	0.05 FD3
	RES-009E 1368.07-1370.69	N	2 FD3	<0.0005	0.0011	<0.1 D3	0.11 FD3
	RES-009E 1385.61-1388.61	N	2 FD3	<0.0005	0.0005	<0.1 D3	0.22 FD3
	RES-009E 1402.22-1404.53	N	<8 D3	0.0002 F	0.0007	<0.1 D3	0.08 FD3
		FD	2 FD3	0.0002 F	0.0006	<0.1 D3	0.21 FD3
	RES-009E 1418.16-1419.8	N	2 FD3	<0.005 D2	0.002 FD2	<0.1 D3	0.12 FD3
	RES-009E 1431.42-1433.8	N	2 FD3	0.0007	0.0024	<0.1 D3	0.19 FD3
	RES-009E 1446.41-1449.41	N	3 FD3	0.0003 F	0.0014	<0.1 D3	0.17 FD3
	RES-009E 1464.41-1467.41	N	2 FD3	0.0002 F	0.0016	<0.1 D3	0.09 FD3
	RES-009E 1478.13-1481.13	N	2 FD3	0.0004 F	0.0018	<0.1 D3	0.12 FD3
	RES-009E 1496.13-1499.13	N	3 FD3	0.0003 F	0.0024	<0.1 D3	0.13 FD3
	RES-009E 1510.74-1527.19	N	18 D3	<0.003 D3	0.003 D3	<0.1 D3	0.08 FD3
	RES-009E 1514.13-1517.13	N	3 FD3	0.0001 F	0.0012	<0.1 D3	0.09 FD3
	RES-009E 1532.4-1534.49	N	2 FD3	<0.0005	0.002	<0.1 D3	0.16 FD3
		FD	2 FD3	<0.0005	0.0021	<0.1 D3	0.15 FD3
	RES-009E 1547.47-1550.47	N	2 FD3	0.0002 F	0.0037	<0.1 D3	1.97 D3
	RES-009E 1565.47-1568-47	N	3 FD3	<0.0005	0.0016	<0.1 D3	13.9 D3
	RES-009E 1597.32-1599.88	N	3 FD3	<0.0005	0.0012	<0.1 D3	9.27 D3
	RES-009E 1602.44-1605	N	2 FD3	<0.005 D3	0.001 FD3	<0.1 D3	5.25 D3
	RES-009E 1617.38-1619-.14	N	3 FD3	0.0002 F	0.0015	<0.1 D3	2.47 D3
	RES-009E 1634.46-1637.47	N	3 FD3	0.0002 F	0.002	<0.1 D3	1.51 D3
	RES-009E 1650.14-1652.81	N	2 FD3	0.0003 F	0.0021	<0.1 D3	4.03 D3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX B
NET ACID GENERATION RESULTS

Hole ID	Sample ID	Type	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E		FD	2 FD3	0.0001 F	0.0021	<0.1 D3	4.11 D3
	RES-009E 1669.07-1672.07	N	3 FD3	0.0003 F	0.0014	<0.1 D3	12 D3
	RES-009E 1685.09-1687-47	N	2 FD3	0.0007	0.0007	<0.1 D3	0.06 FD3
	RES-009E 1697.61-1700.61	N	4 FD3	0.0001 F	0.0013	<0.1 D3	0.12 FD3
	RES-009E 1718.61-1721.61	N	3 FD3	<0.005 D3	<0.005 D3	0.03 FD3	0.22 FD3
	RES-009E 1739.63-1742.63	N	3 FD3	0.0003 F	0.0005	<0.1 D3	0.27 FD3
	RES-009E 1760.86-1763.86	N	3 FD3	<0.0005	0.0007	<0.1 D3	0.4 D3
		FD	3 FD3	<0.0005	0.0008	<0.1 D3	0.49 D3
	RES-009E 1789.83-1792.31	N	3 FD3	<0.0005	0.0014	<0.1 D3	0.19 FD3
	RES-009E 1798.16-1799.79	N	3 FD3	0.0019	0.0008	<0.1 D3	15.1 D3
	RES-009E 1801.42-1804.15	N	3 FD3	0.0012	0.0199	<0.1 D3	8.48 D3
	RES-009E 1818.62-1821.62	N	3 FD3	0.0005	0.0231	<0.1 D3	0.52 D3
	RES-009E 1829.95-1832.48	N	4 FD3	0.0003 F	0.0446	<0.1 D3	1.85 D3
	RES-009E 1846.66-1849.66	N	5 FD3	0.0003 F	0.0772	<0.1 D3	21.5 D3
	RES-009E 1862.15-1865.15	N	4 FD3	0.0006 FD3	<0.003 D3	<0.1 D3	0.18 FD3
	RES-009E 1867.87-1884.35	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.22 FD3
	RES-009E 1880.15-1882.37	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.17 FD3
		FD	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.08 FD3
	RES-009E 1899-1901.88	N	3 FD3	<0.003 D3	0.0062 D3	<0.1 D3	1 D3
	RES-009E 1929.76-1932.58	N	3 FD3	<0.003 D3	0.0054 D3	<0.1 D3	12.2 D3
	RES-009E 1947.67-1950.67	N	17 D3	<0.003 D3	<0.003 D3	<0.1 D3	0.12 FD3
	RES-009E 1954.6-1956	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.09 FD3
	RES-009E 1967.76-1969.72	N	3 FD3	<0.003 D3	0.0011 FD3	<0.1 D3	0.39 D3
	RES-009E 1974.78-1977.89	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	0.09 FD3
	RES-009E 1984.74-1987.74	N	3 FD3	<0.003 D3	<0.003 D3	<0.1 D3	1.71 D3
	RES-009E 2056.38-2075	N	2 FD3	<0.003 D3	0.0075 D3	<0.1 D3	0.38 D3

B7	Target analyte detected in method blank at or above the method reporting imit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
M1	Matrix spike recovery was high. Method control sample recovery was acceptable.
M2	Matrix spike recovery was low. Method control sample recovery was acceptable.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA 8000B.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS									
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Total (as CaCO3) MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L
RES-001C	RES-001C 1502-1505	N	8 FB4	3 F	<20	<20	3 F	7.5	23.2	11	97	40
	RES-001C 1530-1533	N	<10	23	<20	<20	22	8.7	23.2	25	127	60
	RES-001C 1557-1560	N	<10	29	<20	<20	29	8.5	23.2	51	184	100
	RES-001C 1584-1587	N	<10	29	<20	<20	28	9	23.2	24	120	60
		FD	<10	29	<20	<20	27	9	23.2	25	128	70
	RES-001C 1611-1614	N	<10	27	<20	<20	25	9	23.2	30	146	80
	RES-001C 1639-1642	N	<10	32	2 F	<20	30	9	23.2	25	128	70
	RES-001C 1666-1669	N	<10	28	2 F	<20	26	9.1	23.2	28	130	70
	RES-001C 1693-1696	N	<10	31	<20	<20	30	9.1	23.2	28	130	70
	RES-001C 1711-1714.96	N	<10	13 F	<20	<20	13 F	8.5	23.2	306	655	460
	RES-001C 1745-1748	N	8 FB4	9 F	<20	<20	9 F	8.1	23.2	1250	1960	1790
	RES-001C 1771.75-1791.4	N	2 FB4	12 F	11 F	<20	<20	7.2	21.4	1320	2120	2070
	RES-001C 1781-1784	N	<10	14 F	10 F	<20	4 F	8.9	23.6	1610	2520	2570
	RES-001C 1799-1802	N	7 FB4	29	4 F	<20	25	8.9	23.6	79	170	90
		FD	<10	25	5 F	<20	19 F	8.8	23.6	67	163	80
	RES-001C 1814-1817	N	<10	13 F	4 F	<20	9 F	8.5	23.6	805	1400	1180
	RES-001C 1837-1840	N	2 FB4	11 F	<20	<20	10 F	8.5	23.6	1310	2170	2080
	RES-001C 1855-1858	N	4 FB4	13 F	5 F	<20	8 F	8.7	23.6	240	552	380
	RES-001C 1873-1876	N	<10	38	12 F	<20	26	9.1	23.6	117	174	90
	RES-001C 1892.5-1895	N	<10	30	10 F	<20	20	9	23.6	62	212	130
	RES-001C 1934-1937	N	<10	27	<20	<20	25	8.3	23.6	52	155	90
	RES-001C 1987-1990	N	<10	28	2 F	<20	26	8.5	23.6	60	216	110
	RES-001C 2007-2010	N	<10	23	<20	<20	21	8.6	23.6	70	270	140
		FD	<10	38	10 F	<20	28	8.7	23.6	70	258	130
	RES-001C 2041-2044	N	13 B4	22	<20	<20	22	8.4	23.6	196	530	350
	RES-001C 2115-2118	N	<10	32	4 F	<20	28	8.7	23.6	67	229	120
	RES-001C 2164.4-2166.3	N	562 B7	<20	<20	<20	<20	3.9	23.6	127	1140	1110
	RES-001C 2214-2215	N	14 B4	9 F	<20	<20	9 F	6	23.6	1400	2450	2450
	RES-001C 2242-2244	N	8 FB4	4 F	<20	<20	4 F	6	23.6	1570	<0.05	2250

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS													
Hole ID	Sample ID	Type	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	RES-001C 1502-1505	N	<0.2	<0.002	<0.001	0.032	<0.01	<0.05	<0.0005	3.7	<3	<0.05	<0.05	0.01 F	0.2 F	<0.05	0.0008 B5
	RES-001C 1530-1533	N	0.53	<0.002	0.0015	0.009 F	<0.01	<0.05	<0.0005	9.2	<3	<0.05	<0.05	<0.05	0.9	0.1	0.0008 B5
	RES-001C 1557-1560	N	0.16 F	<0.002	<0.001	0.007 F	<0.01	<0.05	<0.0005	18.6	0.5 F	<0.05	<0.05	<0.05	1	<0.05	0.0002 FB5
	RES-001C 1584-1587	N	0.43	<0.002	<0.001	0.009 F	<0.01	<0.05	<0.0005	8.8	<3	<0.05	<0.05	<0.05	1.2	0.11	0.0011 B5
		FD	0.33	<0.002	<0.001	0.006 F	<0.01	<0.05	<0.0005	9.3	<3	<0.05	<0.05	<0.05	1.2	0.08	0.0038 B7
	RES-001C 1611-1614	N	0.32	0.0007 F	0.0006 F	0.027	<0.01	<0.05	<0.0005	11.3	<3	<0.05	<0.05	<0.05	1.1	0.05	0.001 B5
	RES-001C 1639-1642	N	0.35	0.0006 F	<0.001	0.03	<0.01	<0.05	<0.0005	9.5	<3	<0.05	<0.05	<0.05	1.1	0.06	0.0007 B5
	RES-001C 1666-1669	N	0.31	<0.002	<0.001	0.012 F	<0.01	<0.05	<0.0005	10.7	<3	<0.05	<0.05	<0.05	1.1	0.05	0.0011 B5
	RES-001C 1693-1696	N	0.37	0.0007 F	<0.001	0.067	<0.01	<0.05	<0.0005	10.5	<3	<0.05	<0.05	<0.05	1.4	0.04 F	0.0009 B5
	RES-001C 1711-1714.96	N	0.09 F	0.001 F	<0.001	0.003 F	<0.01	<0.05	<0.0005	120	<3	<0.05	<0.05	<0.05	0.4 F	<0.05	0.0005 B5
	RES-001C 1745-1748	N	0.16 F	<0.002	<0.001	0.012 F	<0.01	<0.05	<0.0005	495	<30 D1	<0.05	<0.05	0.01 F	<5 D1	<0.05	0.0009 B5
	RES-001C 1771.75-1791.4	N	<0.2	0.0005 F	<0.001	0.012 F	<0.01	0.01 F	<0.0005	516	5.8	<0.05	0.01 F	<0.05	0.5	<0.05	0.0001 F
	RES-001C 1781-1784	N	<0.2	<0.004 D1	<0.002 D1	0.009 F	<0.01	<0.05	<0.001 D1	622 M3	7.1	<0.05	<0.05	<0.05	1.1	<0.05	<0.001 D1
	RES-001C 1799-1802	N	0.03 F	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	21.2	4.5	<0.05	<0.05	<0.05	1	<0.05	0.0003 F
		FD	<0.2	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	18	4.6	<0.05	<0.05	0.02 F	1.1	<0.05	0.0078
	RES-001C 1814-1817	N	0.03 F	<0.002	<0.001	0.007 F	<0.01	<0.05	<0.0005	307	0.7 F	<0.05	<0.05	0.03 F	1.1	<0.05	0.0131 R1
	RES-001C 1837-1840	N	0.03 F	<0.004 D1	<0.002 D1	0.005 F	<0.01	<0.05	<0.001 D1	503	1.1 F	<0.05	<0.05	0.02 F	0.7	<0.05	0.0036 D1
	RES-001C 1855-1858	N	0.04 F	0.0005 F	<0.001	0.038	<0.01	<0.05	<0.0005	85.4	3.1	<0.05	<0.05	0.04 F	1	0.03 F	0.0207
	RES-001C 1873-1876	N	5.37	<0.002	<0.001	0.009 F	<0.01	<0.05	<0.0005	16.7	<3	0.01 F	<0.05	0.32	3.2	7.15	0.0073
	RES-001C 1892.5-1895	N	0.04 F	0.0004 F	<0.001	0.015 F	<0.01	<0.05	<0.0005	16.4	<3	<0.05	<0.05	0.02 F	1	0.03 F	0.0029
	RES-001C 1934-1937	N	0.07 F	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	18.9	0.8 F	<0.05	<0.05	0.04 F	0.3 F	0.05	0.0011
	RES-001C 1987-1990	N	0.23	<0.002	<0.001	0.004 F	<0.01	<0.05	<0.0005	19.2	<3	<0.05	<0.05	0.01 F	0.6	<0.05	0.002
	RES-001C 2007-2010	N	0.18 F	<0.002	<0.001	0.06	<0.01	<0.05	<0.0005	23.7	<3	<0.05	<0.05	0.02 F	0.5	<0.05	0.0011
		FD	0.19 F	<0.002	<0.001	0.064	<0.01	<0.05	<0.0005	23.7	<3	<0.05	<0.05	0.01 F	0.5	<0.05	0.0013
	RES-001C 2041-2044	N	0.12 F	<0.002	<0.001	0.04	<0.01	0.01 F	<0.0005	69.8	<3	<0.05	<0.05	0.01 F	0.5	<0.05	0.0013
	RES-001C 2115-2118	N	0.06 F	<0.002	<0.001	0.028	<0.01	<0.05	<0.0005	19.6	<3	<0.05	<0.05	0.02 F	1.2	0.08	0.0062
	RES-001C 2164.4-2166.3	N	29.3	0.0013 F	0.0006 F	0.017 F	0.004 F	<0.05	0.0021	42.2	<3	0.1	1.19	26.9	48 D1M1	186	0.0046
	RES-001C 2214-2215	N	0.04 F	<0.004 D1	<0.002 D1	<0.02	<0.01	<0.05	<0.001 D1	538	<3	<0.05	<0.05	0.04 F	<0.5	0.07	0.0037 D1
	RES-001C 2242-2244	N	11.7	<0.004 D1	<0.002 D1	0.019 F	<0.01	<0.05	0.0003 FD1	610	<3	<0.05	0.02	0.09	1.8	<0.05	0.0029

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS													
Hole ID	Sample ID	Type	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	RES-001C 1502-1505	N	0.5 F	0.046	<0.001	<0.05	<0.05	14.3	0.001	8.4	<0.03	2.6	28	<0.0005	<0.0005	<0.03	0.05 B5
	RES-001C 1530-1533	N	0.6 F	0.01 F	<0.001	<0.05	<0.05	13.1	0.0025	8.9	<0.03	6.4	22.3	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-001C 1557-1560	N	1.2	0.065	<0.001	0.01 F	<0.05	13.5	0.0018	5.8	<0.03	4.8	44.3	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-001C 1584-1587	N	0.5 F	0.017 F	<0.001	<0.05	<0.05	11	0.0014	7.1	<0.03	6.9	17.7	<0.0005	<0.0005	<0.03	0.05 B5
		FD	0.4 F	0.012 F	<0.001	0.01 F	<0.05	13.2	0.0014	6.9	<0.03	7.2	19.4	<0.0005	<0.0005	<0.03	0.09 B5
	RES-001C 1611-1614	N	0.3 F	0.01 F	<0.001	0.02 F	<0.05	14.2	0.0023	7.8	<0.03	6.5	25.2	<0.0005	0.0001 F	<0.03	0.04 FB5
	RES-001C 1639-1642	N	0.3 F	0.02 F	<0.001	<0.05	<0.05	14.7	0.0014	7.5	<0.03	5.3	16.6	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-001C 1666-1669	N	0.3 F	0.034	<0.001	0.02 F	<0.05	13.9	0.003	7.3	<0.03	3.8	19.2	<0.0005	<0.0005	<0.03	0.06 B5
	RES-001C 1693-1696	N	0.4 F	0.032	<0.001	0.02 F	<0.05	14.5	0.0021	8.1	<0.03	4	19.2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-001C 1711-1714.96	N	1.4	0.015 F	<0.001	<0.05	<0.05	11.1	0.0014	7.1	<0.03	7.3	326 D1M2	<0.0005	0.0003 F	<0.03	0.03 FB5
	RES-001C 1745-1748	N	2.8	0.061	<0.001	0.02 F	<0.05	16.1	0.0009	5.8	<0.03	4	1230 D1	<0.0005	0.0002 F	<0.03	0.03 FB5
	RES-001C 1771.75-1791.4	N	8.3	<0.03	<0.001	0.17	<0.05	6.7	0.0044	20.3	<0.03	3.1	1320 D2	<0.0005	<0.0005	<0.03	0.02 F
	RES-001C 1781-1784	N	13.6	<0.03	<0.001	0.03 F	<0.05	8.6	0.0032 D1	29.2 M2	<0.03	2.9	1590 D1	0.001 <D1	0.001 <D1	<0.03	0.03 F
	RES-001C 1799-1802	N	6.2	0.007 F	<0.001	0.12	<0.05	2.7	0.0024	9.8	<0.03	2.9	35.1	<0.0005	<0.0005	<0.03	0.02 F
		FD	5.4	0.007 F	<0.001	0.1	<0.05	2.4	0.0018	9.1	<0.03	2.6	32.6	0.0003 F	<0.0005	<0.03	0.12
	RES-001C 1814-1817	N	9.2	0.007 F	<0.001	0.03 F	<0.05	14.2	0.002	13.3	<0.03	9.7	820 D1	0.0001 F	0.0002 F	<0.03	0.17 R1
	RES-001C 1837-1840	N	12.4	0.022 F	<0.001	0.03 F	<0.05	12.4	0.0032 D1	11.6	<0.03	3.1	1430 D1	0.001 <D1	0.001 <D1	<0.03	0.07
	RES-001C 1855-1858	N	6.5	<0.03	<0.001	0.02 F	<0.05	4.9	0.0043	15.5	<0.03	5.8	245 D1	<0.0005	<0.0005	<0.03	0.25
	RES-001C 1873-1876	N	18.2	0.202	<0.001	0.03 F	<0.05	13	0.0026	34.8	<0.03	6.9	24.7	<0.0005	0.0001 F	0.017 F	0.19
	RES-001C 1892.5-1895	N	5.2	<0.03	<0.001	0.07	<0.05	11.3	0.0045	19.7	<0.03	3.7	46.9	<0.0005	<0.0005	<0.03	0.07
	RES-001C 1934-1937	N	1.2	0.348	<0.001	0.09	<0.05	4.9	0.0025	7.4	<0.03	0.5 F	31.5	<0.0005	<0.0005	<0.03	0.06
	RES-001C 1987-1990	N	3	0.022 F	<0.001	0.06	<0.05	18.8	0.0037	3.3	<0.03	1 F	51	<0.0005	<0.0005	<0.03	0.08
	RES-001C 2007-2010	N	2.6	0.012 F	<0.001	0.02 F	<0.05	20.9	0.0026	4	<0.03	1.1 F	75.6	<0.0005	<0.0005	<0.03	0.06
		FD	2.6	0.012 F	<0.001	0.02 F	<0.05	21.3	0.0027	4.2	<0.03	1.1 F	66.1	<0.0005	<0.0005	<0.03	0.06
	RES-001C 2041-2044	N	5.3	0.022 F	<0.001	0.02 F	<0.05	22.7	0.0015	4.6	<0.03	1.4 F	204 D1	<0.0005	<0.0005	<0.03	0.05
	RES-001C 2115-2118	N	4.4	0.009 F	<0.001	0.14	<0.05	13.6	0.0015	6.3	<0.03	3.2	53.6	<0.0005	<0.0005	<0.03	0.14
	RES-001C 2164.4-2166.3	N	5.2	0.998	<0.001	0.02 F	0.25	<2	0.0006	4.9	<0.03	<2	970 D1	<0.0005	0.0045	<0.03	1.18
	RES-001C 2214-2215	N	12.9	0.066	<0.001	0.03 F	<0.05	1.2 F	0.0087 D1	22.1	<0.03	0.5 F	1550 D1	<0.001 D1	<0.001 D1	<0.03	0.08
	RES-001C 2242-2244	N	10.5	0.902	<0.001	0.01 F	0.01 F	18.2	0.0705	6.5	<0.03	0.5 F	1640 D1	0.001 F	0.0041	<0.03	0.06

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS											
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L	Antimony MG/L
RES-002A	RES-002A 858-861	N	<10	<20	<20	8 F	8 F	6.6	23.2	24	29	40	0.58	0.002
	RES-002A 888-891	N	<10	2 F	<20	6 F	6 F	6.2	23.2	14	51	70	0.14 F	0.0005 F
	RES-002A 927-930	N	2 FB4	<20	<20	7 F	7 F	6.2	23.2	13	58	60	0.21	0.0006 F
	RES-002A 965-968	N	6 FB4	<20	<20	4 F	4 F	6.4	23.2	1670	73	50	0.03 F	0.002
	RES-002A 992-995	N	<10	<20	<20	5 F	5 F	6.9	23.2	1630	42	20	0.11 F	0.0029
		FD	2 FB4	<20	<20	5 F	5 F	7.1	23.2	1500	42	40	0.1 F	0.0028
	RES-002A 1007-1010	N	<10	<20	<20	4 F	4 F	8.2	23	<1	53	40	0.07 F	0.0017 F
	RES-002A 1058-1061	N	16 B4	<20	<20	5 F	5 F	8.3	23	<1	68	50	0.03 F	0.002
	RES-002A 1109-1112	N	6 FB4	<20	<20	4 F	4 F	8.3	23	<1	59	40	0.2	0.0006 F
	RES-002A 1154-1156	N	2 FB4	<20	<20	4 F	4 F	7.7	23	7	82	60	0.2	0.002
	RES-002A 1414.6-1417	N	18 B4	<20	<20	<20	<20	7.9	23	1	120	70	0.18 F	0.002
	RES-002A 1201-1203	N	119 B7	<20	<20	<20	<20	7.8	23	1	328	230	5.32	0.001 F
		FD	111 B7	<20	<20	<20	<20	7.7	23	3	317	220	4.43	0.0008 F
	RES-002A 1246-1249	N	16 B4	<20	<20	<20	<20	7.4	23	6	93	70	0.39	0.0011 F
	RES-002A 1291-1292	N	51 B4	<20	<20	<20	<20	7.1	23	6	119	80	2.93	0.0005 F
	RES-002A 1325-1328	N	41 B4	<20	<20	<20	<20	6.9	23	10	143	100	0.48	0.002
	RES-002A 1363-1366	N	14 B4	<20	<20	2 F	2 F	4.2	23	19	92	60	0.24	0.002
	RES-002A 1395-1397	N	97 B4	<20	<20	<20	<20	4.2	23	18	251	180	7.68	0.002
	RES-002A 1454-1457	N	12 B4	<20	<20	<20	<20	4.8	23	12	107	70	0.49	0.0005 F
	RES-002A 1538-1541	N	10 B4	<20	<20	<20	<20	4.5	23	8	111	80	1.18	0.002
	RES-002A 1583-1586	N	8 FB4	<20	<20	<20	<20	4.9	23	10	112	60	1.12	0.002
	RES-002A 1627-1630	N	10 B4	<20	<20	<20	<20	5.1	23	11	109	60	0.2	0.002
	RES-002A 1732-1735	N	4 FB4	<20	<20	2 F	2 F	4.2	23	9	133	70	0.04 F	0.002
		FD	6 FB4	<20	<20	3 F	3 F	5.2	23	11	138	60	0.2	0.002
	RES-002A 1781-1784	N	8 FB4	<20	<20	<20	<20	6	23	11	94	40	0.73	0.002
	RES-002A 1814-1817	N	8 FB4	<20	<20	<20	<20	6.1	23	19	80	30	0.65	0.002
	RES-002A 1876-1879	N	37 B4	<20	<20	2 F	2 F	5.2	23.2	14	2490	2500	0.2	0.002
	RES-002A 1927-1930	N	<10	<20	<20	13 F	13 F	6	23.2	16	2470	2430	0.03 F	0.002
	RES-002A 1981-1984	N	<10	<20	<20	14 F	14 F	6.4	23.2	24	2340	2240	0.05 F	0.002

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.
B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS															
Hole ID	Sample ID	Type	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Nickel MG/L
RES-002A	RES-002A 858-861	N	0.0183	0.003 F	0.01	0.05	0.0005	<1	0.6 F	0.05	0.05	0.05	0.3 F	0.16 B5	0.0007	<1	0.03	0.001	0.05
	RES-002A 888-891	N	0.0443	0.016 F	0.01	0.05	0.0005	<1	<3	0.05	0.05	0.05	0.1 F	0.03 FB5	0.0015	<1	0.03	0.001	0.05
	RES-002A 927-930	N	0.0408	0.049	0.01	0.01 F	0.0005	<1	0.6 F	0.05	0.05	0.05	0.2 F	0.04 FB5	0.0012	<1	0.03	0.001	0.05
	RES-002A 965-968	N	0.001	0.122	0.01	0.05	0.0005	2.3	<3	0.05	0.05	0.22	0.5	0.05	0.0003 F	0.3 F	0.015 F	0.001	0.05
	RES-002A 992-995	N	0.0072	0.01 F	0.01	0.05	0.0005	0.4 F	<3	0.05	0.05	0.05	0.7	0.05 B5	0.0063	<1	0.03	0.001	0.05
		FD	0.0059	0.009 F	0.01	0.05	0.0005	0.5 F	<3	0.05	0.05	0.05	0.8	0.04 FB5	0.0046	<1	0.03	0.001	0.05
	RES-002A 1007-1010	N	0.0134	0.124	0.01	0.05	0.0005	1	<3	0.05	0.05	0.05	0.1 F	0.05	0.0006	<1	0.03	0.001	0.05
	RES-002A 1058-1061	N	0.0006 F	0.059	0.01	0.01 F	0.0005	2	<3	0.05	0.05	0.04 F	0.2 F	0.05	0.0004 F	0.3 F	0.009 F	0.001	0.05
	RES-002A 1109-1112	N	0.001	0.013 F	0.01	0.05	0.0005	1.9	<3	0.05	0.05	0.04 F	0.1 F	0.05	0.0005	0.3 F	0.019 F	0.001	0.05
	RES-002A 1154-1156	N	0.001	0.148	0.01	0.05	0.0005	3	<3	0.05	0.05	0.05	0.5	0.5 B5	0.0007	0.6 F	0.181	0.001	0.05
	RES-002A 1414.6-1417	N	0.001	0.01 F	0.01	0.05	0.0005	3	<3	0.05	0.01 F	0.38	0.5	3.05 B5	0.0002 F	0.8 F	0.372	0.001	0.05
	RES-002A 1201-1203	N	0.0012	0.004 F	0.01	0.05	0.0007	6.4	<3	0.02 F	0.05	54.9	0.5	14.1 B5	0.0022	0.8 F	0.443	0.001	0.04 F
		FD	0.0011	0.004 F	0.01	0.05	0.0005	6.2	<3	0.02 F	0.05	54.8	0.5	12.6 B5	0.0013	0.7 F	0.449	0.001	0.04 F
	RES-002A 1246-1249	N	0.001	0.092	0.01	0.05	0.0001 F	3.6	<3	0.05	0.03 F	11.1	0.1 F	0.28 B5	0.0035	0.6 F	0.152	0.001	0.01 F
	RES-002A 1291-1292	N	0.0006 F	0.03	0.01	0.05	0.0001 F	3.3	<3	0.05	0.03 F	12.9	0.7	4.02 B5	0.0003 F	<1	0.275	0.001	0.03 F
	RES-002A 1325-1328	N	0.001	0.029	0.01	0.05	0.0001 F	3.1	<3	0.05	0.03 F	26.7	0.4 F	0.38 B5	0.001	0.5 F	0.169	0.001	0.02 F
	RES-002A 1363-1366	N	0.001	0.061	0.01	0.05	0.0005	3.5	<3	0.05	0.03 F	10.1	0.5	0.24 B5	0.0015	0.6 F	0.138	0.001	0.01 F
	RES-002A 1395-1397	N	0.001	0.004 F	0.01	0.05	0.0001 F	2.9	<3	0.01 F	0.04 F	30	0.5	16.1 B5	0.0014	0.4 F	0.397	0.001	0.06
	RES-002A 1454-1457	N	0.001	0.009 F	0.01	0.05	0.0005	3	<3	0.05	0.05	0.02 F	0.7	5.26 B5	0.0013	0.8 F	0.553	0.001	0.05
	RES-002A 1538-1541	N	0.002	0.079	0.01	0.05	0.0038	6.4	<3	0.05	0.02 F	0.35	4	0.05 B5	0.0005	0.8 F	0.065	0.001	0.05
	RES-002A 1583-1586	N	0.001	0.07 N1	0.01	0.05	0.0032 N1	4.3	<3	0.05	0.02 F	1.12	2.1	0.15	0.0003 FB5	0.9 F	0.248	0.001	0.05
	RES-002A 1627-1630	N	0.001	0.125	0.01	0.05	0.0005	5.1	0.6 F	0.05	0.05	0.05	1.9	3.09	0.0002 FB5	0.7 F	0.353	0.001	0.05
	RES-002A 1732-1735	N	0.001	0.004 F	0.01	0.05	0.0005	5	<3	0.05	0.05	0.01 F	3.1	0.05	0.0003 FB5	2.8	0.406	0.001	0.05
		FD	0.001	0.003 F	0.01	0.05	0.0005	4.8	<3	0.05	0.05	0.05	3.1	0.05	0.0003 FB5	2.9	0.366	0.001	0.05
	RES-002A 1781-1784	N	0.001	0.076	0.01	0.05	0.0015	4.6	0.8 F	0.05	0.01 F	0.02 F	3.8	0.03 F	0.0003 FB4	0.6 F	0.421	0.001	0.05
	RES-002A 1814-1817	N	0.001	0.011 F	0.01	0.05	0.0008	4.3	0.8 F	0.05	0.05	0.2	4	0.05	0.0002 FB5	0.5 F	0.194	0.001	0.05
	RES-002A 1876-1879	N	0.001	0.016 F	0.01	0.05	0.0005	655	<30 D1	0.05	0.05	0.05	<5 D1	12.5	0.0002 FB5	8.3	1.12	0.001	0.05
	RES-002A 1927-1930	N	0.001	0.014 F	0.01	0.05	0.0005	638	<30 D1	0.05	0.05	0.05	<5 D1	0.17	0.0003 FB5	7.3	0.221	0.001	0.05
	RES-002A 1981-1984	N	0.001	0.011 F	0.01	0.05	0.0005	591	<30 D1	0.05	0.05	0.05	<5 D1	0.05	0.0013 B5	6.5	0.144	0.001	0.05

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
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N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	Molybdenum MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	RES-002A 858-861	N	0.05	5	0.0041	8.3	0.03	2.2	0.7 F	0.0005	0.0005	0.03	0.03 F
	RES-002A 888-891	N	0.05	8.1	0.0324	6.4	0.03	2.8	8.3	0.0005	0.0005	0.03	0.04 F
	RES-002A 927-930	N	0.05	11.4	0.0036	6.8	0.03	2.1	10.9	0.0006	0.0005	0.03	0.03 F
	RES-002A 965-968	N	0.05	12.9	0.0007	6.6	0.03	1.1 F	18.4	0.0003 F	0.0005	0.03	0.04 F
	RES-002A 992-995	N	0.05	6.6	0.0062	4.1	0.03	1.9 F	6.4	0.0002 F	0.0005	0.005 F	0.03 F
		FD	0.05	7.1	0.0064	4.2	0.03	1.9 F	6.9	0.0005	0.0005	0.03	0.02 F
	RES-002A 1007-1010	N	0.05	9.8	0.0163	4.9	0.03	1.3 F	11.6	0.0005	0.0005	0.03	0.02 F
	RES-002A 1058-1061	N	0.05	11.4	0.0098	5.1	0.03	1.7 F	16.7	0.0005	0.0005	0.03	0.05
	RES-002A 1109-1112	N	0.05	10.2	0.0149	5.8	0.03	0.9 F	13.4	0.0005	0.0005	0.03	0.03 F
	RES-002A 1154-1156	N	0.05	14.6	0.0017	8.5	0.03	0.7 F	21.8	0.0005	0.0005	0.03	0.04 F
	RES-002A 1414.6-1417	N	0.05	14.2	0.0003 F	4	0.03	0.6 F	47	0.0005	0.0005	0.03	0.04 F
	RES-002A 1201-1203	N	0.05	1.6 F	0.0007	3	0.03	<2	203 D1	0.0005	0.0088	0.03	0.22
		FD	0.05	1.3 F	0.0006	2.5	0.03	<2	193 D1	0.0005	0.0078	0.03	0.18
	RES-002A 1246-1249	N	0.05	5.5	0.0003 F	4.8	0.03	0.4 F	40.3	0.0005	0.0002 F	0.03	0.04 F
	RES-002A 1291-1292	N	0.05	0.8 F	0.0004 F	3.2	0.03	<2	63.1	0.0005	0.0006	0.03	0.08
	RES-002A 1325-1328	N	0.05	7.3	0.0005	3.5	0.03	<2	66.4	0.0001 F	0.0004 F	0.03	0.08
	RES-002A 1363-1366	N	0.05	7	0.0007	3.8	0.03	0.4 F	40.2	0.0005	0.0001 F	0.03	0.07
	RES-002A 1395-1397	N	0.05	0.4 F	0.0006	3.1	0.03	<2	184 D1	0.0005	0.0016	0.03	0.07
	RES-002A 1454-1457	N	0.05	15.9	0.0005	5.6	0.03	0.7 F	36.4	0.0005	0.0005	0.03	0.06
	RES-002A 1538-1541	N	0.05	14.6	0.0008	4.3	0.03	0.6 F	31.7	0.0004 F	0.0005	0.03	0.04 F
	RES-002A 1583-1586	N	0.01 F	14.7 N1	0.0014	4	0.03	0.5 F	41.2	0.0005	0.0003 FN1	0.03	0.03 FB5N1
	RES-002A 1627-1630	N	0.02 F	13.4	0.0005	5.5	0.03	0.6 F	34.3	0.0005	0.0005	0.03	0.03 FB5
	RES-002A 1732-1735	N	0.05	17.7	0.0018	5.2	0.03	0.8 F	35.9	0.0004 F	0.0005	0.03	0.03 FB5
		FD	0.01 F	19.5	0.0018	5.5	0.03	0.9 F	36.5	0.0002 F	0.0005	0.03	0.04 FB5
	RES-002A 1781-1784	N	0.05	12.6	0.0002 F	3.3	0.03	0.6 F	27.3	0.0005	0.0005	0.03	0.06 B5
	RES-002A 1814-1817	N	0.01 F	10.3	0.0002 F	3.3	0.03	0.5 F	18.7	0.0005	0.0005	0.03	0.03 FB5
	RES-002A 1876-1879	N	0.05	22.5	0.0027	6.4	0.03	0.9 F	1730 D1	0.0005	0.0005	0.03	0.03 FB5
	RES-002A 1927-1930	N	0.05	26.3	0.002	5.3	0.03	6.2	1640 D1	0.0005	0.0005	0.03	0.04 FB5
	RES-002A 1981-1984	N	0.02 F	29.2	0.0014	4.4	0.03	6.6	1530 D1	0.0005	0.0001 F	0.03	0.05 B5

DEG C degrees Celcius.
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UMHOS/CM micro ohms per centimeter.
B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS											
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L	Antimony MG/L
RES-005I	RES-005I 1011.88-1012.45	N	<10	18 F	<20	43	25	9.5	23	8	125	110	0.32	0.0009 F
	RES-005I 1322.73-1323.23	N	<10	11 F	<20	31	20	9.3	23	21	100	90	0.18 F	<0.002
	RES-005I 1353-1353.49	N	<10	13 F	<20	31	18 F	9.3	23	17	91	80	0.09 F	0.0004 F
	RES-005I 1360.5-1361.51	N	<10	14 F	<20	32	19 F	9.4	23	17	105	90	0.17 F	0.0006 F
	RES-005I 1370.93-1374	N	2 F	<20	<20	5 F	3 F	8.9	23	3 F	72	90	0.31	<0.002
	RES-005I 1380-1383	N	2 F	<20	<20	4 F	3 F	8.4	23	9	73	80	0.06 F	0.0004 F
	RES-005I 1389-1391.57	N	12	<20	<20	3 F	3 F	8.3	23	12	54	60	0.04 F	0.0005 F
	RES-005I 1396.3-1399.3	N	6 F	<20	<20	<20	<20	7.9	23	12	53	50	<0.2	0.0004 F
	RES-005I 1405-1406.67	N	2 F	<20	<20	3 F	3 F	8.1	23	11	63	50	<0.2	0.0007 F
	RES-005I 1410.18-1413.18	N	4 F	<20	<20	4 F	3 F	7.6	23	5 F	53	60	0.03 F	0.0005 F
	RES-005I 1419.18-1422.18	N	<10	<20	<20	5 F	4 F	7.5	23	4 F	50	80	0.06 F	0.0011 F
	RES-005I 1425.5-1426.51	N	4 F	<20	<20	4 F	3 F	7.3	23	4 F	51	80	<0.2	0.0013 F
	RES-005I 1428.18-1431.18	N	6 F	<20	<20	4 F	4 F	7.2	23	6 F	50	70	<0.2	0.0007 F
	RES-005I 1446.13-1449.13	N	2 F	<20	<20	5 F	5 F	7.4	23	7	63	90	0.27	<0.002
	RES-005I 1437.13-1440.13	N	4 F	<20	<20	4 F	4 F	7.8	23	3 F	73	90	0.14 F	0.0005 F
	RES-005I 1455.13-1458.13	N	<10	<20	<20	5 F	4 F	7.8	23	<7	68	100	0.26	0.0005 F
	RES-005I 1464.13-1467.13	N	2 F	2 F	<20	5 F	3 F	7.9	23	<7	58	100	0.36	<0.002
	RES-005I 1473.13-1476.13	N	8 F	<20	<20	5 F	4 F	8.6	23	3 F	71	120	0.16 F	<0.002
	RES-005I 1481-1482.66	N	2 F	2 F	<20	6 F	4 F	8.2	23	<7	36	90	0.17 F	<0.002
	RES-005I 1485.5-1486.51	N	4 F	<20	<20	6 F	4 F	7.9	23	<7	37	90	0.2	<0.002
	RES-005I 1487.1-1490.1	N	4 FB4	<20	<20	4 F	4 F	7.5	23	1 F	78	90	0.55 M1N1	<0.002
	RES-005I 1490.1-1493.1	N	<10	<20	<20	5 F	4 F	7.6	23	<7	73	100	0.34	<0.002
	RES-005I 1499-1502	N	<10	<20	<20	5 F	4 F	8.1	23	<7	53	70	0.79	<0.002
	RES-005I 1506.56-1509.47	N	2 FB4	<20	<20	4 F	4 F	7.9	23	<7	60	80	0.84	<0.002
	RES-005I 1515.47-1518.47	N	<10	<20	<20	5 F	4 F	7.9	23	<7	74	100	0.71	<0.002
	RES-005I 1524.47-1527.47	N	2 FB4	<20	<20	5 F	5 F	8	23	<7	74	100	0.94	<0.002
	RES-005I 1532.98-1534.97	N	<10	<20	<20	5 F	5 F	7.9	23	1 F	74	90	1.03	<0.002
	RES-005I 1544-1546.55	N	2 FB4	<20	<20	4 F	4 F	7.6	23	1 F	57	60	0.51	<0.002
	RES-005I 1552.55-1555.58	N	4 FB4	<20	<20	5 F	5 F	8	23	<7	55	80	0.56	<0.002
	RES-005I 1559.46-1562.46	N	<10	<20	<20	6 F	5 F	8	23	<7	58	100	0.65	<0.002
	RES-005I 1568.46-1571.46	N	<10	<20	<20	6 F	5 F	7.9	23	<7	57	80	0.73	<0.002
	RES-005I 1577.46-1580.46	N	4 FB4	<20	<20	5 F	5 F	7.8	23	<7	42	50	0.45	<0.002
		FD	4 FB4	<20	<20	5 F	5 F	7.9	23	<7	43	80	0.45	<0.002
	RES-005I 1586.46-1589.46	N	<10	<20	<20	4 F	4 F	7.8	23	<7	74	90	0.55	<0.002
	RES-005I 1595.46-1598.46	N	2 FB4	<20	<20	5 F	5 F	8.1	23	<7	69	100	0.86	<0.002
	RES-005I 1604.46-1607.46	N	2 FB4	<20	<20	5 F	5 F	7.9	23	<7	71	110	1.57	<0.002
	RES-005I 1613.46-1616.46	N	<10	<20	<20	6 F	6 F	8.2	23	<7	49	70	0.72	<0.002
	RES-005I 1616.46-1619	N	<10	<20	<20	5 F	5 F	8.2	23	<7	63	100	0.96	<0.002

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UMHOS/CM	micro ohms per centimeter.
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B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS											
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L	Antimony MG/L
RES-005I	RES-005I 1626.54-1627.16	N	<10	<20	<20	4 F	4 F	7.5	23	2 F	56	80	0.21	0.0008 F
	RES-005I 1627.16-1630	N	<10	<20	<20	5 F	5 F	7.8	23	<7	53	70	0.68	<0.002
	RES-005I 1630.5-1631.5	N	6 FB4	<20	<20	4 F	4 F	8.3	24	1 F	45	40	0.51	<0.002
	RES-005I 1632.56-1635.56	N	4 FB4	<20	<20	4 F	4 F	7	24	8	101	70	0.05 F	<0.002
	RES-005I 1638.37-1641	N	6 F	<20	<20	4 F	4 F	6.5	24	11	115	80	0.11 F	<0.002
	RES-005I 1645.84-1648.08	N	2 F	<20	<20	4 F	4 F	7.1	24	5 F	73	60	0.43	<0.002
	RES-005I 1652-1654.93	N	<10	<20	<20	3 F	3 F	6.1	24	12	108	70	0.16 F	<0.002
	RES-005I 1654.93-1657.3	N	8 F	<20	<20	3 F	3 F	6.3	24	17	105	60	0.13 F	<0.002
	RES-005I 1677.8-1680.8	N	4 FB4	<20	<20	3 F	3 F	6.8	24	5 F	70	60	0.11 F	<0.002
	RES-005I 1695.23-1697.23	N	2 FB4	<20	<20	4 F	4 F	6.9	24	6F	91	80	0.47	<0.002
	RES-005I 1711.23-1713.23	N	<10	<20	<20	4 F	4 F	6.7	24	7	125	80	0.12 F	<0.002
	RES-005I 1727.23-1729.23	N	4 FB4	<20	<20	5 F	4 F	7	24	8	84	50	0.6	<0.002
	RES-005I 1730.5-1731.5	N	2 FB4	<20	<20	4 F	4 F	7.1	24	7	81	60	0.23	<0.002
	RES-005I 1743.23-1745.23	N	4 FB4	<20	<20	3 F	3 F	7.1	24	7	211	140	0.47	<0.002
	RES-005I 1759.23-1761.23	N	4 FB4	<20	<20	3 F	3 F	6.8	24	12	290	180	0.54	<0.002
	RES-005I 1775.23-1778.23	N	2 FB4	<20	<20	<20	<20	6.6	24	6F	116	60	0.24	<0.002
	RES-005I 1794.36-1796.3	N	4 FB4	<20	<20	<20	<20	6.4	24	7	104	60	<0.2	<0.002
	RES-005I 1811.3-1814.3	N	8 FB4	<20	<20	<20	<20	5.4	24	13	123	70	0.43	<0.002
	RES-005I 1830.5-1831.5	N	14 B4	<20	<20	<20	<20	5.3	24	12	124	70	0.41	<0.002
	RES-005I 1835.3-1838.3	N	6 FB4	<20	<20	<20	<20	6.1	24	9	136	90	<0.2	<0.002
	RES-005I 1855.91-1858.91	N	14 B4	<20	<20	<20	<20	6.1	24	19	153	90	<0.2	<0.002
	RES-005I 1872.9-1875.38	N	32 B4	<20	<20	<20	<20	6	24	13	192	130	<0.2	<0.002
	RES-005I 1884-1887	N	6 F	<20	<20	<20	<20	5.1	23	13	145	90	0.13 F	<0.002
	RES-005I 1875.38-1878.2	N	16	<20	<20	<20	<20	5.9	23	22	102	60	0.45	<0.002
	RES-005I 1895-1897.06	N	<10	<20	<20	3 F	3 F	6.4	23	36	156	120	<0.2	0.001 F
	RES-005I 1901.49-1902.36	N	20	<20	<20	<20	<20	6.4	23	21	168	130	0.05 F	<0.002
	RES-005I 1917.29-1919.1	N	6 F	<20	<20	3 F	3 F	6.7	23	15	135	90	0.18 F	<0.002
	RES-005I 1923.1-1925.3	N	<10	<20	<20	10 F	10 F	6.8	23	31	177	120	0.09 F	<0.002
	RES-005I 1955.06-1958.06	N	2 F	3 F	<20	8 F	5 F	7.7	23	6F	91	80	0.42	<0.002
	RES-005I 1960.5-1961.5	N	2 F	<20	<20	6 F	5 F	8	23	6F	87	90	0.29	<0.002
	RES-005I 1979.06-1982.06	N	<10	6 F	<20	38	32	8.8	23	17	125	90	0.43	<0.002
	RES-005I 2008.11-2011.11	N	<10	6 F	<20	37	30	8.8	23	29	158	110	0.35	<0.002
	RES-005I 2032.11-2035.11	N	<10	2 F	<20	39	37	8.3	23	75	291	190	0.18 F	<0.002
	RES-005I 2049.84-2052.84	N	10	<20	<20	<20	<20	7.2	23	16	182	110	0.06 F	<0.002
	RES-005I 2061.84-2064.84	N	10	<20	<20	<20	<20	7	23	17	170	120	<0.2	<0.002

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SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																
Hole ID	Sample ID	Type	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L
RES-005I	RES-005I 1011.88-1012.45	N	0.0047	0.003 F	<0.01	0.07	<0.0005	2.7	2.1 F	<0.05	<0.05	<0.05	0.6	0.15	0.0003 F	0.3 F	<0.03	<0.001	<0.05	<0.05
	RES-005I 1322.73-1323.23	N	0.0027	<0.02	<0.01	<0.05	<0.0005	6.6	1.5 F	<0.05	<0.05	<0.05	0.7	0.04 F	0.0001 F	1.1	<0.03	<0.001	0.03 F	<0.05
	RES-005I 1353-1353.49	N	0.0264	0.007 F	<0.01	<0.05	<0.0005	5.6	1.3 F	<0.05	<0.05	<0.05	0.6	0.05	0.0002 F	0.7 F	<0.03	<0.001	0.04 F	<0.05
	RES-005I 1360.5-1361.51	N	0.0281	0.046	<0.01	<0.05	<0.0005	5.7	1.1 F	<0.05	<0.05	<0.05	0.8	0.09	0.0002 F	0.7 F	<0.03	<0.001	0.03 F	<0.05
	RES-005I 1370.93-1374	N	0.003	0.063	<0.01	<0.05	<0.0005	1.1	<5 D1	0.01 F	<0.05	<0.05	2.5 D1	0.15	0.0004 F	<1	0.014 F	<0.001	<0.05	<0.05
	RES-005I 1380-1383	N	0.0028	0.081	<0.01	<0.05	<0.0005	3	<5 D1	<0.05	<0.05	<0.05	2.4 D1	0.25	0.0008	0.3 F	0.056	<0.001	<0.05	<0.05
	RES-005I 1389-1391.57	N	0.0023	0.024	<0.01	<0.05	<0.0005	4.2	0.7 F	<0.05	<0.05	<0.05	2.4	0.06	0.0001 F	0.3 F	0.052	<0.001	<0.05	<0.05
	RES-005I 1396.3-1399.3	N	0.0044	0.039	<0.01	<0.05	<0.0005	4.5	1 F	0.01 F	<0.05	0.02 F	4.3	0.02 F	<0.0005	0.2 F	0.086	<0.001	0.02 F	<0.05
	RES-005I 1405-1406.67	N	0.003	0.224	<0.01	<0.05	<0.0005	3.9	0.6 F	<0.05	<0.05	<0.05	3.4	<0.05	0.0014	0.3 F	0.092	<0.001	0.02 F	<0.05
	RES-005I 1410.18-1413.18	N	0.005	0.23	<0.01	<0.05	<0.0005	2	0.8 F	<0.05	<0.05	<0.05	1.1	0.05	0.0011	<1	0.063	<0.001	<0.05	<0.05
	RES-005I 1419.18-1422.18	N	0.0195	0.472	<0.01	<0.05	<0.0005	1.7	1 FD1	<0.05	<0.05	0.02 F	<1 D1	0.41	0.0067	<1	0.014 F	<0.001	0.03 F	<0.05
	RES-005I 1425.5-1426.51	N	0.0197	0.258	<0.01	<0.05	<0.0005	1.6	1 FD1	<0.05	<0.05	<0.05	<1 D1	0.11	0.0012	<1	0.016 F	<0.001	0.04 F	<0.05
	RES-005I 1428.18-1431.18	N	0.0057	0.302	<0.01	<0.05	<0.0005	2.3	<5 D1	<0.05	<0.05	0.04 F	<1 D1	0.1	0.0011	<1	0.07	<0.001	0.02 F	<0.05
	RES-005I 1446.13-1449.13	N	0.0084	0.088	<0.01	<0.05	<0.0005	1.2	0.7 F	<0.05	<0.05	<0.05	0.6	0.03 F	0.0026	<1	<0.03	0.0002 F	<0.05	<0.05
	RES-005I 1437.13-1440.13	N	0.0038	0.107	<0.01	<0.05	<0.0005	2.2	<5 D1	<0.05	<0.05	<0.05	0.5 FD1	0.23	0.0014	0.3 F	0.048	<0.001	<0.05	0.01 F
	RES-005I 1455.13-1458.13	N	0.0037	0.031	<0.01	<0.05	<0.0005	<1	<5 D1	<0.05	<0.05	<0.05	1.2 D1	0.17	0.0027	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1464.13-1467.13	N	0.0036	0.031	<0.01	<0.05	<0.0005	<1	0.6 F	<0.05	<0.05	<0.05	1.9	0.06	0.0014	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1473.13-1476.13	N	0.0028	0.13	<0.01	<0.05	<0.0005	1	<5 D1	<0.05	<0.05	<0.05	3.1 D1	0.11	0.0001 F	<1	0.013 F	<0.001	0.02 F	<0.05
	RES-005I 1481-1482.66	N	0.0154	<0.02	<0.01	<0.05	<0.0005	<1	<5 D1	<0.05	<0.05	<0.05	0.6 FD1	0.13	0.0008	<1	<0.03	<0.001	0.03 F	<0.05
	RES-005I 1485.5-1486.51	N	0.0151	0.006 F	<0.01	<0.05	<0.0005	<1	<5 D1	0.02 F	<0.05	<0.05	0.5 FD1	0.36	0.0008	<1	<0.03	<0.001	0.03 F	<0.05
	RES-005I 1487.1-1490.1	N	0.0007 F	0.165	<0.01	<0.05	<0.0005	0.4 F	<30 D2	<0.05	<0.05	<0.05	1 FD2	0.69 M2R1	0.0004 FB5	<1	<0.03	<0.001	0.01 F	<0.05
	RES-005I 1490.1-1493.1	N	0.0026	0.051	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	<5 D2	0.47	0.0004 FB5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1499-1502	N	0.0071	0.02	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	0.02 F	<5 D2	0.65	0.0025 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1506.56-1509.47	N	0.0038	0.04	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	1 FD2	0.6	0.0024 B5	<1	<0.03	<0.001	<0.05	<0.05
	RES-005I 1515.47-1518.47	N	0.0009 F	0.041	<0.01	<0.05	<0.0005	<1	0.6 F	<0.05	<0.05	<0.05	2.1	0.31	0.0009 B5	<1	<0.03	<0.001	<0.05	<0.05
	RES-005I 1524.47-1527.47	N	0.0039	0.093	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	0.03 F	<5 D2	0.65	0.0004 FB5	<1	<0.03	<0.001	<0.05	<0.05
	RES-005I 1532.98-1534.97	N	0.0054	0.044	<0.01	<0.05	<0.0005	0.2 F	0.8 F	<0.05	<0.05	0.02 F	2.5	0.3	0.001 B5	<1	<0.03	<0.001	0.01 F	<0.05
	RES-005I 1544-1546.55	N	0.0009 F	0.041	<0.01	<0.05	<0.0005	0.3 F	<30 D2	<0.05	<0.05	<0.05	<5 D2	0.38	0.0057 B5	<1	0.01 F	<0.001	0.02 F	<0.05
	RES-005I 1552.55-1555.58	N	0.0019	0.028	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	<5 D2	0.68	0.0009 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1559.46-1562.46	N	0.0035	0.028	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	0.01 F	1 FD2	0.75	0.001 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1568.46-1571.46	N	0.0034	0.033	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	0.01 F	<5 D2	0.75	0.0007 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1577.46-1580.46	N	0.0058	0.03	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	<5 D2	1.08	0.0018 B5	<1	<0.03	0.0003 F	0.02 F	<0.05
		FD	0.0051	0.032	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	<5 D2	1.06	0.0022 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1586.46-1589.46	N	0.0023	0.036	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	1 FD2	0.75	0.0003 FB5	<1	<0.03	<0.001	0.01 F	<0.05
	RES-005I 1595.46-1598.46	N	0.0059	0.032	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	1 FD2	0.96	0.0015 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1604.46-1607.46	N	0.0016	0.093	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	1 FD2	1.27	0.0023 B5	<1	<0.03	<0.001	<0.05	<0.05
	RES-005I 1613.46-1616.46	N	0.0063	0.056	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	<5 D2	0.54	0.0013 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1616.46-1619	N	0.0044	0.048	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	<0.05	1 FD2	0.65	0.0016 B5	<1	<0.03	<0.001	0.02 F	<0.05

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																
Hole ID	Sample ID	Type	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L
RES-005I	RES-005I 1626.54-1627.16	N	0.0037	0.098	<0.01	<0.05	<0.0005	0.8 F	<50 D2	<0.05	<0.05	0.01 F	<10 D2	2.03	0.0015 B5	<1	0.025 F	<0.001	0.06	<0.05
	RES-005I 1627.16-1630	N	0.0122	0.08	<0.01	<0.05	<0.0005	<1	<30 D2	<0.05	<0.05	0.02 F	<5 D2	0.78	0.0007 B5	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1630.5-1631.5	N	0.012	0.071	<0.01	0.04 FB1	<0.0005	0.4 F	<10 D1	<0.05	<0.05	0.01 F	<3 D1	0.26	0.0006	<1	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1632.56-1635.56	N	<0.002	0.068	<0.01	0.08 B1	<0.0005	2.1	0.6 F	<0.05	<0.05	0.02 F	0.3 F	<0.05	<0.0005	0.6 F	0.084	<0.001	<0.05	<0.05
	RES-005I 1638.37-1641	N	<0.002	0.051	<0.01	0.06	0.0001 F	2.9	<3	<0.05	0.01 F	0.08	1	<0.05	0.0002 F	0.8 F	0.069	<0.001	<0.05	<0.05
	RES-005I 1645.84-1648.08	N	0.0016 F	0.051	<0.01	0.09	0.0011	1.4	0.7 F	<0.05	<0.05	0.02 F	1.8	0.19	0.002	0.4 F	<0.03	<0.001	<0.05	<0.05
	RES-005I 1652-1654.93	N	<0.002	0.057	<0.01	0.07	0.0008	3.5	0.8 F	<0.05	0.02 F	0.1	1.5	<0.05	<0.0005 N1	0.8 F	0.128	<0.001	<0.05	<0.05
	RES-005I 1654.93-1657.3	N	<0.002	0.087	<0.01	0.07	0.002	5.9	0.9 F	<0.05	0.02 F	0.07	3.3	<0.05	0.0005	0.6 F	0.176	<0.001	<0.05	<0.05
	RES-005I 1677.8-1680.8	N	0.001 F	0.039	<0.01	0.09 B1	<0.0005	1.5	0.8 F	<0.05	<0.05	0.02 F	0.6	0.02 F	0.0006	0.4 F	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1695.23-1697.23	N	0.0027	0.053	<0.01	0.08 B1	<0.0005	1.6	0.6 F	<0.05	<0.05	0.08	0.7	0.07	0.0002 F	0.5 F	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1711.23-1713.23	N	<0.002	0.045	<0.01	0.08 B1	<0.0005	1.7	1 F	<0.05	<0.05	0.01 F	1.5	<0.05	0.0005	0.7 F	0.072	<0.001	0.02 F	<0.05
	RES-005I 1727.23-1729.23	N	0.0098	0.06	<0.01	0.09 B1	<0.0005	2.4	1 F	<0.05	<0.05	0.08	2.5	0.08	0.0002 F	0.5 F	<0.03	<0.001	0.02 F	<0.05
	RES-005I 1730.5-1731.5	N	0.0109	0.067	<0.01	0.07 B1	<0.0005	2.3	1 F	<0.05	<0.05	0.06	2.3	0.03 F	0.0007	0.4 F	0.008 F	<0.001	0.02 F	<0.05
	RES-005I 1743.23-1745.23	N	0.0062	0.069	<0.01	0.08 B1	<0.0005	1.2	1 F	<0.05	<0.05	0.09	2.4	0.04 F	0.0007	0.9 F	0.014 F	<0.001	0.39	<0.05
	RES-005I 1759.23-1761.23	N	0.0065	0.064	<0.01	0.1 B1	<0.0005	1.7	0.9 F	<0.05	<0.05	0.09	1.5	0.08	0.0014	1.9	0.029 F	<0.001	0.18	<0.05
	RES-005I 1775.23-1778.23	N	0.0007 F	0.027	<0.01	0.23 B1	<0.0005	1.5	1 F	<0.05	<0.05	<0.05	0.9	0.05	0.0003 F	0.6 F	<0.03	<0.001	<0.05	<0.05
	RES-005I 1794.36-1796.3	N	<0.002	0.065	<0.01	0.04 FB1	<0.0005	1.7	1.1 F	<0.05	<0.05	<0.05	1.1	0.27	0.0005	0.6 F	0.145	<0.001	<0.05	<0.05
	RES-005I 1811.3-1814.3	N	<0.002	0.088	<0.01	0.09 B1	0.007	3.7	0.7 F	<0.05	0.02 F	3.51	0.9	0.03 F	0.0012	1	0.068	<0.001	<0.05	<0.05
	RES-005I 1830.5-1831.5	N	<0.002	0.086	<0.01	0.05 B1	0.007	3.5	0.7 F	<0.05	0.02 F	3.88	0.9	0.03 F	<0.0005 N1	0.9 F	0.067	<0.001	<0.05	<0.05
	RES-005I 1835.3-1838.3	N	<0.002	0.086	<0.01	0.06 B1	<0.0005	2.1	0.7 F	0.01 F	<0.05	<0.05	1.3	2.26	0.0003 F	1	0.276	<0.001	0.01 F	<0.05
	RES-005I 1855.91-1858.91	N	<0.002	0.083	<0.01	0.06 B1	<0.0005	5.5	0.6 F	<0.05	<0.05	<0.05	2.8	6.79	0.0004 F	1.2	0.373	<0.001	<0.05	<0.05
	RES-005I 1872.9-1875.38	N	<0.002	0.052	<0.01	0.05 B1	0.0002 F	2.9	0.6 F	<0.05	<0.05	<0.05	1	11.1	0.0006	1.3	0.387	<0.001	<0.05	<0.05
	RES-005I 1884-1887	N	<0.002	0.043	<0.01	0.06	0.0001 F	6.1	<3	<0.05	<0.05	0.01 F	2.9	0.02 F	0.0003 F	1.7	0.118	<0.001	0.02 F	<0.05
	RES-005I 1875.38-1878.2	N	<0.002	0.066	<0.01	0.04 FB1	0.0026	3.4	0.6 F	<0.05	0.03 F	1.01	0.3 FM1	0.85	0.0005 F	1.1	0.097	<0.001	<0.05	0.02 F
	RES-005I 1895-1897.06	N	<0.002	0.07	<0.01	0.07 B1	<0.0005	12.2	0.5 F	<0.05	<0.05	<0.05	1.2	0.6	0.001	1.3	0.167	<0.001	0.04 F	<0.05
	RES-005I 1901.49-1902.36	N	<0.002	0.072	<0.01	0.1 B1	<0.0005	6	<3	<0.05	<0.05	<0.05	1.8	11.4	0.0005 F	1.4	0.422	<0.001	<0.05	<0.05
	RES-005I 1917.29-1919.1	N	<0.002	0.031	<0.01	0.22 B1	<0.0005	3.1	<3	<0.05	<0.05	0.02 F	1.4	0.15	0.0003 F	1.7	<0.03	<0.001	0.04 F	<0.05
	RES-005I 1923.1-1925.3	N	<0.002	0.027	<0.01	0.09 B1	<0.0005	7.6	<3	<0.05	<0.05	0.02 F	1.3	0.07	0.0012	3	0.138	<0.001	0.03 F	<0.05
	RES-005I 1955.06-1958.06	N	<0.002	0.022	<0.01	0.13 B1	<0.0005	1.4	<3	<0.05	<0.05	0.03 F	1.5	0.45	0.0012	0.6 F	0.01 F	<0.001	0.07	<0.05
	RES-005I 1960.5-1961.5	N	<0.002	0.02 F	<0.01	0.14 B1	<0.0005	1.4	<3	<0.05	<0.05	0.02 F	1.4	0.3	0.0014	0.6 F	0.006 F	<0.001	0.07	<0.05
	RES-005I 1979.06-1982.06	N	<0.002	0.023	<0.01	0.14 B1	<0.0005	5	<3	<0.05	<0.05	0.04 F	1.2	0.36	0.0006	1	0.012 F	<0.001	0.12	<0.05
	RES-005I 2008.11-2011.11	N	<0.002	0.025	<0.01	0.12 B1	<0.0005	8.8	<3	<0.05	<0.05	0.02 F	1.4	0.35	0.0005 F	1.7	0.007 F	<0.001	0.06	<0.05
	RES-005I 2032.11-2035.11	N	<0.002	0.023	<0.01	0.1 B1	<0.0005	21.9	<3	<0.05	<0.05	0.02 F	0.6	0.16	0.0004 F	4.8	0.185	<0.001	0.06	<0.05
	RES-005I 2049.84-2052.84	N	<0.002	0.045	<0.01	0.04 FB1	<0.0005	2.9	<3	<0.05	<0.05	0.01 F	0.6	5.48	0.0005	2.2	0.369	<0.001	<0.05	<0.05
	RES-005I 2061.84-2064.84	N	<0.002	0.056	<0.01	0.09 B1	<0.0005	3.2	<3	<0.05	<0.05	<0.05	1.6	4.18	0.0001 F	2.2	0.354	<0.001	<0.05	<0.05

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UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
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R1	Relative percent difference (RPD) exceeded the method control limit.
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V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS									
Hole ID	Sample ID	Type	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	RES-005I 1011.88-1012.45	N	6.3	0.0025	17.1	<0.03	24.6	8.7	<0.0005	0.0001 F	0.032	<0.05
	RES-005I 1322.73-1323.23	N	9.4	0.0006	13.3	<0.03	9.2	9.9	<0.0005	<0.0005	0.008 F	<0.05
	RES-005I 1353-1353.49	N	9.1	0.0016	13.7	<0.03	8.3	5.8	<0.0005	<0.0005	0.008 F	<0.05
	RES-005I 1360.5-1361.51	N	12.1	0.0022	12.9	<0.03	8.1	9.5	<0.0005	<0.0005	0.008 F	<0.05
	RES-005I 1370.93-1374	N	17.4	0.0027	7.8	<0.03	1.7 F	13 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1380-1383	N	13.3	0.0012	7.1	<0.03	2.2	15 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1389-1391.57	N	4.8	0.0007	8.3	<0.03	2.1	10.2	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1396.3-1399.3	N	3.5	0.0057	5.7	<0.03	2.9	6.5	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1405-1406.67	N	8.8	0.0008	7.6	<0.03	2.2	11.4	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1410.18-1413.18	N	6.1	0.0046	5.2	<0.03	3.2	11.7	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1419.18-1422.18	N	3.2	0.0112	5.7	<0.03	4.6	11 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1425.5-1426.51	N	3.4	0.0125	6.6	<0.03	4.5	11 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1428.18-1431.18	N	1.8 F	0.0043	5.3	<0.03	4.6	10 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1446.13-1449.13	N	10.8	0.0101	6.1	<0.03	2.9	14.5	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1437.13-1440.13	N	10.4	0.01	6.4	<0.03	3.2	18 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1455.13-1458.13	N	15.6	0.0103	6.3	<0.03	1.3 F	14 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1464.13-1467.13	N	13.7	0.0179	6.2	<0.03	1.5 F	9.3	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1473.13-1476.13	N	13.6	0.0033	6.3	<0.03	1.8 F	11 D1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1481-1482.66	N	5.7	0.0106	4.8	<0.03	1.8 F	3 FD1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1485.5-1486.51	N	5.6	0.0107	4.8	<0.03	1.9 F	3 FD1	<0.0005	<0.0005	<0.03	<0.05
	RES-005I 1487.1-1490.1	N	20.1	0.0083	8.8	<0.03	1.8 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1490.1-1493.1	N	18.7	0.0132	7.8	<0.03	1.6 F	<30 D2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1499-1502	N	13.6	0.0151	9.3	<0.03	1.6 F	<30 D2	0.0002 F	<0.0005	<0.03	0.04 FB5
	RES-005I 1506.56-1509.47	N	15.2	0.0198	8.7	<0.03	1.3 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1515.47-1518.47	N	19.3	0.0148	7.2	<0.03	1.5 F	12.8	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1524.47-1527.47	N	18.4	0.0122	9.4	<0.03	1.4 F	<30 D2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1532.98-1534.97	N	18.1	0.0027	9.3	<0.03	2	11.2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1544-1546.55	N	11.6	0.0042	7.9	<0.03	1.7 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1552.55-1555.58	N	13.1	0.0142	7.7	<0.03	2.1	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1559.46-1562.46	N	13.2	0.0367	7.8	<0.03	1.6 F	<30 D2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1568.46-1571.46	N	13.1	0.0433	7	<0.03	1.6 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1577.46-1580.46	N	8.1	0.0176	7.3	<0.03	2	<30 D2	<0.0005	<0.0005	<0.03	0.03 FB5
		FD	7.5	0.0153	7	<0.03	1.7 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1586.46-1589.46	N	19	0.029	8.9	<0.03	1.6 F	<30 D2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1595.46-1598.46	N	16.9	0.0299	8.8	<0.03	1.8 F	<30 D2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1604.46-1607.46	N	17.4	0.015	12.7	<0.03	1.5 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1613.46-1616.46	N	9.4	0.0099	7.2	<0.03	1.5 F	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1616.46-1619	N	15.2	0.0095	9.2	<0.03	1 F	<30 D2	<0.0005	<0.0005	0.006 F	0.04 FB5

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS									
Hole ID	Sample ID	Type	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	RES-005I 1626.54-1627.16	N	8.7	0.0185	7	<0.03	2.5	<100 D2M2	<0.0005	<0.0005	<0.03	0.03 FB5
	RES-005I 1627.16-1630	N	10.7	0.031	7	<0.03	2.2	<30 D2	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-005I 1630.5-1631.5	N	9	0.0331	5.4	<0.03	3.2 B1	8 FD1	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1632.56-1635.56	N	21.4	0.0013	6.2	<0.03	3.8 B1	30.5	<0.0005	<0.0005	<0.03	0.05 B1
	RES-005I 1638.37-1641	N	22.9	0.0016	7.8	<0.03	3.6	34.2	0.0004 F	<0.0005	<0.03	0.06
	RES-005I 1645.84-1648.08	N	14.6	0.0278	6.1	<0.03	4.6	16	0.0001 F	<0.0005	<0.03	0.07
	RES-005I 1652-1654.93	N	21.4	0.0055	6.5	<0.03	3	31	<0.0005	<0.0005	<0.03	0.07
	RES-005I 1654.93-1657.3	N	16.4	0.0046	6.3	<0.03	3.2	27.8	0.0001 F	<0.0005	<0.03	0.07
	RES-005I 1677.8-1680.8	N	12.8	0.0009	7.1	<0.03	3.9 B1R1	16.8	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1695.23-1697.23	N	17.2	0.0004 F	7.1	<0.03	4.7 B1	23.5	<0.0005	<0.0005	<0.03	0.05 B1
	RES-005I 1711.23-1713.23	N	26.6	0.0003 F	7.3	<0.03	3 B1	33.2	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1727.23-1729.23	N	14.1	0.0004 F	8.7	<0.03	4.7 B1	17.7	<0.0005	<0.0005	<0.03	0.05 B1
	RES-005I 1730.5-1731.5	N	13.9	0.0004 F	6.9	<0.03	3.1 B1	17.9	<0.0005	<0.0005	<0.03	0.05 B1
	RES-005I 1743.23-1745.23	N	52.7	0.0018	10.1	<0.03	3.3 B1	60	<0.0005	<0.0005	<0.03	0.07 B1
	RES-005I 1759.23-1761.23	N	70.9	0.0019	14	<0.03	4.2 B1	91.2	0.0003 F	<0.0005	<0.03	0.07 B1
	RES-005I 1775.23-1778.23	N	18.9	0.0002 F	8.2	<0.03	8.1 B1	33.2	<0.0005	<0.0005	<0.03	0.05 B1
	RES-005I 1794.36-1796.3	N	20.7	0.0002 F	5.6	<0.03	2.6 B1	28.7	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1811.3-1814.3	N	19.7	0.0006	5.5	<0.03	3.8 B1	40.8	0.0008	<0.0005	<0.03	0.1 B1
	RES-005I 1830.5-1831.5	N	19.8	0.0006	5.6	<0.03	3.4 B1	41.5	0.0009	<0.0005	<0.03	0.08 B1
	RES-005I 1835.3-1838.3	N	25.2	0.0007	8.8	<0.03	3.6 B1	42.2	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1855.91-1858.91	N	20.1	0.0012	5.4	<0.03	3.8 B1	48.4	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1872.9-1875.38	N	21.3	0.0011	4.3	<0.03	3.1 B1	71	<0.0005	<0.0005	<0.03	0.07 B1
	RES-005I 1884-1887	N	23	0.0014	7 R4	<0.03	2.8 B1	48.9	<0.0005	<0.0005	<0.03	0.07 B1
	RES-005I 1875.38-1878.2	N	13.2	0.0009	5.3	<0.03	1.4 FB1	41.7	<0.0005	0.0005 F	<0.03	2.87 B7
	RES-005I 1895-1897.06	N	15.3	0.0022	8.3	<0.03	3.1 B1	56.3	<0.0005	<0.0005	<0.03	0.05 B1
	RES-005I 1901.49-1902.36	N	17.8	0.0009	4.8	<0.03	4.4 B1	65.2	<0.0005	<0.0005	<0.03	0.06 B1
	RES-005I 1917.29-1919.1	N	22.8	0.0017	9.3	<0.03	10.2 B1	40.9	0.0001 F	<0.0005	<0.03	0.07 B1
	RES-005I 1923.1-1925.3	N	24.7	0.002	6.9	<0.03	4.4 B1	57.6	<0.0005	<0.0005	<0.03	0.07 B1
	RES-005I 1955.06-1958.06	N	14.7	0.0013	10.1	<0.03	6.6 B1	20.8	<0.0005	<0.0005	<0.03	0.12 B1
	RES-005I 1960.5-1961.5	N	13.7	0.0013	10.4	<0.03	7.7 B1	20.6	<0.0005	<0.0005	<0.03	0.07 B1
	RES-005I 1979.06-1982.06	N	15.4	0.0011	7.5	<0.03	9.1 B1	10	<0.0005	0.0001 F	<0.03	0.09 B1
	RES-005I 2008.11-2011.11	N	19.3	0.002	8.9	<0.03	6.9 B1	23.5	<0.0005	<0.0005	0.006 F	0.05 B1
	RES-005I 2032.11-2035.11	N	27.5	0.0026	6	<0.03	6.6 B1	83.9	<0.0005	0.0001 F	<0.03	0.07 B1
	RES-005I 2049.84-2052.84	N	29	0.0024	5.1	<0.03	2.4 B1	64.1	<0.0005	<0.0005	<0.03	0.15 B1
	RES-005I 2061.84-2064.84	N	26.1	0.0004 F	5.9	<0.03	4 B1	60.9	<0.0005	<0.0005	<0.03	0.06 B1

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS											
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L	Antimony MG/L
RES-005J	RES-005J 1660.4-1668.47	N	4 F	<20	<20	4 F	4 F	7.4	23	6 F	88	80	0.18 F	0.0016 F

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.
B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																	
Hole ID	Sample ID	Type	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L
RES-005J	RES-005J 1660.4-1668.47	N	0.0057	0.042	<0.01	0.17 B1	<0.0005	1.6	0.7 F	<0.05	<0.05	0.08	1	0.03 F	0.0015	0.5 F	<0.03	<0.001	0.16	<0.05	14.8

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS								
Hole ID	Sample ID	Type	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005J	RES-005J 1660.4-1668.47	N	0.0006	7.6	<0.03	6 B1	21.2	<0.0005	<0.0005	<0.03	0.07 B1

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Hardness (as CaCO3) MG/L	Solids, Percent %	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L
RES-006D	RES-006D 1247.48-1250.48	N	<10	10 F	<20	37	27	9	20	99.2	97	60	4.06
	RES-006D 1405.47-1408.44	N	<10	6 F	<20	26	20	9	23	99.6	119	90	1.92
	RES-006D 1450.44-1453.44	N	<10	<20	<20	40	38	8.3	138	99.6	373	250	0.05 F
	RES-006D 1495.44-1498.44	N	<10	<20	<20	7 F	5 F	8.2	56	99.6	214	130	0.03 F
	RES-006D 1532.81-1535.81	N	6 FB4	<20	<20	<20	<20	7.5	42	99.6	219	140	0.04 F
	RES-006D 1577.43-1580.43	N	<10	5 F	<20	31	26	8.2	35	99.2	150	100	0.89
	RES-006D 1600.5-1601.5	N	<10	4 F	<20	30	26	8.6	35	99.3	148	90	0.87
	RES-006D 1622.43-1625.43	N	8 F	<20	<20	3 F	3 F	8.4	29	99.6	165	100	0.06 F
	RES-006D 1667.43-1670.43	N	18 B4	<20	<20	<20	<20	5.9	41	99.7	230	150	2.62
	RES-006D 1898.21-1901.09	N	26 B4	<20	<20	<20	<20	4.6	71	99.7	168	120	0.07 F
	RES-006D 1705.4-1708.4	N	58 B4	<20	<20	<20	<20	4.7	48	99.9	286	190	8.33
	RES-006D 1750.4-1753.4	N	62 B4	<20	<20	<20	<20	5.1	84	99.8	242	190	7.26 N1
	RES-006D 1798.4-1801.4	N	64 B4	<20	<20	<20	<20	3.9	18	99.8	284	210	12.9
	RES-006D 1843.4-1846.4	N	76 B4	<20	<20	<20	<20	6.1	32	99.7	216	150	6.62
	RES-006D 1927.23-1930.23	N	20 B4	<20	<20	2 F	2 F	5.5	31	99.8	130	100	2.64
	RES-006D 1952.56-1954.83	N	8 FB4	<20	<20	<20	<20	5.5	31	99.9	64	50	0.03 F
		FD	24 B4	<20	<20	3 F	3 F	5.9	10	99.9	131	80	2.83
	RES-006D 1954.83-197	N	<10	<20	<20	<20	<20	6.9	9	99.8	71	40	0.07 F
	RES-006D 1980.6-1983.6	N	177 B7	<20	<20	<20	<20	5.6	40	99.8	517	420	0.09 F
	RES-006D 1995.6-1998.6	N	203 B7	<20	<20	<20	<20	5.6	93	99.7	547	460	1.07
	RES-006D 2022.66-2025.66	N	85 B4	<20	<20	<20	<20	5.7	53	99.9	351	250	0.09 F
	RES-006D 2040.66-2043.66	N	36 B4	<20	<20	<20	<20	6	48	99.7	247	170	0.09 F
	RES-006D 2058.16-2061.16	N	<10	3 F	<20	37	34	7.2	59	99.7	223	140	0.17 F
	RES-006D 2073.13-2076.13	N	<10	<20	<20	39	39	7.1	98	99.9	306	190	0.04 F
		FD	<10	<20	<20	37	37	7.1	94	99.8	294	170	0.03 F
	RES-006D 2091.13-2094.13	N	27 B4	2 F	<20	31	29	7.7	40	99.6	193	120	0.2
	RES-006D 2115.47-2118.47	N	8 FB4	<20	<20	3 F	3 F	6.7	15	99.9	96	60	0.45
	RES-006D 2125.45-2128.42	N	2 FB4	<20	<20	3 F	3 F	6.9	12	99.8	114	60	<0.2
	RES-006D 2137.08-2138.5	N	117 B4	<20	<20	<20	<20	6.6	80	99.7	420	320	0.58

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																
Hole ID	Sample ID	Type	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L
RES-006D	RES-006D 1247.48-1250.48	N	<0.002	<0.002	0.033	<0.01	0.13 B1	<0.0005	4.6	0.6 F	<0.05	<0.05	0.02 F	0.2 F	3.21	<0.0005	2	0.14	<0.001	<0.05
	RES-006D 1405.47-1408.44	N	<0.002	<0.002	0.035	<0.01	0.11 B1	<0.0005	7.2	0.6 F	<0.05	<0.05	<0.05	0.2 F	0.74	0.0015	1.2	0.02 F	<0.001	<0.05
	RES-006D 1450.44-1453.44	N	<0.002	<0.002	0.048	<0.01	0.11 B1	<0.0005	44.7	0.6 F	<0.05	<0.05	<0.05	1.3	<0.05	<0.0005	6.5	1.08	<0.001	<0.05
	RES-006D 1495.44-1498.44	N	<0.002	<0.002	0.037	<0.01	0.1 B1	<0.0005	8.9	0.7 F	<0.05	0.01 F	<0.05	0.8	<0.05	0.0002 F	8.1	0.05	<0.001	<0.05
	RES-006D 1532.81-1535.81	N	<0.002	<0.002	0.025	<0.01	0.1 B1	<0.0005	9.3	<3	<0.05	0.01 F	<0.05	3.9	0.39	<0.0005	4.6	0.174	<0.001	<0.05
	RES-006D 1577.43-1580.43	N	<0.002	<0.002	0.042	<0.01	0.11 B1	<0.0005	11.2	<3	<0.05	<0.05	0.01 F	0.7	0.3	<0.0005	1.8	0.009 F	<0.001	<0.05
	RES-006D 1600.5-1601.5	N	<0.002	<0.002	0.034	<0.01	0.1 B1	<0.0005	11.1	<3	<0.05	0.01 F	0.01 F	0.6	0.28	0.0007	1.8	0.01 F	<0.001	<0.05
	RES-006D 1622.43-1625.43	N	<0.002	<0.002	0.02	<0.01	0.09 B1	<0.0005	5.4	<3	<0.05	0.01 F	<0.05	0.9	<0.05	0.0002 F	3.7	0.336	<0.001	<0.05
	RES-006D 1667.43-1670.43	N	<0.002	<0.002	0.052	0.003 F	0.13 B1	<0.0005	10.9	<3	0.01 F	0.03 F	0.15	4.6	0.77	0.0001 F	3.4	0.1	<0.001	<0.05
	RES-006D 1898.21-1901.09	N	<0.002	<0.001	0.042	<0.01	<0.05	<0.0005	11.7	<3	<0.05	<0.05	<0.05	9.1 D2	11.8	<0.0005	0.7 F	0.507	<0.001	0.02 F
	RES-006D 1705.4-1708.4	N	<0.002	<0.002	0.034	0.005 F	0.16 B1	<0.0005	17.6	0.6 F	<0.05	0.04 F	1.7	14.9 D2	4.93	0.0001 F	6.5	0.198	<0.001	<0.05
	RES-006D 1750.4-1753.4	N	<0.002	<0.001	0.008 F	<0.01	<0.05	<0.0005	14.4	0.6 F	0.01 F	0.06	<0.05	10.1 D2	9.28 M3	<0.0005	3	0.157	<0.001	<0.05
	RES-006D 1798.4-1801.4	N	<0.002	<0.001	0.009 F	<0.01	<0.05	<0.0005	26.8	<3	0.01 F	0.04 F	0.02 F	22 D2	2.51	0.0001 F	4.2	0.146	<0.001	0.02 F
	RES-006D 1843.4-1846.4	N	<0.002	<0.001	0.029	<0.01	<0.05	0.0002 F	5.4	<3	0.05	0.11	1.87	1.8	11.3	0.0001 F	1.1	0.17	<0.001	0.02 F
	RES-006D 1927.23-1930.23	N	0.0005 F	<0.001	0.034	<0.01	<0.05	0.0063	11.3	0.8 F	0.01 F	0.04 F	4.07	6.4 D2	<0.05	0.0007	0.6 F	0.075	<0.001	0.02 F
	RES-006D 1952.56-1954.83	N	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	3.4	1.5 F	<0.05	<0.05	<0.05	3.2	1.52	0.0001 F	0.4 F	0.318	<0.001	<0.05
		FD	0.0005 F	<0.001	0.035	<0.01	<0.05	0.0067	11.6	0.9 F	0.01 F	0.04 F	4.48	6.4 D2	<0.05	0.0005	0.5 F	0.07	<0.001	<0.05
	RES-006D 1954.83-197	N	<0.002	0.0005 F	0.02 F	<0.01	0.12 B1	0.0001 F	2.9	0.8 F	<0.05	<0.05	0.02 F	2.5	<0.05	0.0005	0.5 F	0.018 F	<0.001	0.02 F
	RES-006D 1980.6-1983.6	N	<0.002	<0.001	0.004 F	<0.01	<0.05	<0.0005	14	<3	<0.05	<0.05	<0.05	9.1 D2	106	0.0004 F	1.3	2.07	<0.001	0.02 F
	RES-006D 1995.6-1998.6	N	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	34.7	<3	<0.05	<0.05	<0.05	20.4 D2	95.7	0.0007	1.5	1.73	<0.001	0.04 F
	RES-006D 2022.66-2025.66	N	<0.002	<0.001	0.007 F	<0.01	<0.05	<0.0005	18.5	<3	<0.05	<0.05	0.01 F	13.4 D2	47.3	0.0003 F	1.7	1.13	<0.001	0.02 F
	RES-006D 2040.66-2043.66	N	<0.002	<0.001	0.006 F	<0.01	<0.05	<0.0005	12.4	<3	<0.05	<0.05	<0.05	6.8 D2M1	15.6	0.0001 F	4.2	0.627	<0.001	0.02 F
	RES-006D 2058.16-2061.16	N	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	8.9	<3	<0.05	<0.05	<0.05	2.2	<0.05	0.0001 F	9	0.007 F	<0.001	0.03 F
	RES-006D 2073.13-2076.13	N	<0.002	<0.001	0.019 F	<0.01	<0.05	<0.0005	16.9	<3	<0.05	<0.05	0.02 F	4.1	<0.05	0.0004 F	13.6	0.147	<0.001	0.02 F
		FD	<0.002	<0.001	0.019 F	<0.01	<0.05	<0.0005	16.5	<3	<0.05	<0.05	0.03 F	4.1	0.02 F	0.0005	12.9	0.136	<0.001	0.02 F
	RES-006D 2091.13-2094.13	N	<0.002	<0.001	0.021	<0.01	<0.05	<0.0005	6.9	<3	<0.05	0.01 F	<0.05	2.1	<0.05	<0.0005	5.5	0.008 F	<0.001	0.07
	RES-006D 2115.47-2118.47	N	<0.002	<0.001	0.015 F	<0.01	<0.05	0.0004 F	5	1.3 F	<0.05	<0.05	0.03 F	4.2	0.04 F	0.0001 F	0.7 F	0.093	<0.001	0.02 F
	RES-006D 2125.45-2128.42	N	<0.002	<0.001	0.107	<0.01	<0.05	<0.0005	3.7	1.2 F	<0.05	<0.05	<0.05	5.8 D2	<0.05	0.0007	0.7 F	0.08	<0.001	0.02 F
	RES-006D 2137.08-2138.5	N	<0.002	<0.001	0.039	<0.01	<0.05	<0.0005	31.3	<3	0.01 F	<0.05	<0.05	21 D2	58.5	0.0005	0.4 F	0.895	<0.001	0.03 F

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	RES-006D 1247.48-1250.48	N	<0.05	5.5	0.0006	20.7 B1	<0.03	17.1 B1	7.1	<0.0005	<0.0005	<0.03	0.12
	RES-006D 1405.47-1408.44	N	<0.05	16.1	0.0007	13.2 B1	<0.03	8.1 B1	23.5	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 1450.44-1453.44	N	<0.05	21.9	0.0006	6.1 B1	<0.03	7.5 B1	127 D2	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 1495.44-1498.44	N	<0.05	18.6	0.0001 F	5.4 B1	<0.03	4.8 B1	75.3	<0.0005	<0.0005	<0.03	0.01 F
	RES-006D 1532.81-1535.81	N	<0.05	28.7	0.0002 F	7.3 B1	<0.03	7.1 B1	74.9	<0.0005	<0.0005	<0.03	0.04 F
	RES-006D 1577.43-1580.43	N	<0.05	18.1	0.0003 F	9.5 B1	<0.03	4.8 B1	31.2	<0.0005	<0.0005	<0.03	0.02 F
	RES-006D 1600.5-1601.5	N	<0.05	18	0.0003 F	9.3 B1	<0.03	4.3 B1	29.8	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 1622.43-1625.43	N	<0.05	25.2	0.0004 F	7 B1	<0.03	3.3 B1	52.6	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 1667.43-1670.43	N	<0.05	29.3	0.0008	6.6 B1	<0.03	3.9 B1	98.5	0.0002 F	0.0005	<0.03	1.1
	RES-006D 1898.21-1901.09	N	<0.05	16.8	0.0003 F	5.8	<0.03	0.7 F	52.9	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 1705.4-1708.4	N	0.02 F	14.3	0.0017	6.6 B1	<0.03	4.8 B1	175 D2	0.0001 F	0.0018	<0.03	0.83
	RES-006D 1750.4-1753.4	N	0.04 F	15.5	0.0008	6.3	<0.03	0.8 F	142 D2	<0.0005	0.0006	<0.03	1.17
	RES-006D 1798.4-1801.4	N	0.02 F	16.2	0.0027	6.2	<0.03	1 F	131 D2	<0.0005	0.0006	<0.03	0.82
	RES-006D 1843.4-1846.4	N	0.03 F	8.5	0.0012	4.1	<0.03	0.8 F	133 D2	0.0003 F	0.0012	<0.03	1.05
	RES-006D 1927.23-1930.23	N	<0.05	6.9	0.0006	5	<0.03	0.9 F	50.1	<0.0005	0.0002 F	<0.03	0.05
	RES-006D 1952.56-1954.83	N	<0.05	7.1	<0.0005	6	<0.03	1 F	11.7	<0.0005	<0.0005	<0.03	0.03 F
		FD	0.01 F	7	0.0006	6.6	<0.03	0.8 F	50.6	<0.0005	0.0002 F	<0.03	0.04 F
	RES-006D 1954.83-197	N	<0.05	9.5	0.0008	6.2	<0.03	4.6 B1	18.5	<0.0005	<0.0005	<0.03	0.08 B1
	RES-006D 1980.6-1983.6	N	<0.05	18.7	0.0018	3.7	<0.03	0.8 F	275 D2	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 1995.6-1998.6	N	<0.05	8.6	0.0024	6.9	<0.03	0.5 F	272 D2	<0.0005	<0.0005	<0.03	0.05
	RES-006D 2022.66-2025.66	N	<0.05	18.4	0.0015	4.9	<0.03	0.9 F	161 D2	<0.0005	<0.0005	<0.03	0.02 F
	RES-006D 2040.66-2043.66	N	<0.05	23.7	0.002	6.1	<0.03	1.4 F	91.7	<0.0005	<0.0005	<0.03	0.02 F
	RES-006D 2058.16-2061.16	N	<0.05	26.9	0.0028	4.2	<0.03	1.2 F	48.8	<0.0005	<0.0005	<0.03	0.02 F
	RES-006D 2073.13-2076.13	N	<0.05	22.4	0.0055	3.8	<0.03	1.1 F	87.5	<0.0005	<0.0005	<0.03	0.03 F
		FD	<0.05	21.1	0.0055	3.7	<0.03	1 F	82.5	<0.0005	<0.0005	<0.03	0.04 F
	RES-006D 2091.13-2094.13	N	<0.05	28.5	0.0044	5.7	<0.03	1.9 F	36.8	<0.0005	<0.0005	<0.03	0.01 F
	RES-006D 2115.47-2118.47	N	<0.05	12.1	0.0012	4.9	<0.03	1.3 F	20.2	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 2125.45-2128.42	N	<0.05	20.3	<0.0005	6.7	<0.03	0.6 F	21.2	<0.0005	<0.0005	<0.03	0.03 F
	RES-006D 2137.08-2138.5	N	<0.05	2	0.0003 F	6.8	<0.03	0.3 F	193 D2	<0.0005	<0.0005	<0.03	0.04 F

DEG C	degrees Celcius.
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UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L
RES-009	RES-009 1012.16-1014.16	N	<10	10 F	<20	41	32	8.8	23.6	<0	110	80	0.96
	RES-009 1027.38-1030.3	N	<10	9 F	<20	41	31	9.7	23.6	2	139	80	0.49
	RES-009 1045.3-1048.3	N	<10	<20	<20	10 F	8 F	9.6	24	<7	127	80	0.44
	RES-009 105.16-105.73	N	<10	13	<20	18	5 F	9.7	24	8	44	60	0.36
	RES-009 1063.3-1066.3	N	<10	<20	<20	10 F	9 F	9.8	24	3 F	120	100	0.52
	RES-009 1081.3-1084.3	N	<10	6 F	<20	12 F	6 F	10.2	24	2 F	94	110	0.87
	RES-009 1098.34-1100.96	N	<10	5 F	<20	17 F	11 F	10.1	24	3 F	102	90	0.68
	RES-009 199.18-199.78	N	<10	30	<20	33	3 F	9.7	24	1 F	80	110	0.62
	RES-009 199.78-200.3	N	<10	15 F	<20	16 F	<20	9.9	24	3 F	38	100	0.49
	RES-009 281.14-281.64	N	<10	23	<20	33	10 F	9.3	24	<7	68	110	0.38
	RES-009 348.3-348.83	N	<10	25	<20	29	4 F	9.8	24	5 F	60	170	0.74
	RES-009 447.23-447.8	N	<10	89	<20	101	12 F	9.7	24	10	220	170	0.45
	RES-009 485.12-485.71	N	<10	64	<20	82	18 F	9.2	24	26	194	130	0.33
	RES-009 557.06-557.56	N	<10	19 F	<20	23	4 F	9.3	24	16	95	90	0.73
	RES-009 647.52-648.1	N	<10	52	<20	78	26	9.3	24	11	171	140	0.41
	RES-009 7.43-7.96	N	<10	4	<20	23	19 F	9.3	24	28	35	60	0.42
	RES-009 718-718.58	N	<10	13 F	<20	15 F	<20	8.7	24	14	50	90	0.61
	RES-009 810.42-810.98	N	<10	35	<20	57	22	9.5	23.6	2	178	130	0.23
	RES-009 906.08-906.58	N	<10	21	<20	44	22	8.5	24	12	171	110	0.22
	RES-009 987.9-988.45	N	<10	12 F	<20	31	19 F	9	24	1 F	165	110	0.24
	RES-009 994.67-997.67	N	<10	8 F	<20	37	29	8.8	24	11	160	110	0.75

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MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.

B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																	
Hole ID	Sample ID	Type	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L
RES-009	RES-009 1012.16-1014.16	N	<0.002	0.0091	<0.02	<0.01	<0.05	<0.0005	3.3	0.8 F	<0.05	<0.05	0.01 F	1.4	0.22	0.002	0.7 F	0.021 F	<0.001	0.03 F	<0.05
	RES-009 1027.38-1030.3	N	<0.002	0.0071	0.008 F	<0.01	<0.05	<0.0005	8.4	0.8 F	<0.05	<0.05	<0.05	2.2	0.03 F	<0.0005 R1	1.6	0.017 F	<0.001	0.02 F	<0.05
	RES-009 1045.3-1048.3	N	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	2	0.6 F	<0.05	<0.05	0.01 F	1.4	0.06	<0.0005	2.2	0.016 F	<0.001	<0.05	<0.05
	RES-009 105.16-105.73	N	<0.002	0.0018	0.005 F	<0.01	0.01 F	<0.0005	0.4 F	<3	<0.05	<0.05	<0.05	0.2 F	0.09	0.0006	0.2 F	0.017 F	<0.001	<0.05	<0.05
	RES-009 1063.3-1066.3	N	<0.002	0.0011	<0.02	<0.01	<0.05	<0.0005	2.2	0.8 F	<0.05	<0.05	0.02 F	1.8	0.1	0.0002 F	1.7	0.011 F	<0.001	<0.05	<0.05
	RES-009 1081.3-1084.3	N	<0.002	0.0054	0.005 F	<0.01	<0.05	0.0002 F	0.2 F	0.8 F	<0.05	<0.05	0.02 F	1.5	0.25	0.0002 F	0.2 F	0.006 F	<0.001	<0.05	<0.05
	RES-009 1098.34-1100.96	N	<0.002	0.0022	<0.02	<0.01	<0.05	<0.0005	1.8	1.6 F	<0.05	<0.05	<0.05	2.5	0.14	<0.0005	1.6	0.008 F	<0.001	<0.05	<0.05
	RES-009 199.18-199.78	N	<0.002	0.002	0.009 F	<0.01	0.01 F	<0.0005	0.4 F	<3	<0.05	<0.05	<0.05	0.3 F	0.19	0.0002 F	0.3 F	0.033	<0.001	<0.05	<0.05
	RES-009 199.78-200.3	N	<0.002	0.0024	0.006 F	<0.01	<0.05	<0.0005	<1	1 F	<0.05	<0.05	<0.05	0.2 F	0.11	0.0003 F	<1	0.015 F	<0.001	<0.05	<0.05
	RES-009 281.14-281.64	N	<0.002	0.002	0.005 F	<0.01	<0.05	<0.0005	2.7	<3	<0.05	<0.05	<0.05	<0.5	0.07	0.0004 F	0.3 F	0.01 F	<0.001	<0.05	<0.05
	RES-009 348.3-348.83	N	<0.002	0.0024	0.007 F	<0.01	<0.05	<0.0005	0.7 F	<3	<0.05	<0.05	<0.05	<0.5	0.12	0.0007	0.2 F	0.02 F	<0.001	<0.05	<0.05
	RES-009 447.23-447.8	N	<0.002	0.0082	<0.02	<0.01	0.04 F	<0.0005	0.6 F	0.7 F	<0.05	<0.05	<0.05	0.5	0.31	0.0007	0.2 F	0.006 F	<0.001	<0.05	<0.05
	RES-009 485.12-485.71	N	<0.002	0.0073	<0.02	<0.01	0.11	<0.0005	1	1 F	<0.05	<0.05	<0.05	1.2	0.18	0.0003 F	<1	0.008 F	<0.001	<0.05	<0.05
	RES-009 557.06-557.56	N	0.0007 F	0.018	0.01 F	<0.01	0.26	<0.0005	0.3 F	<3	<0.05	<0.05	0.02 F	1.9	0.26	0.0014	<1	0.005 F	<0.001	0.15	<0.05
	RES-009 647.52-648.1	N	0.0005 F	0.0096	<0.02	<0.01	0.15	<0.0005	1	1.3 F	<0.05	<0.05	<0.05	0.8	0.27	0.0004 F	<1	<0.03	<0.001	<0.05	<0.05
	RES-009 7.43-7.96	N	<0.002	0.0011	0.004 F	<0.01	<0.05	<0.0005	<1	<3	<0.05	<0.05	<0.05	0.2 F	0.07	0.001	<1	0.016 F	<0.001	<0.05	<0.05
	RES-009 718-718.58	N	<0.002	0.0187	<0.02	<0.01	0.02 F	<0.0005	<1	<30 D1	<0.05	<0.05	0.02 F	<5 D1	0.86	0.0105	<1	<0.03	<0.001	0.04 F	<0.05
	RES-009 810.42-810.98	N	<0.002	0.0047	<0.02	<0.01	0.09	<0.0005	1.6	1.3 F	<0.05	<0.05	<0.05	0.7	0.14	0.0002 F	0.2 F	<0.03	<0.001	<0.05	<0.05
	RES-009 906.08-906.58	N	<0.002	0.0031	0.006 F	<0.01	0.05	<0.0005	3.4	1.2 F	<0.05	<0.05	<0.05	0.9	0.1	0.0001 F	0.4 F	<0.03	<0.001	0.01 F	<0.05
	RES-009 987.9-988.45	N	<0.002	0.0126	<0.02	<0.01	0.02 F	<0.0005	9.6	1.1 F	<0.05	<0.05	<0.05	1	0.25	0.0002 F	0.5 F	<0.03	<0.001	0.04 F	<0.05
	RES-009 994.67-997.67	N	<0.002	0.0057	0.022	<0.01	<0.05	<0.0005	5	0.8 F	<0.05	<0.05	<0.05	1.8	0.19	0.001	0.9 F	0.014 F	<0.001	0.04 F	<0.05

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.

B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS									
Hole ID	Sample ID	Type	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009	RES-009 1012.16-1014.16	N	21.9	0.0002 F	8.2	<0.03	3.9	2.4 F	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-009 1027.38-1030.3	N	9.2	<0.0005	6.6	<0.03	10.3	14.6	<0.0005	0.0001 F	0.006 F	0.04 FB5
	RES-009 1045.3-1048.3	N	8.7	<0.0005	5.9	<0.03	12.1	31	<0.0005	<0.0005	<0.03	0.05 B5
	RES-009 105.16-105.73	N	2.3	<0.0005	22.6	<0.03	6.5	<3	<0.0005	<0.0005	<0.03	0.04 F
	RES-009 1063.3-1066.3	N	5.6	0.0004 F	9.2	<0.03	12.4	27.5	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-009 1081.3-1084.3	N	4.5	0.001	11	<0.03	13.3	17.3	<0.0005	<0.0005	0.007 F	0.04 FB5
	RES-009 1098.34-1100.96	N	3.8	0.001	10.8	<0.03	12.7	13.9	<0.0005	<0.0005	0.009 F	0.05 B5
	RES-009 199.18-199.78	N	1.5 F	<0.0005	22.2	<0.03	6.3	2.6 F	<0.0005	<0.0005	<0.03	0.04 F
	RES-009 199.78-200.3	N	1.5 F	<0.0005	24.7	<0.03	7	<3	<0.0005	<0.0005	<0.03	0.04 FB5
	RES-009 281.14-281.64	N	2.7	<0.0005	26.2	<0.03	10.4	<3	<0.0005	0.0005	0.007 F	0.03 FB5
	RES-009 348.3-348.83	N	3.9	<0.0005	21.4	<0.03	9.5	<3	0.0005	0.0002 F	<0.03	0.03 FB5
	RES-009 447.23-447.8	N	0.7 F	0.0002 F	32.8	<0.03	48	<3	0.0002 F	0.0047	0.02 F	0.03 FB5
	RES-009 485.12-485.71	N	1.3 F	0.0004 F	26.5	<0.03	39.4	6.4	<0.0005	0.0015	0.052	0.03 FB5
	RES-009 557.06-557.56	N	0.4 F	0.0019	27.8	<0.03	17.2	13.4	<0.0005	0.0003 F	0.035	0.04 FB5
	RES-009 647.52-648.1	N	2.3	0.0054	23.9	<0.03	33	2 F	<0.0005	0.0007	0.033	0.02 FB5
	RES-009 7.43-7.96	N	0.8 F	<0.0005	16.4	<0.03	4.3	1 F	<0.0005	<0.0005	0.032	0.05
	RES-009 718-718.58	N	1.4 F	0.0016	13	<0.03	5.2	<30 D1	<0.0005	0.0003 F	<0.03	0.04 FB5
	RES-009 810.42-810.98	N	3.9	0.0046	17.6	<0.03	31.9	17.6	<0.0005	<0.0005	0.023 F	0.03 FB5
	RES-009 906.08-906.58	N	5.3	0.0021	14.8	<0.03	26.3	23.9	<0.0005	<0.0005	0.027 F	0.02 FB5
	RES-009 987.9-988.45	N	4.7	0.0207	11.7	<0.03	14.9	34.1	<0.0005	0.0004 F	0.005 F	0.04 FB5
	RES-009 994.67-997.67	N	29.9	0.0003 F	8.9	<0.03	4.1	21.4	<0.0005	0.0002 F	0.007 F	0.04 FB5

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.

B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L
RES-009D	RES-009D 1119.32-1122.42	N	<10	17 F	<20	28	11 F	9.7	24	1 F	91	100	0.82
		FD	<10	8 F	<20	22	13 F	9.5	23	1 F	78	60	1.2
	RES-009D 1128.62-1131.72	N	<10	11 F	<20	30	18 F	9.5	23	7 F	96	70	0.54

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																	
Hole ID	Sample ID	Type	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L
RES-009D	RES-009D 1119.32-1122.42	N	0.0004 F	0.0188	<0.02	<0.01	<0.05	0.0001 F	0.3 F	0.9 F	<0.05	<0.05	0.02 F	1.5	0.26	0.0006	<1	0.006 F	<0.001	<0.05	<0.05
		FD	0.0004 F	0.0169	0.004 F	<0.01	<0.05	<0.0005	0.2 F	0.8 F	<0.05	<0.05	0.01 F	1.4	0.53	0.0003 F	<1	0.006 F	<0.001	<0.05	<0.05
	RES-009D 1128.62-1131.72	N	<0.002	0.0105	<0.02	<0.01	<0.05	<0.0005	2.5	0.9 F	<0.05	<0.05	<0.05	0.7	0.11	0.0006	0.3 F	<0.03	<0.001	<0.05	<0.05

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
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D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS									
Hole ID	Sample ID	Type	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009D	RES-009D 1119.32-1122.42	N	1.4 F	0.0212	14.2	<0.03	16.5	5.3	<0.0005	<0.0005	0.025 F	0.05 B5
		FD	1.6 F	0.022	16.5 M2	<0.03	15.8	3.6	<0.0005	<0.0005	0.028 F	0.04 F
	RES-009D 1128.62-1131.72	N	5.2	0.0509	13.1	<0.03	16.3	5.5	<0.0005	<0.0005	0.022 F	0.04 F

DEG C	degrees Celcius.
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B1	Target analyte detected in method blank at or above the method reporting limit.
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D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS									
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L
RES-009E	RES-009E 1319.1-1322.1	N	6 FB4	<20	<20	<20	<20	5.3	23	21	129	70	0.08 F
	RES-009E 1307.1-1310.1	N	16 B4	<20	<20	<20	<20	6.2	23	13	193	120	0.41
	RES-009E 1335.41-1338.16	N	6 FB4	<20	<20	<20	<20	6.1	23	12	137	80	<0.2
	RES-009E 1351.03-1354.03	N	6 FB4	<20	<20	<20	<20	6.2	23	10	127	70	0.06 F
	RES-009E 1368.07-1370.69	N	81 B4	<20	<20	<20	<20	5.8	23	19	315	220	0.04 F
	RES-009E 1385.61-1388.61	N	36 B4	<20	<20	<20	<20	6	23	17	204	120	0.04 F
	RES-009E 1402.22-1404.53	N	6 FB4	<20	<20	<20	<20	5.1	23	13	132	90	0.64
	RES-009E 1410.5-1411.5	N	10 B4	<20	<20	<20	<20	5.2	23	18	128	70	0.58
	RES-009E 1418.16-1419.8	N	6 FB4	<20	<20	<20	<20	5.8	23	11	141	70	0.11 F
	RES-009E 1431.42-1433.8	N	10 B4	<20	<20	<20	<20	5.8	23	10	107	60	0.08 F
	RES-009E 1464.41-1467.41	N	34 B4	<20	<20	<20	<20	4.6	23	24	232	140	0.17 F
	RES-009E 1446.41-1449.41	N	54 B4	<20	<20	<20	<20	5.9	23	28	287	190	1.47
	RES-009E 1478.13-1481.13	N	12 B4	<20	<20	<20	<20	6.2	23	20	182	100	0.26
	RES-009E 1496.13-1499.13	N	26 B4	<20	<20	<20	<20	5.6	23	22	201	120	0.34
	RES-009E 1514.13-1517.13	N	60 B4	<20	<20	<20	<20	7.1	21.4	11	301	200	0.04 F
	RES-009E 1510.74-1527.19	N	16 B4	<20	<20	3 F	3 F	5.8	23	16	131	90	0.17 F
	RES-009E 1547.47-1550.47	N	42 B4	<20	<20	<20	<20	4.3	23	22	247	130	0.06 F
	RES-009E 1532.4-1534.49	N	36 B4	<20	<20	<20	<20	4.2	23	22	193	100	4.03
	RES-009E 1540.5-1541.5	N	36 B4	<20	<20	<20	<20	6	23	48	190	110	3.98
	RES-009E 1565.47-1568.47	N	155 B7	<20	<20	<20	<20	5.3	23	17	562	300	<0.2
	RES-009E 1597.32-1599.88	N	121 B7	<20	<20	<20	<20	5.6	23	40	427	250	0.33
	RES-009E 1617.38-1619.14	N	12 B4	<20	<20	<20	<20	4.6	23	18	223	100	1.87
	RES-009E 1602.44-1605	N	76 B4	<20	<20	<20	<20	5.8	23	34	289	150	3.21
	RES-009E 1634.46-1637.47	N	42 B4	<20	<20	<20	<20	5.9	23	26	263	130	0.04 F
	RES-009E 1669.07-1672.07	N	14 B4	<20	<20	<20	<20	4.8	23	65	211	100	1.55
	RES-009E 1650.14-1652.81	N	80 B4	<20	<20	<20	<20	4.8	23	64	349	190	7.35
		FD	76 B4	<20	<20	<20	<20	5	23	25	363	210	7.34
	RES-009E 1685.09-1687.47	N	2 FB4	<20	<20	3 F	3 F	6.4	23	8	113	50	0.1 F
	RES-009E 1697.61-1700.61	N	8 FB4	<20	<20	<20	<20	6.3	23	14	170	70	0.06 F
	RES-009E 1718.61-1721.61	N	2 F	<20	<20	6 F	6 F	6.2	23	7	111	50	0.06 F
	RES-009E 1739.63-1742.63	N	26 B1	<20	<20	<20	<20	6.2	23	18	107	50	0.06 F
	RES-009E 1760.86-1763.86	N	8 FB4	<20	<20	<20	<20	5.9	23	15	105	40	0.56
		FD	14 B4	<20	<20	<20	<20	6	23	14	103	40	0.35
	RES-009E 1798.16-1799.79	N	42 B4	<20	<20	3 F	3 F	6.3	23	13	153	70	0.41
	RES-009E 1789.83-1792.31	N	<10	<20	<20	3 F	3 F	6.2	23	23	120	50	0.1 F
	RES-009E 1801.42-1804.15	N	73 B4	<20	<20	<20	<20	5.7	23	54	403	210	0.16 F

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M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	SW1312 Acidity, Total MG/L	Alkalinity, Carbonate (as CaCO3) MG/L	Alkalinity, Hydroxide (as CaCO3) MG/L	Alkalinity, Total (as CaCO3) MG/L	Bicarbonate MG/L	pH PH UNITS	Temperature pH taken at DEG C	Hardness (as CaCO3) MG/L	Conductivity at 25 degrees C UMHOS/CM	Total dissolved solids (Residue, filterable) MG/L	Aluminum MG/L
RES-009E	RES-009E 1818.62-1821.62	N	38 B4	<20	<20	<20	<20	6	23	82	384	180	0.43
	RES-009E 1829.95-1832.48	N	44 B4	<20	<20	<20	<20	6	23	149	555	300	0.09 F
	RES-009E 1846.66-1849.66	N	<10	<20	<20	34	34	7.8	23	221	564	280	0.1 F
	RES-009E 1862.15-1865.15	N	<10	<20	<20	28	26	7.8	21.4	113	247	160	0.06 F
	RES-009E 1867.87-1884.35	N	<10	<20	<20	32	30	8	23	97	249	150	0.07 F
	RES-009E 1880.15-1882.37	N	<10	<20	<20	29	28	8	21.4	209	413	290	<0.2
	RES-009E 1885.5-1886.5	N	<10	4 F	<20	30	26	8	21.4	205	450	300	0.05 F
	RES-009E 1899-1901.88	N	<10	6 F	<20	34	28	8	21.4	159	364	250	0.06 F
	RES-009E 1929.76-1932.58	N	<10	4 F	<20	31	27	8	21.4	213	429	310	<0.2
	RES-009E 1947.67-1950.67	N	<10	5 F	<20	16 F	11 F	8.4	21.4	69	199	120	0.07 F
	RES-009E 1954.6-1956	N	<10	6 F	<20	21	15 F	8.7	21.4	63	185	120	0.06 F
	RES-009E 1967.76-1969.72	N	<10	5 F	<20	23	18 F	8.6	21.4	36	149	100	3.19
	RES-009E 1974.78-1977.89	N	<10	9 F	<20	15 F	6 F	8.8	21.4	75	187	120	<0.2
	RES-009E 1984.74-1987.74	N	4 FB4	<20	<20	<20	<20	7.6	21.4	939	1610	1490	<0.2
	RES-009E 2056.38-2075	N	<10	<20	<20	8 F	8 F	7.5	23	1550	2350	2590	0.07 F

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.
B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																
Hole ID	Sample ID	Type	Antimony MG/L	Beryllium MG/L	Arsenic MG/L	Barium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Nickel MG/L
RES-009E	RES-009E 1319.1-1322.1	N	<0.002	<0.01	0.0007 F	0.066	<0.05	<0.0005	3.9	<3	<0.05	<0.05	<0.05	1.3	0.06	0.0005	0.9 F	0.085	<0.001	<0.05
	RES-009E 1307.1-1310.1	N	<0.002	<0.01	0.0006 F	0.049	<0.05	0.0007	6	<3	<0.05	0.03 F	1.53	0.3 F	6.43	0.0012	1.4	0.253	<0.001	0.01 F
	RES-009E 1335.41-1338.16	N	<0.002	<0.01	0.0009 F	0.012 F	<0.05	<0.0005	3.2	<3	<0.05	<0.05	<0.05	0.3 F	5.44	0.0002 F	0.9 F	0.247	<0.001	<0.05
	RES-009E 1351.03-1354.03	N	<0.002	<0.01	0.0008 F	0.034	<0.05	<0.0005	2.8	<3	<0.05	<0.05	<0.05	0.9	0.09	0.0005	0.7 F	0.103	<0.001	<0.05
	RES-009E 1368.07-1370.69	N	<0.002	<0.01	<0.001	0.031	<0.05	<0.0005	5.6	<3	<0.05	<0.05	<0.05	2.4	46.3	0.0008	1.2	0.93	0.001	<0.05
	RES-009E 1385.61-1388.61	N	<0.002	<0.01	<0.001	0.058	<0.05	<0.0005	5.3	<3	<0.05	<0.05	<0.05	3.2	20.8	0.0005	1	0.518	0.0002 F	<0.05
	RES-009E 1402.22-1404.53	N	<0.002	<0.01	0.0006 F	0.073	<0.05	0.0001 F	3.5	<3	<0.05	0.03 F	0.75	1	0.26	0.0003 F	1	0.065	<0.001	<0.05
	RES-009E 1410.5-1411.5	N	<0.002	<0.01	0.0007 F	0.064	0.01 F	0.0001 F	5.4	<3	<0.05	0.02 F	0.6	0.9	0.11	0.0006	1	0.067	<0.001	<0.05
	RES-009E 1418.16-1419.8	N	<0.002	<0.01	0.0007 F	0.055	<0.05	<0.0005	2.9	<3	<0.05	0.01 F	0.04 F	0.3 F	0.27	0.0004 F	1	0.126	<0.001	<0.05
	RES-009E 1431.42-1433.8	N	<0.002	<0.01	0.0009 F	0.062	<0.05	0.0004 F	3	<3	<0.05	0.02 F	0.7	0.5	<0.05	0.0002 F	0.6 F	0.032	<0.001	<0.05
	RES-009E 1464.41-1467.41	N	<0.002	<0.01	0.0006 F	0.004 F	<0.05	<0.0005	8.4	<3	<0.05	<0.05	<0.05	3.2	18.5	0.001	1.7	0.33	0.0002 F	<0.05
	RES-009E 1446.41-1449.41	N	<0.002	<0.01	0.0009 F	0.018 F	<0.05	0.0041	6.2	<3	<0.05	0.07	2.02	0.8	13.1	0.0007	2	0.223	<0.001	0.02 F
	RES-009E 1478.13-1481.13	N	<0.002	<0.01	0.0008 F	0.012 F	<0.05	0.0008 N1	5	<3	<0.05	0.03 F	0.2	0.2 F	4.04	0.0003 F	1.7	0.201	<0.001	<0.05
	RES-009E 1496.13-1499.13	N	<0.002	<0.01	<0.001	0.006 F	<0.05	<0.0005	6	0.6 F	<0.05	0.02 F	<0.05	0.4 F	10.7	0.0006	1.6	0.328	<0.001	<0.05
	RES-009E 1514.13-1517.13	N	0.0004 F	<0.01	<0.001	0.004 F	<0.05	<0.0005	3.4	<3	<0.05	<0.05	<0.05	1.2	35.3	0.0003 F	1.9	0.543	0.0005 F	<0.05
	RES-009E 1510.74-1527.19	N	<0.002	<0.01	<0.001	<0.02	<0.05	0.0005	2.9	<3	<0.05	0.03 F	0.01 F	0.5	0.03 F	0.0003 F	0.9 F	0.042	<0.001	0.01 F
	RES-009E 1547.47-1550.47	N	<0.002	<0.01	<0.001	0.018 F	<0.05	<0.0005	16.4	0.7 F	<0.05	<0.05	<0.05	9.4	25	0.0009	1.8	0.709	0.0003 F	<0.05
	RES-009E 1532.4-1534.49	N	<0.002	<0.01	<0.001	0.014 F	<0.05	0.0031	6.4	<3	<0.05	0.06	3.78	1.4	6.14	0.0006	1.4	0.076	<0.001	0.03 F
	RES-009E 1540.5-1541.5	N	<0.002	<0.01	<0.001	0.013 F	<0.05	0.003	6.6	<3	<0.05	0.06	3.6	1.4	6.26	0.0004 F	1.4	0.079	<0.001	0.02 F
	RES-009E 1565.47-1568.47	N	<0.002	<0.01	<0.001	0.029	<0.05	<0.0005	4	<3	<0.05	<0.05	<0.05	1.2	85.4	0.0029 B5	1.6	1.69	<0.001	<0.05
	RES-009E 1597.32-1599.88	N	<0.002	<0.01	<0.001	0.021	<0.05	<0.0005	15	0.7 F	0.01 F	0.01 F	<0.05	6.6 D2	73.1	0.0006 B5	0.5 F	1.17	<0.001	<0.05
	RES-009E 1617.38-1619.14	N	<0.002	<0.01	<0.001	0.048	<0.05	0.0002 F	10.8	0.5 F	<0.05	0.01 F	0.04 F	8.2 D2	<0.05 B5	0.0005 B5	1.7	0.092	<0.001	<0.05
	RES-009E 1602.44-1605	N	0.0004 F	<0.01	<0.001	0.022	<0.05	0.0004 F	5.8	<3	<0.05	0.13	0.28	1.7	36.7	0.0023 B5	0.9 F	0.597	<0.001	0.06
	RES-009E 1634.46-1637.47	N	<0.002	<0.01	<0.001	0.018 F	<0.05	<0.0005	8.1	<3	<0.05	0.01 F	<0.05	4.3	19.3	0.0006 B5	1.4	0.566	<0.001	<0.05
	RES-009E 1669.07-1672.07	N	<0.002	<0.01	<0.001	0.05	<0.05	0.002	7.6	<3	<0.05	0.03 F	0.35	2.7	0.99 B5	0.001 B5	1.5	0.154	<0.001	<0.05
	RES-009E 1650.14-1652.81	N	<0.002	<0.01	<0.001	0.007 F	<0.05	0.0008	23.5	<3	<0.05	0.36	24.6	10.9 D2	2.07	0.0008 B5	1.4	0.303	<0.001	0.07
		FD	<0.002	<0.01	<0.001	0.008 F	<0.05	0.0008	23.3	0.5 F	<0.05	0.36	24.2	12 D2	2.03	0.0011 B5	1.4	0.286	<0.001	0.07
	RES-009E 1685.09-1687.47	N	<0.002	<0.01	0.0015	0.115 R1	<0.05	0.0004 F	2.2	0.7 F	<0.05	<0.05	0.05	1.4 M2	<0.05 B5	0.0023 B5R1	0.6 F	0.027 F	<0.001	<0.05
	RES-009E 1697.61-1700.61	N	<0.002	<0.01	0.0007 F	0.088	<0.05	<0.0005	3.9	<3	<0.05	<0.05	<0.05	4.4	1.88	0.0002 FB5	1	0.2	<0.001	<0.05
	RES-009E 1718.61-1721.61	N	0.0019 F	<0.01	0.0011	0.089	<0.05	0.001	1.8	<3	<0.05	0.01 F	0.06	0.6	<0.05 B5	0.0012 B5	0.6 F	0.162	<0.001	<0.05
	RES-009E 1739.63-1742.63	N	<0.002	<0.01	<0.001	0.023	<0.05	<0.0005	7.1	0.8 F	<0.05	<0.05	<0.05	7.1 D2	9.26	0.0003 FB5	<1	0.858	<0.001	<0.05
	RES-009E 1760.86-1763.86	N	<0.002	<0.01	0.0022	0.007 F	<0.05	0.0007	5	0.5 F	<0.05	0.02 F	0.54	4.1	0.02 FB5	0.0004 FB5	0.5 F	0.115	<0.001	<0.05
		FD	<0.002	<0.01	0.0028	0.005 F	<0.05	0.0007	4.8	0.5 F	<0.05	0.01 F	0.35	3.4	<0.05	0.0004 FB5	0.5 F	0.113	<0.001	<0.05
	RES-009E 1798.16-1799.79	N	<0.002	<0.01	<0.001	<0.02 V1	<0.05	0.0094	7.7	0.6 F	<0.05	0.02 F	0.05	3.9	<0.05 B5	0.0004 FB5	0.8 F	0.278	<0.001	<0.05
	RES-009E 1789.83-1792.31	N	<0.002	<0.01	0.0011	<0.02 V1	<0.05	<0.0005	4.2	<3	0.02 F	0.01 F	0.02 F	6.1 D2	0.07 B5	0.0008 B5	0.5 F	0.136	<0.001	0.01 F
	RES-009E 1801.42-1804.15	N	<0.002	<0.01	<0.001	<0.02	<0.05	<0.0005	19.8	<3	<0.05	<0.05	<0.05	11.6 D2	43.2	0.0005 B5	1.1	0.905	<0.001	<0.05

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.
B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS																
Hole ID	Sample ID	Type	Antimony MG/L	Beryllium MG/L	Arsenic MG/L	Barium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Nickel MG/L
RES-009E	RES-009E 1818.62-1821.62	N	<0.002	<0.01	<0.001	0.003 F	<0.05	<0.0005	21.7	<3	<0.05	<0.05	<0.05	10.6 D2	14.6	0.0002 FB5	6.7	0.91	<0.001	<0.05
	RES-009E 1829.95-1832.48	N	<0.002	<0.01	<0.001	0.008 F	<0.05	<0.0005	26.3	<3	<0.05	<0.05	<0.05	10.4 D2	23.8	0.0003 FB5	20.2	1.8	<0.001	<0.05
	RES-009E 1846.66-1849.66	N	<0.002	<0.01	<0.001	0.005 F	<0.05	<0.0005	68.8	0.6 F	<0.05	<0.05	<0.05	2.9	0.03 FB5	0.0006 B5	12	0.095	<0.001	<0.05
	RES-009E 1862.15-1865.15	N	<0.002	<0.01	<0.002	0.016 F	0.03 FB1	<0.0005	36.9	0.7 F	<0.05	<0.05	<0.05	2	<0.05	<0.0005	5	0.008 F	<0.001	<0.05
	RES-009E 1867.87-1884.35	N	<0.002	<0.01	<0.002	0.056	0.08 B1	<0.0005	30.3	0.9 F	<0.05	<0.05	<0.05	1.8	<0.05	0.0004 F	5.2	0.007 F	<0.001	<0.05
	RES-009E 1880.15-1882.37	N	<0.002	<0.01	<0.002	0.026	0.05 B1	<0.0005	70.3	<3	<0.05	<0.05	<0.05	1.3	<0.05	<0.0005	8.1	0.024 F	<0.001	<0.05
	RES-009E 1885.5-1886.5	N	<0.002	<0.01	<0.002	0.037	0.15 B1	<0.0005	68.1	<3	<0.05	<0.05	<0.05	1.5	<0.05	<0.0005	8.5	0.014 F	<0.001	<0.05
	RES-009E 1899-1901.88	N	<0.002	<0.01	<0.002	0.044	0.1 B1	<0.0005	55.3	<3	<0.05	<0.05	<0.05	1.7	<0.05	<0.0005	5.1	0.021 F	<0.001	<0.05
	RES-009E 1929.76-1932.58	N	<0.002	<0.01	<0.002	0.029	0.09 B1	<0.0005	75.9	0.9 F	<0.05	<0.05	<0.05	1.4	<0.05	0.0004 F	5.6	0.018 F	<0.001	<0.05
	RES-009E 1947.67-1950.67	N	<0.002	<0.01	<0.002	0.021	0.12 B1	<0.0005	20	<3	0.01 F	<0.05	0.11	2	<0.05	0.006	4.6	<0.03	<0.001	<0.05
	RES-009E 1954.6-1956	N	<0.002	<0.01	<0.002	0.02	0.13 B1	<0.0005	17.4	<3	<0.05	<0.05	<0.05	1.8	<0.05	<0.0005	4.7	<0.03	<0.001	<0.05
	RES-009E 1967.76-1969.72	N	<0.002	<0.01	<0.002	0.068	0.14 B1	<0.0005	11.4	0.5 F	<0.05	<0.05	0.31	1.3	0.66	<0.0005	1.9	0.007 F	<0.001	<0.05
	RES-009E 1974.78-1977.89	N	<0.002	<0.01	<0.002	0.014 F	0.11 B1	<0.0005	19.8	<3	<0.05	<0.05	<0.05	1.1 M2	<0.05	0.0001 F	6.3	<0.03	<0.001	<0.05
	RES-009E 1984.74-1987.74	N	<0.002	<0.01	0.0005 F	0.043	0.11 B1	<0.0005	375	0.9 F	<0.05	<0.05	<0.05	1.3	1.15	<0.0005	0.4 F	0.487	<0.001	<0.05
	RES-009E 2056.38-2075	N	<0.004 D2	<0.01	<0.004 D2	0.045	0.15 B1	<0.001 D2	609	<3	<0.05	<0.05	<0.05	1.4	<0.05	0.0008 FD2	6.7	0.049	<0.001	<0.05

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V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	Molybdenum MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	RES-009E 1319.1-1322.1	N	<0.05	26.4	0.0007	6.8	<0.03	0.7 F	37.6	<0.0005	<0.0005	<0.03	0.01 F
	RES-009E 1307.1-1310.1	N	<0.05	27.5	0.0003 F	7.6	<0.03	2.5	80.9	0.0003 F	0.0005	<0.03	0.06
	RES-009E 1335.41-1338.16	N	<0.05	26.7	0.0007	6.1	<0.03	0.9 F	45.9	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1351.03-1354.03	N	<0.05	27.8	0.0008	8	<0.03	0.8 F	37.6	<0.0005	<0.0005	<0.03	<0.05
	RES-009E 1368.07-1370.69	N	0.01 F	28.8	0.0009	6.4	<0.03	1 F	165 D2	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1385.61-1388.61	N	0.02 F	24.6	0.0009	6.3	<0.03	1 F	85.1	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1402.22-1404.53	N	<0.05	24.3	0.0008	6.4	<0.03	0.9 F	48.2	0.0002 F	0.0001 F	<0.03	0.03 F
	RES-009E 1410.5-1411.5	N	<0.05	22.3	0.0008	6.2	<0.03	1 F	46.2	0.0001 F	<0.0005	<0.03	0.05
	RES-009E 1418.16-1419.8	N	<0.05	30.4	0.0003 F	7.8	<0.03	1 F	45	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1431.42-1433.8	N	<0.05	21.3	0.0004 F	10.2	<0.03	0.8 F	31.2	0.0004 F	<0.0005	<0.03	0.03 F
	RES-009E 1464.41-1467.41	N	<0.05	28.2	0.0008	6.9	<0.03	0.9 F	96.5	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1446.41-1449.41	N	<0.05	33.3	0.0012	8.7	<0.03	1.1 F	157 D2	0.0005	0.0005	<0.03	0.07
	RES-009E 1478.13-1481.13	N	<0.05	31.9	0.0008 N1	8.4	<0.03	1 F	71.5	0.0002 F	0.0001 F	<0.03	0.04 F
	RES-009E 1496.13-1499.13	N	<0.05	28.5	0.0005	7.4	<0.03	1.1 F	82.7	<0.0005	<0.0005	<0.03	0.04 F
	RES-009E 1514.13-1517.13	N	0.01 F	36.5	0.0011	6.9	<0.03	0.9 F	147 D2	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1510.74-1527.19	N	<0.05	22.9	0.0011	9.8	<0.03	1 F	36.3	<0.0005	<0.0005	<0.03	<0.05
	RES-009E 1547.47-1550.47	N	0.02 F	13.6	0.0008	6.9	<0.03	1.3 F	91.2	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1532.4-1534.49	N	<0.05	14.9	0.0014	5	<0.03	1.1 F	94.8	0.0002 F	0.0014	<0.03	0.07
	RES-009E 1540.5-1541.5	N	<0.05	15.2	0.0014	4.7	<0.03	1.2 F	94.8	0.0001 F	0.0013	<0.03	0.08
	RES-009E 1565.47-1568.47	N	0.03 F	26.8	0.001	5	<0.03	1.5 F	259 D2B7	<0.0005	<0.0005	<0.03	0.05
	RES-009E 1597.32-1599.88	N	0.03 F	2	0.0003 F	5.3	<0.03	0.4 F	187 D2B7	<0.0005	<0.0005	<0.03	0.51
	RES-009E 1617.38-1619.14	N	<0.05	17	0.002	7.8	<0.03	2.5	55.3 B7	<0.0005	<0.0005	<0.03	0.1
	RES-009E 1602.44-1605	N	0.02 F	1.1 F	0.0008	5.6	<0.03	<2	146 D2B7	<0.0005	0.0018	<0.03	2.76
	RES-009E 1634.46-1637.47	N	<0.05	21.9	0.0003 F	5	<0.03	1.3 F	73.8 B7	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1669.07-1672.07	N	<0.05	18.9	0.0015	5.1	<0.03	1.1 F	69.3 B7	0.0001 F	0.0002 F	<0.03	2.54
	RES-009E 1650.14-1652.81	N	0.02 F	2.6	0.0015	7.5	<0.03	<2	171 D2B1	<0.0005	0.0014	<0.03	4.07
		FD	0.02 F	2.4	0.0015	7.3	<0.03	<2	191 D2B7	<0.0005	0.0014	<0.03	4.05
	RES-009E 1685.09-1687.47	N	0.04 F	20.3	0.0002 F	7.2	<0.03	0.6 F	20 B1	0.0002 F	<0.0005	<0.03	0.04 F
	RES-009E 1697.61-1700.61	N	0.02 F	26.7	0.0002 F	7	<0.03	0.6 F	35.7 B1	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1718.61-1721.61	N	0.02 F	19.4	0.0003 F	7.1	<0.03	0.5 F	21.5	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1739.63-1742.63	N	<0.05	0.4 F	<0.0005	7.1	<0.03	0.5 F	22.7	<0.0005	<0.0005	<0.03	0.01 F
	RES-009E 1760.86-1763.86	N	<0.05	10.7	0.0003 F	4.7	<0.03	0.4 F	20.4 B1	<0.0005	<0.0005	<0.03	0.05
		FD	0.02 F	10.8	0.0003 F	4.6	<0.03	0.5 F	19.3 B1	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1798.16-1799.79	N	0.02 F	15.1	0.0002 F	6.7	<0.03	0.6 F	30.6 B1	0.0005	<0.0005	<0.03	0.56
	RES-009E 1789.83-1792.31	N	0.03 F	14.2	0.0002 F	5	<0.03	0.4 F	12.5 B1	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1801.42-1804.15	N	0.03 F	11.2	0.0008	6	<0.03	0.6 F	144 D2B1	<0.0005	<0.0005	<0.03	0.06

DEG C	degrees Celcius.
MG/L	micrograms per liter.
UMHOS/CM	micro ohms per centimeter.
B1	Target analyte detected in method blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B5	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7	Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
F	Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
M2	Matrix spike recovery was low.
M3	The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N	Normal.
N1	See Table E-2.
R1	Relative percent difference (RPD) exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX C
SYNTHETIC PRECIPITATION LEACHING PROCEDURE RESULTS

			ACZS										
Hole ID	Sample ID	Type	Molybdenum MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Sulfate (as SO4) MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	RES-009E 1818.62-1821.62	N	0.03 F	18.8	0.0007	7.5	<0.03	0.8 F	114 D2B7	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1829.95-1832.48	N	0.02 F	12.3	0.0006	8.7	<0.03	6.2	213 D2B7	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1846.66-1849.66	N	0.07	7.4	0.0017	3	<0.03	3.3	152 D2B7	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1862.15-1865.15	N	0.06	3.6	0.0014	4 B1	<0.03	20.3 B1	77.6	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1867.87-1884.35	N	0.06	4.4	0.003	4.2	<0.03	5.2 B1	67.1	<0.0005	0.0002 F	<0.03	0.06 B1
	RES-009E 1880.15-1882.37	N	0.04 F	5.5	0.003	4.2 B1	<0.03	4.9 B1	169 D2	<0.0005	0.0001 F	<0.03	<0.05
	RES-009E 1885.5-1886.5	N	0.06	4.9	0.0032	6 B1	<0.03	11.1 B1	178 D2	0.0003 F	0.0002 F	<0.03	0.04 F
	RES-009E 1899-1901.88	N	0.03 F	8.8	0.0021	5.4 B1	<0.03	9.4 B1	125 D2	0.0001 F	<0.0005	<0.03	0.02 F
	RES-009E 1929.76-1932.58	N	<0.05	2.6	0.0017	5.8 B1	<0.03	8.2 B1	160 D2	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1947.67-1950.67	N	0.04 F	10.6	0.0009	8.7 B1	<0.03	8.7 B1	66.4	<0.0005	<0.0005	<0.03	0.05
	RES-009E 1954.6-1956	N	0.03 F	12.6	0.0025	10.2 B1	<0.03	4.8 B1	56.3	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1967.76-1969.72	N	<0.05	19.2	0.0012	22.2 B1	<0.03	7.2 B1	38.8	<0.0005	<0.0005	<0.03	0.02 F
	RES-009E 1974.78-1977.89	N	<0.05	2.4	0.0038	16.7 B1	<0.03	7.7 B1	57.6	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 1984.74-1987.74	N	<0.05	<2	<0.0005	12.6 B1	<0.03	6.6 B1	1030 D2	<0.0005	<0.0005	<0.03	0.03 F
	RES-009E 2056.38-2075	N	0.02 F	24.2	0.0027 D2	5.2	<0.03	4.2 B1	1870 D2	0.001 <D2	0.001 FD2	0.008 F	0.06 B1

DEG C degrees Celcius.
MG/L micrograms per liter.
UMHOS/CM micro ohms per centimeter.
B1 Target analyte detected in method blank at or above the method reporting limit.
B4 Target analyte detected in blank at or above method acceptance criteria.
B5 Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1 Sample required dilution due to matrix.
D2 Sample required dilution due to high concentration of target analyte.
F Analyte was positively identified but he reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD Field duplicate.
M2 Matrix spike recovery was low.
M3 The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level.
N Normal.
N1 See Table E-2.
R1 Relative percent difference (RPD) exceeded the method control limit.
R4 RPD exceeded the method control limit. Recovery met acceptance criteria.
V1 Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Beta, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	Aluminum %	Antimony PPM	Arsenic PPM	Barium PPM	Beryllium PPM	Bismuth PPM	Cadmium PPM
RES-001C	RES-001C 1502-1505	N	3.5	6.9	1.1	3.8	99.7	7.2	0.22	1.3	600	2.64	5.71	1.15
	RES-001C 1530-1533	N	7.3	11	0.57 F	3	99.4	6.38	0.24	0.6	480	2.21	2.64	0.29
	RES-001C 1557-1560	N	6.4	12	0.82 F	2.2 F	99.7	6.24	0.31	0.6	320	2.51	1.19	0.04
	RES-001C 1584-1587	N	9.1	16	0.88 F	2.2 F	99.3	6.82	0.28	0.4	560	2.32	0.55	0.08
		FD	12	16	0.99	2.8 F	99.3	6.53	0.27	0.6	490	2.42	0.6	0.09
	RES-001C 1611-1614	N	8.9	16	1	2.7 F	99.2	6.21	1.07	3.8	530	2.68	8.69	1.66
	RES-001C 1639-1642	N	8	15	1.1	3.2	99.2	6.72	0.54	1.4	610	2.94	0.87	0.71
	RES-001C 1666-1669	N	9.4	14	0.83 F	1.9 F	99.3	6.36	0.39	0.5	540	2.69	0.53	0.22
	RES-001C 1693-1696	N	12	15	0.88	1.1 F	99.2	6.58	0.53	3.7	630	2.81	2.27	0.72
	RES-001C 1711-1714.96	N	12	23	1.9	1.9 F	99.2	7.39	0.39	1.1	590	2.28	0.51	0.19
	RES-001C 1745-1748	N	14	25	1.6	0.95 F	99.5	6.72	0.29	1.1	480	2.85	0.52	0.08
	RES-001C 1771.75-1791.4	N	4.6	--	1.3	5.7	99.5	1.02	0.63	36	10	7.84	43.3	1.64
	RES-001C 1781-1784	N	9.4	--	1.6	3.1	99.4	0.75	0.9	10	10	9.63	25.2	0.9
	RES-001C 1799-1802	N	12 M2	--	3.9	3.6	99.6	0.74	4.47	<5	10	3.79	2.54	2.97
		FD	13	--	5.4	2.6	99.6	0.76	3.21	11	10	3.26	2.48	2.97
	RES-001C 1814-1817	N	7.2	--	3.4	5.4	98.2	7.24	0.84	1.4	110	12.65	0.38	0.14
	RES-001C 1837-1840	N	5.9	--	1.4	4.3	99	3.77	1.48	<5	50	5.18	0.87	0.55
	RES-001C 1855-1858	N	11	--	3	3.3	98.9	2.32	0.61	7	90	8.71	3.05	0.66
	RES-001C 1873-1876	N	18	--	5.8	3.7	98.1	4.12	0.48	0.7	170	8.23	0.86	0.84
	RES-001C 1892.5-1895	N	2.5	--	2	3.2	98.4	1.58	0.61	3	20	6.92	22.1	11.55
	RES-001C 1934-1937	N	2.2	--	0.48	3.6	99.9	0.87	1.11	<0.2	30	0.93	7.84	<0.02
	RES-001C 1987-1990	N	1.8	--	0.76	2.1	100	6.18	0.94	<0.2	190	3.92	1.75	0.38
	RES-001C 2007-2010	N	9.8	--	0.51	1.5	99.6	6.59	0.21	0.9	500	2.38	1.4	0.42
		FD	10	--	0.51	2.2	99.6	6.58	0.23	0.9	490	2.44	1.33	0.47
	RES-001C 2041-2044	N	2.4	--	0.68	0.86	99.6	7.74	0.38	0.3	430	3.09	1.58	0.7
	RES-001C 2115-2118	N	8	--	1.3	1.6	98.7	4.16	0.99	<0.2	70	5.49	3.85	0.8
	RES-001C 2164.4-2166.3	N	7.8	--	0.7	3.1	99.6	0.58	3.75	17.1	70	0.25	23.6	0.11
	RES-001C 2214-2215	N	2.9	--	1.2	1.7	99.7	0.47	0.27	<5	<10	4.39	1.82	3.42
	RES-001C 2242-2244	N	8.4	--	1.4	1.9	99.9	5.96	0.96	<0.2	210	3.75	18.95	0.02

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Calcium %	Cerium PPM	Cesium PPM	Chromium, Total PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM	Iron %	Lanthanum PPM	Lead PPM	Lithium PPM	Magnesium %
RES-001C	RES-001C 1502-1505	N	0.14	48.7	2.9	175	13.6	2450	23.3	0.11	0.727	2.99	24.3	21.3	17.2	0.44
	RES-001C 1530-1533	N	0.36	45.8	5.86	200	14.6	1685	22	0.13	0.339	4.2	22	16.7	15	0.88
	RES-001C 1557-1560	N	0.47	46	3.36	203	21.4	906	20.2	0.15	0.086	5.36	22.6	6.1	18.5	0.72
	RES-001C 1584-1587	N	0.48	48	4.07	198	24.2	720	20.7	0.13	0.218	5.04	23.2	6.9	25.2	1.03
		FD	0.47	49.7	4.05	200	24.4	725	20.7	0.14	0.224	4.95	24	6.9	24.6	0.99
	RES-001C 1611-1614	N	0.78	47.4	3.98	181	29.5	3360	20.8	0.14	1.615	4.61	23.7	285	19.1	0.81
	RES-001C 1639-1642	N	0.63	48.7	4.92	235	27.2	1270	20.8	0.14	0.759	5.57	25	179	17.9	0.97
	RES-001C 1666-1669	N	0.7	46.2	5.72	167	21.5	1690	20	0.13	0.171	4.37	23	29.8	20.3	0.9
	RES-001C 1693-1696	N	0.58	45	5.82	171	20	2000	21.2	0.12	0.454	3.97	21.4	126	20.8	1.07
	RES-001C 1711-1714.96	N	2.95	50.9	6.22	168	18.8	993	22.2	0.13	0.116	4.05	22.9	10.5	15.4	1.15
	RES-001C 1745-1748	N	4.36	48.8	5.47	236	14.2	1040	21.1	0.13	0.337	3.77	22.9	8.2	19.1	1.57
	RES-001C 1771.75-1791.4	N	17.35	21.6	0.83	182	8.9	2620	13.1	0.18	1.75	7.47	15.8	17.8	23.2	6.42
	RES-001C 1781-1784	N	15.4	31	0.94	14	6.3	1300	7.17	0.1	0.749	1.86	22.3	5.8	13.1	10.25
	RES-001C 1799-1802	N	19.05	5.42	0.32	171	17.7	9160	30.7	0.34	5.59	13.6	2.8	6.3	19.5	2.29
		FD	19.55	5.78	0.38	17	18.1	9280	32.2	0.32	5.8	13.85	2.9	6.4	20.1	2.37
	RES-001C 1814-1817	N	8.51	70.9	7.22	71	11.7	2140	28.2	0.15	0.634	3.62	34.8	6.7	20.3	6.06
	RES-001C 1837-1840	N	11.8	50.2	3.18	174	18.2	4270	17.65	0.13	0.791	4.07	25.9	47.5	15.4	7.31
	RES-001C 1855-1858	N	14.15	41.8	0.44	212	13.2	3780	28.7	0.16	4	10.4	19.2	29.1	28.8	4.02
	RES-001C 1873-1876	N	4.83	34.3	5.81	108	34.3	10000	32.5	0.16	1.255	6.09	14.4	36.2	36.7	7.73
	RES-001C 1892.5-1895	N	8.9	17.95	2.46	48	20	10000	17.95	0.12	4.09	4.72	8.5	7.7	72.4	11.8
	RES-001C 1934-1937	N	0.1	14.2	0.28	719	20.4	8900	4.5	0.18	0.298	3.61	5.3	13.3	2.1	0.12
	RES-001C 1987-1990	N	0.63	19.95	7.31	426	73.9	10000	27.4	0.39	1	9.19	8	9.6	16.5	2.79
	RES-001C 2007-2010	N	1.48	22.2	9.23	328	73.2	10000	26.5	0.19	0.646	9.72	9.3	5.9	21.3	3.07
		FD	1.47	23.2	9.38	318	72.6	10000	26.6	0.2	0.625	9.64	9.7	5.9	22.4	3.07
	RES-001C 2041-2044	N	2.07	31.7	9.61	296	63.1	10000	25.1	0.2	0.549	7.93	14	4.2	37.3	3.78
	RES-001C 2115-2118	N	8.3	39.2	4.53	123	40.1	10000	30.1	0.34	0.997	7.29	17.7	4.2	21	5.17
	RES-001C 2164.4-2166.3	N	0.14	17.95	0.06	525	88.2	10000	1.64	0.49	0.992	36.6	7.2	212	2.8	0.05
	RES-001C 2214-2215	N	10.5	4.82	0.06	175	32.8	10000	7.62	0.12	2.36	7.12	2.1	5.4	1.6	9.03
	RES-001C 2242-2244	N	3.28	57.7	2.2	383	57.6	10000	29.9	0.32	1.1	9.82	23.4	2.2	5.1	2.04

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Molybdenum PPM	Phosphorus, Total (as P) PPM	Potassium %	Rubidium PPM	Sulfide %	Thorium PPM	Tin PPM	Titanium %	Yttrium PPM	Zirconium PPM	Manganese PPM	Nickel PPM	Niobium PPM	Rhenium PPM	Selenium PPM
RES-001C	RES-001C 1502-1505	N	11.75	490	3.39	153	2.8	3.7	5.4	0.166	8.6	14.8	78	12.1	3.6	0.012	5
	RES-001C 1530-1533	N	17.75	560	3.8	168	3.45	3.9	5.1	0.154	11.5	15.3	274	19.6	3.5	0.016	6
	RES-001C 1557-1560	N	61.2	520	3.53	154	4.82	3.9	6.3	0.124	10.9	12.4	275	15.2	2.6	0.057	9
	RES-001C 1584-1587	N	24	630	3.65	158	2.85	3.8	4	0.166	10.9	11.6	443	24.7	3.5	0.017	6
		FD	23.6	620	3.71	164.5	2.85	3.8	3.8	0.16	10.9	11.5	438	24.4	3.4	0.016	7
	RES-001C 1611-1614	N	62.9	590	3.39	159.5	2.57	3.6	3.8	0.175	10.6	11.3	659	18.8	3.8	0.055	7
	RES-001C 1639-1642	N	29.9	530	3.56	177	2	4	3.8	0.165	10.7	11.5	2390	21.5	3.9	0.033	5
	RES-001C 1666-1669	N	93.2	560	3.53	169.5	2.16	3.5	4.7	0.161	10.2	13.5	1465	18.2	3.4	0.134	6
	RES-001C 1693-1696	N	68.4	530	3.77	183	1.87	4.1	3.5	0.175	10.3	10.4	1030	17.8	3.7	0.083	6
	RES-001C 1711-1714.96	N	37.9	920	3.47	166.5	1.98	4.2	3.5	0.345	21	15.8	589	6.2	4.7	0.039	5
	RES-001C 1745-1748	N	116.5	780	3.01	142.5	2.82	4.1	5.3	0.412	20.4	19	756	13.3	7	0.205	5
	RES-001C 1771.75-1791.4	N	184.5	500	0.21	17.7	1.92	1.8	9.1	0.058	24.2	32.5	3850	16.2	1.8	0.458	7
	RES-001C 1781-1784	N	44.1	360	0.27	24.1	2.42	1.5	4.3	0.054	16.5	27.8	2810	12.9	1.5	0.071	5
	RES-001C 1799-1802	N	532	320	0.03	2.9	3.61	1.4	39.6	0.055	10.8	32.9	3420	7.1	1.7	1.025	14
		FD	555	330	0.03	2.9	3.66	1.6	45.4	0.057	11.4	35.4	3510	5.5	2.1	1.055	15
	RES-001C 1814-1817	N	94.5	1000	2.35	116.5	1.73	12.1	16.7	0.405	23	54.3	2300	21.5	14.1	0.177	6
	RES-001C 1837-1840	N	89.8	400	1.34	82.2	2.36	6.5	8.3	0.193	16.9	27.2	3870	15.6	6.8	0.15	7
	RES-001C 1855-1858	N	34	320	0.3	16.5	1.14	4.3	36.1	0.118	13.3	54.6	4610	9.5	4.6	0.054	6
	RES-001C 1873-1876	N	64.6	650	2.39	155.5	1.96	7.8	19.5	0.23	19.8	55.6	1505	21.3	8.7	0.13	14
	RES-001C 1892.5-1895	N	125.5	420	0.7	58	2.59	2.8	12.9	0.087	9.8	22.1	2360	14.5	3.7	0.239	11
	RES-001C 1934-1937	N	910	60	0.41	18.5	3.38	1.9	4.8	0.051	4	15.5	86	28.4	1.1	1.48	17
	RES-001C 1987-1990	N	1105	1090	3.81	242	3.59	0.3	9.3	0.608	17.5	61.7	1125	96.5	1.2	1.75	18
	RES-001C 2007-2010	N	291	1090	4.53	217	2.96	0.8	7.3	0.66	19.5	21	1175	88.9	1.7	0.44	14
		FD	293	1070	4.51	264	2.89	0.8	7.4	0.656	19.7	20.7	1170	88.6	1.7	0.447	14
	RES-001C 2041-2044	N	345	1210	3.9	254	3.9	0.9	7.4	0.516	19.9	27.7	1120	108	3	0.491	15
	RES-001C 2115-2118	N	736	750	1.63	121.5	4.86	2	18.4	0.304	22.3	50	2280	28.2	4.2	1.18	18
	RES-001C 2164.4-2166.3	N	40.1	200	0.06	2.9	10	1.4	20.6	0.006	0.9	0.5	53	63.6	0.2	0.041	49
	RES-001C 2214-2215	N	102	130	0.06	3.4	6.92	0.9	7.9	0.015	4.1	11.3	3040	7.7	0.6	0.115	15
	RES-001C 2242-2244	N	673	3330	2.74	146.5	8.5	2.1	13.8	0.546	19.1	29.7	455	58.4	2	0.975	19

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Silver PPM	Sodium %	Strontium PPM	Tantalum PPM	Tellurium PPM	Thallium PPM	Tungsten PPM	Uranium PPM	Vanadium PPM	Zinc PPM
RES-001C	RES-001C 1502-1505	N	0.99	0.07	184	0.28	2.8	0.81	25.5	2.4	56	716
	RES-001C 1530-1533	N	0.89	0.38	149.5	0.26	1.58	0.82	17.4	2	54	435
	RES-001C 1557-1560	N	0.28	0.51	121	0.21	0.68	0.53	18.3	1.7	56	221
	RES-001C 1584-1587	N	0.25	0.48	146.5	0.27	0.48	0.73	19.5	1.6	59	552
		FD	0.26	0.46	142	0.26	0.53	0.72	18.6	1.5	57	543
	RES-001C 1611-1614	N	16	0.25	186	0.28	0.7	0.85	25.2	3.3	57	1420
	RES-001C 1639-1642	N	1.1	0.3	145.5	0.29	0.4	0.94	16.5	1.6	57	1110
	RES-001C 1666-1669	N	0.63	0.2	96.6	0.25	0.2	0.82	16.7	1.5	64	645
	RES-001C 1693-1696	N	1.15	0.09	96.1	0.28	0.45	1.06	15.5	1.8	61	715
	RES-001C 1711-1714.96	N	0.35	1.31	217	0.31	0.22	0.88	8.7	1.2	97	125
	RES-001C 1745-1748	N	0.48	1.1	257	0.46	0.27	0.71	14	1.7	110	125
	RES-001C 1771.75-1791.4	N	1.69	0.03	42.4	0.12	21.6	0.07	103	3.9	28	624
	RES-001C 1781-1784	N	0.75	0.02	25	0.11	4.43	0.06	19.6	3.9	18	386
	RES-001C 1799-1802	N	5.09	<0.01	29.8	0.12	1.38	0.04	184.5	9.8	40	659
		FD	5.35	<0.01	31.5	0.14	1.56	0.05	191	10.3	41	672
	RES-001C 1814-1817	N	0.8	0.18	129	1.06	0.15	0.52	41.3	6.8	100	126
	RES-001C 1837-1840	N	1.24	0.13	81.6	0.53	0.35	0.35	24.4	3.3	49	325
	RES-001C 1855-1858	N	1.12	0.03	51.2	0.35	0.97	0.08	129.5	4.8	41	306
	RES-001C 1873-1876	N	2.79	0.05	90	0.71	0.47	0.49	66.9	9	77	285
	RES-001C 1892.5-1895	N	3.67	0.04	38.2	0.29	12.3	0.27	73.2	5	40	2880
	RES-001C 1934-1937	N	3.95	<0.01	3.7	0.11	0.59	0.03	13.2	0.9	35	12
	RES-001C 1987-1990	N	3.93	0.01	19.5	0.11	0.79	0.99	21.8	2.3	214	313
	RES-001C 2007-2010	N	3.77	0.04	66.2	0.14	1	1.36	14.9	1.4	192	223
		FD	3.79	0.04	66.6	0.13	0.95	1.35	14.5	1.3	191	222
	RES-001C 2041-2044	N	4.46	0.06	122.5	0.23	0.71	1.26	17.3	1.2	209	259
	RES-001C 2115-2118	N	4.77	<0.01	59.5	0.32	0.98	0.56	41.4	3.2	97	299
	RES-001C 2164.4-2166.3	N	36.3	<0.01	61.6	0.05	39.5	0.08	5.6	0.6	18	80
	RES-001C 2214-2215	N	7.47	0.01	35.3	0.05	1.62	0.03	161.5	1.9	22	868
	RES-001C 2242-2244	N	4.37	<0.01	118.5	0.18	1.62	0.55	45.6	3.7	220	96

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Beta, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Antimony PPM	Arsenic PPM	Barium PPM	Beryllium PPM
RES-002A	RES-002A 858-861	N	1.9	3.4	0.73	1.6	99.9	8.31	0.78	20.1	1320	1.55
	RES-002A 888-891	N	4	4.8	1.2	3.3	99.9	6.25	2.62	31.5	1300	2.73
	RES-002A 927-930	N	1.9	2.3	0.66	1.8	100	6.79	1.71	17.6	1490	2.66
	RES-002A 965-968	N	0.55	2.7	1.3	3	99.9	6.46	0.47	2.5	660	1.59
	RES-002A 992-995	N	1.1	1.8	0.74	1	100	5.63	16.45	41.5	570	1.17
		FD	0.97	2.2	0.78	2.3	100	5.62	16.7	39.4	570	1.21
	RES-002A 1007-1010	N	1.8	2.6	0.53	1.2	100	6.28	8.77	25.3	1040	1.6
	RES-002A 1058-1061	N	1.5	2.6	0.79	1.2	100	6.86	0.55	6.7	730	2.15
	RES-002A 1109-1112	N	1.6	2	0.37	1.3	100	6.38	1.45	10.1	540	1.35
	RES-002A 1154-1156	N	0.5	2.2	0.29	1.2	100	6.44	0.35	3.6	330	1.77
	RES-002A 1201-1203	N	3.5	<4.3	0.86	1.8	99.8	5.38	1.84	73.6	40	0.67
		FD	1.3	4.3	0.61	0.92	99.8	5.48	1.92	77	30	0.74
	RES-002A 1246-1249	N	0.92	2.1	0.31	1	99.9	6.42	1.23	38.3	70	0.8
	RES-002A 1291-1292	N	0.6	0.99	0.13	0.67	99.9	5.89	0.77	41.9	50	0.38
	RES-002A 1325-1328	N	<1.2	2.1	0.4	1.5	99.9	5.86	1.55	18.2	150	1.29
	RES-002A 1363-1366	N	0.05	1.1	0.2	0.52	99.9	6.01	1.03	17.7	70	1.26
	RES-002A 1395-1397	N	0.93	0.96	0.31	0.41	99.8	4.06	1.33	11.8	90	0.53
	RES-002A 1414.6-1417	N	<0.92	2.1	0.33	0.7	100	6.37	0.28	1.9	160	2.93
	RES-002A 1454-1457	N	0.92	4.6	0.37	0.38	99.9	6.12	0.59	5.1	100	2.39
	RES-002A 1538-1541	N	1.2	2.6	0.22	0.53	99.9	6.47	0.07	91	370	2.98
	RES-002A 1583-1586	N	0.49 R1	4.1	0.29 F	1.7 F	100	6.47	0.21	20.4	370	3.6
	RES-002A 1627-1630	N	2.8	3.2	0.59F	0.75 F	99.9	6.7	0.19	12.3	520	4.16
	RES-002A 1732-1735	N	1.4 F	24	0.69 F	1.5 F	99.8	6.9	0.07	0.5	190	3.07
		FD	0.31 F	28	0.3 F	1 F	99.7	7.28	0.07	0.4	200	3.13
	RES-002A 1781-1784	N	1.3	2.9	0.78 F	2.4 F	100	4.71	0.11	1.2	330	2.54
	RES-002A 1814-1817	N	2.6	3.2	0.85 F	1.2 F	100	3.35	0.08	0.6	170	1.9
	RES-002A 1876-1879	N	3.4	19	0.95	6.9	99.7	5.3	0.12	1.1	150	3.83
	RES-002A 1927-1930	N	1.8 F	26	0.93	5.2	99.8	5.96	0.06	<0.2	180	2.42
	RES-002A 1981-1984	N	12	44	0.32 F	2.3 F	99.6	6.76	0.18	0.3	180	3.41

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Bismuth PPM	Cadmium PPM	Calcium %	Cerium PPM	Cesium PPM	Chromium, Total PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM	Iron %	Lanthanum PPM	Lead PPM	Lithium PPM
RES-002A	RES-002A 858-861	N	2.77	0.05	0.06	58.9	2.14	129	0.7	198.5	26.5	0.05	1.4	1.63	28.7	54.6	8.1
	RES-002A 888-891	N	13.55	0.03	0.05	65.7	2.86	225	0.9	73.7	35.9	0.1	1.195	4.24	32.7	190.5	7.4
	RES-002A 927-930	N	8.59	<0.02	0.04	53.6	2.68	124	0.5	100	40.2	0.07	1.435	3.35	26	45.6	4.8
	RES-002A 965-968	N	14.3	0.04	0.06	39	1.49	214	7.8	10000	22.6	0.08	0.409	2.68	18.9	14.5	1.4
	RES-002A 992-995	N	13	<0.02	0.09	59.5	1.04	169	0.5	42.4	26.2	0.13	0.395	3.37	29.6	310	1.5
		FD	13.2	<0.02	0.09	60.9	1.03	197	0.5	38.4	26.4	0.13	0.405	3.39	30.2	313	1.4
	RES-002A 1007-1010	N	14.9	0.03	0.08	36.6	1.36	195	0.8	29.4	24.2	0.1	0.499	3.92	18.4	160	0.8
	RES-002A 1058-1061	N	7.97	<0.02	0.08	57.7	2.63	218	9	1395	33.4	0.11	0.564	2.94	28.3	23	2.6
	RES-002A 1109-1112	N	13.75	<0.02	0.07	37.7	1.21	209	6.6	1645	30.7	0.1	0.593	3.37	18.5	172	8.2
	RES-002A 1154-1156	N	3.55	0.02	0.07	47.7	1.2	15	8.5	2920	26.4	0.13	0.402	3.59	23.2	26.1	1.7
	RES-002A 1201-1203	N	16.95	0.28	0.04	39.4	0.41	298	34.2	4930	65.2	0.26	0.55	15.05	18.1	244	9.2
		FD	18.15	0.25	0.04	38.2	0.42	275	35.5	5140	67.3	0.26	0.558	15.6	17.3	248	9.7
	RES-002A 1246-1249	N	4.69	<0.02	0.06	38.4	0.26	242	15.6	4160	28.8	0.13	0.781	5.82	17.4	297	40
	RES-002A 1291-1292	N	2.59	<0.02	0.04	28.2	0.07	294	18.3	1640	28.4	0.17	0.226	6.04	12.4	429	15.3
	RES-002A 1325-1328	N	5.85	0.05	0.06	46.2	0.39	258	17.5	5970	33.8	0.22	0.445	9.57	18.7	198	15.9
	RES-002A 1363-1366	N	6.66	0.04	0.07	37.6	0.34	255	25.8	4610	25.3	0.17	0.198	6.53	18.1	164	22.3
	RES-002A 1395-1397	N	10.15	0.03	0.03	23.6	0.17	355	18	3240	17.5	0.24	0.205	10.95	11	161	17.9
	RES-002A 1414.6-1417	N	4	<0.02	0.07	39.9	0.62	229	24.5	2290	25.6	0.17	0.204	6.99	19.4	12.3	4
	RES-002A 1454-1457	N	14.05	<0.02	0.06	32.1	0.81	20	34.4	10000	29.9	0.19	0.252	8.22	14.9	9.5	6.4
	RES-002A 1538-1541	N	1.23	1.48	0.05	17.25	0.73	184	17.4	10000	23.4	0.13	1	4.3	8	2.3	3
	RES-002A 1583-1586	N	2.52	0.4	0.03	25.5	0.92	181	21.3	10000	25.8	0.21	0.915	4.48	12.2	1.4	6.7
	RES-002A 1627-1630	N	0.81	1.98	0.04	37.4	0.81	11	11.1	10000	26.2	0.15	0.907	3.04	18.4	2.8	9.9
	RES-002A 1732-1735	N	0.68	0.18	0.42	28.4	6.82	130	45.9	10000	23.6	0.17	0.272	6.71	11.4	3.3	10.3
		FD	0.67	0.18	0.42	34.7	7.14	130	44.9	10000	24.2	0.19	0.271	6.75	14.5	3.4	10.4
	RES-002A 1781-1784	N	1.73	0.89	0.04	34.4	0.74	13	14.2	2050	16.5	0.11	0.082	3.52	15.5	46.8	5.1
	RES-002A 1814-1817	N	0.83	0.06	0.05	23.8	0.49	221	11	1815	11.9	0.1	0.037	2.99	11.2	22.2	3.1
	RES-002A 1876-1879	N	14.9	0.16	2.83	42.6	4.99	9	37.9	10000	23.9	0.2	0.596	8.84	19.1	1.5	11.3
	RES-002A 1927-1930	N	1.25	0.2	3.86	38.1	6.54	149	43	10000	24.7	0.19	0.361	7.38	17.1	1.6	12
	RES-002A 1981-1984	N	0.73	0.13	3.06	33.4	8.63	139	43.2	10000	21.6	0.17	0.314	7.61	14.5	3.1	14.7

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Magnesium %	Molybdenum PPM	Phosphorus, Total (as P) PPM	Potassium %	Rubidium PPM	Sulfide %	Thorium PPM	Tin PPM	Titanium %	Yttrium PPM	Zirconium PPM	Manganese PPM	Nickel PPM	Niobium PPM	Rhenium PPM	Selenium PPM
RES-002A	RES-002A 858-861	N	0.25	2.67	240	5.7	180.5	0.02	3.2	1.3	0.248	7	32	111	3.9	6.1	0.002	2
	RES-002A 888-891	N	0.33	9.38	400	2.73	133.5	0.06	5.4	4.2	0.244	5.5	33.2	134	4.2	6.8	0.002	13
	RES-002A 927-930	N	0.48	7.15	230	3.32	172	0.05	3.4	3.3	0.144	3.3	31.1	92	2.1	4.1	0.002	3
	RES-002A 965-968	N	0.4	3.3	440	2.76	116.5	2.56	3.7	10.3	0.151	4.4	24.9	40	11.4	3.6	0.021	5
	RES-002A 992-995	N	0.24	11.7	850	2.37	98.9	0.51	3.8	56.1	0.147	4.4	43.3	28	2.8	3	0.002	11
		FD	0.24	11.65	860	2.38	98.6	0.5	4	56.9	0.172	4.6	46.5	30	2.6	3.7	0.002	11
	RES-002A 1007-1010	N	0.35	11.4	640	2.99	125.5	0.25	4.2	4.8	0.133	3.4	32.6	38	3.4	3.2	0.003	11
	RES-002A 1058-1061	N	0.45	7.49	870	3.21	141.5	1.7	5.6	6.1	0.145	5.8	28.7	40	9.3	3.8	0.007	9
	RES-002A 1109-1112	N	0.32	4.48	680	2.5	112.5	2.5	4.2	8.5	0.146	4.1	28	29	8.3	3.4	0.003	7
	RES-002A 1154-1156	N	0.4	6.46	540	3.09	115	3.18	3.9	8.7	0.123	4.9	21.9	54	9.5	3.3	0.002	7
	RES-002A 1201-1203	N	0.08	12.6	520	1.45	55.6	10	5.1	7.7	0.077	3.1	23.6	25	16.3	1.6	0.026	18
		FD	0.08	13.1	540	1.48	57.2	10	5.1	7.8	0.07	3.1	22.3	24	16.3	1.5	0.03	19
	RES-002A 1246-1249	N	0.1	19.2	750	0.78	33	6.44	3.7	9.1	0.119	2.9	22.8	23	13.4	2.7	0.029	8
	RES-002A 1291-1292	N	0.01	11.55	470	0.92	5.5	8.04	3.4	11.7	0.118	3.1	18.2	22	13.3	3	0.028	11
	RES-002A 1325-1328	N	0.14	14.65	880	1.43	52	10	3.4	17.1	0.116	4.7	19.5	21	13.1	2.4	0.149	17
	RES-002A 1363-1366	N	0.13	26.4	660	1.37	51	7.37	3.4	13	0.12	4.4	18.8	22	12.9	2.6	0.161	14
	RES-002A 1395-1397	N	0.04	29.1	300	0.58	19.6	10	2.3	11.8	0.075	2.4	13.8	26	11.2	1.7	0.056	18
	RES-002A 1414.6-1417	N	0.31	40.1	680	2.97	121	7.4	3.8	12	0.124	4.5	44.9	42	10.7	2.6	0.048	13
	RES-002A 1454-1457	N	0.32	79.6	730	2.86	119.5	9.07	2.2	22.7	0.148	5.8	20.9	45	18.9	2.7	0.15	20
	RES-002A 1538-1541	N	0.37	311	320	3.27	132	3.94	0.8	18.9	0.109	2.4	7.1	23	5.9	1.2	0.481	16
	RES-002A 1583-1586	N	0.4	518	320	3.36	149	3.74	1.3	24.2	0.114	2.4	8.5	38	10.3	1.8	0.885	22
	RES-002A 1627-1630	N	0.4	808	440	3.15	138	2.67	3.4	18.1	0.102	2	16.2	49	9.5	2.9	1.34	13
	RES-002A 1732-1735	N	2.57	167.5	1730	3.79	171.5	3.07	1.3	6.9	0.453	12.9	15.8	619	62	1.9	0.287	15
		FD	2.62	170	1690	4.2	220	3.03	1.6	6.9	0.45	14.4	18.8	619	61.6	1.9	0.267	16
	RES-002A 1781-1784	N	0.27	225	270	2.22	103	3.44	4.3	12.5	0.089	3.5	15.2	53	9.9	2.7	0.293	10
	RES-002A 1814-1817	N	0.19	307	200	1.58	70.7	2.89	4.3	8.1	0.063	3.9	17.2	46	10.6	1.6	0.345	8
	RES-002A 1876-1879	N	1.77	130	790	3.31	207	8.42	4	20.7	0.336	13.5	32.7	305	65.5	2	0.19	22
	RES-002A 1927-1930	N	2.52	59.3	700	3.02	199.5	5.39	3.5	8	0.517	20.1	30.4	450	61.6	2.2	0.112	18
	RES-002A 1981-1984	N	3.27	202	1160	3.6	240	4.74	1.6	6.2	0.503	15.8	12.4	565	80.4	2.2	0.366	10

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Silver PPM	Sodium %	Strontium PPM	Tantalum PPM	Tellurium PPM	Thallium PPM	Tungsten PPM	Uranium PPM	Vanadium PPM	Zinc PPM
RES-002A	RES-002A 858-861	N	2.53	0.09	349	0.42	3.76	1.66	11.5	0.8	46	99
	RES-002A 888-891	N	3.9	0.03	204	0.54	6.83	0.84	26.9	2.5	48	39
	RES-002A 927-930	N	1.65	0.02	136	0.3	4.91	1.07	34.9	1.6	40	28
	RES-002A 965-968	N	1.46	0.03	154	0.27	4.49	0.85	19.9	1.8	47	11
	RES-002A 992-995	N	6.95	0.03	368	0.2	14.7	0.43	69.3	1.9	57	9
		FD	6.91	0.03	369	0.24	14.65	0.44	75.3	2	58	8
	RES-002A 1007-1010	N	2.84	0.02	213	0.23	8.84	0.67	43.2	2	50	12
	RES-002A 1058-1061	N	1.56	0.03	431	0.3	5.85	0.75	36	2.2	57	14
	RES-002A 1109-1112	N	2.22	0.02	306	0.26	9.56	0.49	116.5	1.8	66	6
	RES-002A 1154-1156	N	0.69	0.02	134	0.22	7.73	0.55	64.1	1.4	56	5
	RES-002A 1201-1203	N	8.68	0.01	395	0.11	15.35	0.22	44.6	4.2	49	50
		FD	8.63	0.01	403	0.1	16.1	0.24	42.8	4.2	49	52
	RES-002A 1246-1249	N	3.77	0.01	452	0.2	3.66	0.12	40.9	1.7	60	9
	RES-002A 1291-1292	N	1.37	0.04	290	0.22	2.34	0.02	37.9	0.9	65	5
	RES-002A 1325-1328	N	2.09	0.01	732	0.19	5.12	0.17	53.2	2.8	65	7
	RES-002A 1363-1366	N	3.41	0.02	321	0.2	8.36	0.14	42.7	1.4	65	8
	RES-002A 1395-1397	N	1.48	0.01	224	0.13	5.08	0.06	24.3	1	43	4
	RES-002A 1414.6-1417	N	0.49	0.03	152.5	0.21	1.09	0.28	39.4	1.7	70	<2
	RES-002A 1454-1457	N	3.71	0.03	460	0.18	5.66	0.34	49.1	1.8	99	5
	RES-002A 1538-1541	N	1.19	0.03	268	0.15	2.63	0.47	26.2	1.3	81	4
	RES-002A 1583-1586	N	2.02	0.04	211	0.22	0.3	0.41	34.9	1.3	72	4
	RES-002A 1627-1630	N	0.93	0.03	327	0.32	0.11	0.36	26.9	3.9	76	14
	RES-002A 1732-1735	N	1.94	0.06	80.1	0.2	0.3	1.03	12	1.2	206	250
		FD	1.97	0.06	82.3	0.18	0.35	1.01	12.8	1.3	203	248
	RES-002A 1781-1784	N	1.06	0.03	147	0.17	0.25	0.26	23.3	1.1	75	42
	RES-002A 1814-1817	N	0.43	0.02	74.5	0.12	0.16	0.18	16.1	1.7	61	<2
	RES-002A 1876-1879	N	4.64	0.05	113.5	0.14	3.12	0.73	16.6	2.9	318	45
	RES-002A 1927-1930	N	1.86	0.61	161.5	0.19	0.4	0.68	7.6	1.2	386	79
	RES-002A 1981-1984	N	2.33	0.22	155	0.17	0.53	1.03	6.2	0.7	193	104

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Arsenic PPM	Barium PPM	Bismuth PPM	Cadmium PPM	Calcium %	Cesium PPM	Cobalt PPM	Copper PPM
RES-005I	RES-005I 1011.88-1012.45	N	2.2	0.79	4.6 R1	99	7.11	4.3	320	1.43	0.7	2.58	2.93	26	439
	RES-005I 1322.73-1323.23	N	1.5	0.54	6.7	99.5	4.45	6.3	170	2.32	2.76	7.86	1.74	15.5	1250
	RES-005I 1353-1353.49	N	3.3	0.39	3.5	99.3	4.57	39	190	3.65	2.46	6.03	3.27	17.6	751
	RES-005I 1360.5-1361.51	N	1.4	0.41	4.7	99.5	5.99	31.9	350	3.39	1.31	3.15	3.29	17.4	814
	RES-005I 1370.93-1374	N	1.9	0.55	1.9	100	4.15	34.8	460	2.51	0.02	0.15	0.71	0.8	272
	RES-005I 1380-1383	N	2.3	0.74	3.4	100	2.54	135	400	26.2	0.02	0.3	0.48	0.7	438
	RES-005I 1389-1391.57	N	2.3	0.42	2.6	100	1.97	57.3	320	28	<0.02	0.16	0.9	0.7	253
	RES-005I 1396.3-1399.3	N	1.5	0.41	0.59	99.9	1.7	116	110	6.18	0.06	0.35	0.56	1.6	1460
	RES-005I 1405-1406.67	N	5.4	0.63	1.1	100	1.6	688	470	107.5	0.07	0.19	0.66	1.6	348
	RES-005I 1410.18-1413.18	N	2.9	0.82	0.95	100	1.2	90	2470	19.45	0.03	0.04	0.29	1.6	573
	RES-005I 1419.18-1422.18	N	1.5	0.57	0.7	100	0.81	210	2100	18.1	0.08	0.08	0.15	2.8	447
	RES-005I 1425.5-1426.51	N	1.2	0.69	0.67	99.9	0.82	205	2150	12.95	0.06	0.08	0.11	1.9	395
	RES-005I 1428.18-1431.18	N	2.2	0.43	1.5	100	0.51	62.7	1370	47.8	0.02	0.05	0.18	2.2	426
	RES-005I 1437.13-1440.13	N	1.6	0.24	0.44	99.9	1.76	43.9	530	24.2	<0.02	0.06	0.27	1.2	377
	RES-005I 1446.13-1449.13	N	1.9	0.17	1.9	99.9	4.23	29.1	730	10.65	<0.02	0.1	0.44	1.9	90.7
	RES-005I 1455.13-1458.13	N	3.1	0.3	2.1	100	5.32	18.5	540	5.47	<0.02	0.06	0.56	0.9	193.5
	RES-005I 1464.13-1467.13	N	2.2	0.4	1.2	99.9	4.91	19.1	450	5.27	<0.02	0.08	0.48	0.5	81.1
	RES-005I 1473.13-1476.13	N	1.7	0.83	1	99.9	3.85	17	1200	2.9	0.03	0.08	0.37	0.7	80.6
	RES-005I 1481-1482.66	N	0.11	0.31	0.48	99.9	2.82	25.2	180	5.85	<0.02	0.06	0.43	1.8	60.4
	RES-005I 1485.5-1486.51	N	0.57	0.22	-0.01	100	2.81	24.7	180	5.8	0.1	0.06	0.42	1.7	61.7
	RES-005I 1487.1-1490.1	N	0.95	0.75 F	1.5 F	99.9	6.22	7.5	3630	2.19	0.02	0.07	0.71	0.6	144
	RES-005I 1490.1-1493.1	N	0.73	0.61 F	1.2 F	99.9	6.15	13.8	820	2.45	0.02	0.07	0.79	0.6	82.1
	RES-005I 1499-1502	N	1.2	0.73 F	0.6 F	99.9	7.03	11.4	500	1.22	<0.02	0.07	0.95	0.5	41.7
	RES-005I 1506.56-1509.47	N	1.9	0.54 F	1.6 F	99.9	6.41	8.6	530	0.86	<0.02	0.13	0.86	0.6	64.4
	RES-005I 1515.47-1518.47	N	1	0.84 F	1.9 F	100	6.69	4.6	580	1.65	<0.02	0.08	0.84	0.6	59.5
	RES-005I 1524.47-1527.47	N	1.5	0.66 F	1.6 F	99.9	6.56	15	750	2.74	0.02	0.03	0.87	0.5	5130
	RES-005I 1532.98-1534.97	N	1	0.41 F	1.6 F	99.9	6.77	5.7	510	2.38	<0.02	0.12	0.77	0.6	887
	RES-005I 1544-1546.55	N	1.4	0.65 F	1.7 F	100	3.48	20.3	470	4.86	<0.02	0.05	0.37	0.5	441
	RES-005I 1552.55-1555.58	N	1.1	0.44 F	0.58 F	99.9	5.24	11.9	350	4.04	<0.02	0.05	0.7	0.9	95.3
	RES-005I 1559.46-1562.46	N	0.92	0.54 F	0.06 F	99.9	5.84	7.5	380	2.96	<0.02	0.04	0.7	1.9	202
	RES-005I 1568.46-1571.46	N	0.99	0.61 F	0.52 F	100	6.21	8.2	380	1.53	0.02	0.04	0.61	1	147
		FD	0.99	0.59 F	1.7 F	99.9	4.78	10.8	370	3.4	<0.02	0.04	0.59	2.5	69.4
	RES-005I 1586.46-1589.46	N	0.67	0.53 F	1.8 F	99.9	6.4	12.9	610	1.89	<0.02	0.04	0.66	1.4	230
	RES-005I 1604.46-1607.46	N	2	0.79 F	0.25 F	100	6.9	6.3	640	1.77	<0.02	0.05	0.74	1.2	37.6
	RES-005I 1613.46-1616.46	N	1.1	0.53 F	2.5 F	100	7.41	15.7	620	1.96	<0.02	0.05	0.73	2.2	40.4
	RES-005I 1616.46-1619	N	1.6	0.75 F	9.6	99.9	7.25	9.5	580	1.54	<0.02	0.05	0.68	1.4	47
	RES-005I 1626.54-1627.16	N	3.1	1.3 F	3.7	100	2.29	84.3	570	9.77	<0.02	0.04	0.61	1.4	158.5
	RES-005I 1627.16-1630	N	1.1	0.41 F	1.9 F	100	7.02	21.4	570	2.09	<0.02	0.03	0.78	2.1	630

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Arsenic PPM	Barium PPM	Bismuth PPM	Cadmium PPM	Calcium %	Cesium PPM	Cobalt PPM	Copper PPM
RES-005I	RES-005I 1630.5-1631.5	N	1.5	1.4	10 R1	99.8	7.2	17.8	580	2.15	<0.02	0.02	0.79	2.1	280
	RES-005I 1632.56-1635.56	N	0.78	1.9	5.8	99.8	7.2	2.4	250	0.79	0.23	0.01	0.76	20	3080
	RES-005I 1638.37-1641	N	1.3	2.3	5.3	99.9	7.82	4.7	250	1.08	0.3	0.02	0.9	26.1	3930
	RES-005I 1645.84-1648.08	N	0.82	1.5	7.7	99.9	7.33	34.9	640	3.77	0.19	0.04	1.02	5.9	1385
	RES-005I 1652-1654.93	N	1.2	1.2	6.9	99.9	7.13	3.2	310	1.36	0.04	0.02	0.81	33.2	2320
	RES-005I 1654.93-1657.3	N	0.43	2.2	5.2	100	5.92	7.4	130	4.42	<0.02	0.06	0.61	29.5	10000
	RES-005I 1677.8-1680.8	N	2.4	1.7	9.7 R1	100	7.89	55.7	370	8.29	<0.02	0.02	1	36.6	10000
	RES-005I 1695.23-1697.23	N	2.1	1.2	6.7	99.8	7.78	98.7	550	1.39	0.39	0.02	0.92	15.4	10000
	RES-005I 1711.23-1713.23	N	1.4	1.5	5.6	100	6.21	15.4	270	2.52	<0.02	<0.01	0.68	28	10000
	RES-005I 1727.23-1729.23	N	2.8	0.9	6.2	99.9	6.88	286	540	1.38	<0.02	0.05	0.78	15	10000
	RES-005I 1730.5-1731.5	N	1.8	1.4	8.3	100	6.71	290	540	1.23	<0.02	0.05	0.76	14.4	10000
	RES-005I 1743.23-1745.23	N	1.3	2.3	5	99.7	6.35	51.1	220	1.5	<0.02	0.01	0.63	16.7	10000
	RES-005I 1759.23-1761.23	N	3	1.1	6.6	99.7	6.45	57.9	210	6.5	0.08	0.01	0.78	14.8	10000
	RES-005I 1775.23-1778.23	N	3.6	0.87	6.9	100	7.11	46.7	320	1.26	<0.02	0.02	0.72	14.8	9560
	RES-005I 1794.36-1796.3	N	2.5	0.42 N1	7	100	6.54	49.8	240	2.12	<0.02	0.02	0.71	11.8	10000
	RES-005I 1811.3-1814.3	N	2.8	1.5	8.2	100	7.34	72.9	270	0.73	1.46	0.01	1.01	20.1	10000
	RES-005I 1830.5-1831.5	N	3.5	1.8	2.2	99.9	6.39	77.1	230	0.66	1.4	<0.01	0.89	17.1	10000
	RES-005I 1835.3-1838.3	N	1.1	0.72	4.5	99.9	6.57	9.4	290	0.47	1.29	0.01	0.95	13.7	7710
	RES-005I 1855.91-1858.91	N	3	0.66	4.2	99.9	7.22	1.8	400	0.49	2.48	0.03	1.07	11.5	5820
	RES-005I 1872.9-1875.38	N	2.4	0.93	3.2	100	6.9	1.3	340	0.56	0.86	0.02	0.87	17.8	8810
	RES-005I 1875.38-1878.2	N	2.4	0.49	3.2	99.8	6.21	3.1	260	1.77	2.46	0.03	0.77	31.2	10000
	RES-005I 1884-1887	N	2.7	0.67	1.5	100	7.15	10	250	3.59	<0.02	0.57	5.6	66.6	10000
	RES-005I 1895-1897.06	N	12	2.4	3.3	99.8	5.46	2.2	400	0.54	2.3	0.05	0.66	42.5	7250
	RES-005I 1901.49-1902.36	N	1.1	0.32	3.7	100	6.66	2.3	180	0.53	0.06	0.11	1.21	46.7	8200
	RES-005I 1917.29-1919.1	N	1.2	0.42	5.8 R1	99.7	7.39	0.8	200	1.03	<0.02	0.36	7.62	53.6	9990
	RES-005I 1923.1-1925.3	N	2.1	0.58	2.9	99.9	7.45	2.9	180	1.91	1.28	0.4	6.61	74.3	10000
	RES-005I 1955.06-195.06	N	3.4	0.26	3.7	99.1	8.17	2.9	110	0.46	<0.02	0.39	12.25	55.1	8610
	RES-005I 1960.5-1961.5	N	0	0.39	3.6	99.3	7.93	<0.2	110	0.5	<0.02	0.4	13.65	66.2	9060
	RES-005I 1979.06-1982.06	N	0.07	0.3	4.2	99.4	7.49	<0.2	110	0.72	<0.02	0.46	15.55	60.6	7560
	RES-005I 2008.11-2011.11	N	0.62	0.57	3.1	99.3	8.75	1.1	180	0.6	<0.02	0.86	10.25	51	10000
	RES-005I 2032.11-2035.11	N	0.24	0.61	2.3	99.8	7.75	1.2	290	5.22	<0.02	0.57	7.96	59.6	10000
	RES-005I 2049.84-2052.84	N	1.9	0.58	4.7	99.9	7.35	0.5	1020	0.61	<0.02	0.14	2.01	11.2	10000
	RES-005I 2061.84-2064.84	N	1.8	0.52	7.5	99.9	6.83	0.8	560	0.87	<0.02	0.11	1.7	16.4	6120

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Gallium PPM	Germanium PPM	Indium PPM	Iron %	Lead PPM	Lithium PPM	Nickel PPM	Potassium %	Selenium PPM	Tantalum PPM	Tin PPM	Titanium %	Zinc PPM	Manganese PPM
RES-005I	RES-005I 1011.88-1012.45	N	18.55	0.17	0.705	6.94	49.9	18.3	60	2.22	2	0.39	2.5	0.55	965	1975
	RES-005I 1322.73-1323.23	N	15.75	0.14	0.705	4.85	139.5	7.2	30.5	1.92	2	0.27	5.2	0.328	679	2380
	RES-005I 1353-1353.49	N	18.15	0.23	1.325	5.56	120	12.4	38.9	2.38	3	0.26	5.9	0.35	872	1910
	RES-005I 1360.5-1361.51	N	24.2	0.23	0.999	5.32	109	12.2	35.9	3.18	3	0.37	9	0.431	690	1350
	RES-005I 1370.93-1374	N	14.9	0.19	0.469	5.02	49.6	1.3	3.1	1.76	11	0.25	11.8	0.163	31	48
	RES-005I 1380-1383	N	17.8	0.28	1.2	10.75	678	1.7	1.6	0.92	21	0.21	13.5	0.155	25	41
	RES-005I 1389-1391.57	N	12.5	0.34	0.286	5.27	196.5	3.3	1.8	0.37	49	0.42	16	0.171	17	49
	RES-005I 1396.3-1399.3	N	20.3	0.41	1.42	17.85	111.5	4.3	4.7	0.23	20	0.26	12.4	0.145	46	45
	RES-005I 1405-1406.67	N	42.8	0.35	1.11	10.4	7270	1	3.1	0.49	25	0.24	14.2	0.178	48	73
	RES-005I 1410.18-1413.18	N	11.65	0.32	0.735	11.35	241	1.5	2.4	0.37	28	0.16	12.9	0.199	31	46
	RES-005I 1419.18-1422.18	N	21.2	0.38	1.495	15.45	490	0.7	5.8	0.24	26	0.17	14.6	0.175	46	54
	RES-005I 1425.5-1426.51	N	14.5	0.25	1.055	15.9	493	0.4	3.9	0.24	18	0.12	10.1	0.18	47	56
	RES-005I 1428.18-1431.18	N	28.3	0.24	2.66	10.9	230	0.8	1.9	0.13	9	0.17	17.4	0.229	23	58
	RES-005I 1437.13-1440.13	N	18.35	0.22	0.345	6.37	141.5	0.8	1.5	0.75	15	0.28	21.7	0.2	19	63
	RES-005I 1446.13-1449.13	N	24.8	0.22	0.297	2.9	415	0.8	5.9	1.87	15	0.28	15.8	0.121	25	27
	RES-005I 1455.13-1458.13	N	31.7	0.24	0.322	3.81	288	0.8	1.7	2.35	17	0.28	15.8	0.127	28	38
	RES-005I 1464.13-1467.13	N	23.6	0.26	0.241	3.67	156	1.2	1.1	2.14	15	0.25	10.4	0.089	18	48
	RES-005I 1473.13-1476.13	N	11.9	0.2	0.111	5.45	14.8	0.7	2.2	1.67	8	0.23	7.7	0.089	19	51
	RES-005I 1481-1482.66	N	12.05	0.22	0.107	6	121	0.8	6	1.22	9	0.27	11.6	0.109	17	34
	RES-005I 1485.5-1486.51	N	11.95	0.21	0.106	5.96	119	0.8	5.7	1.18	9	0.26	11.4	0.104	17	32
	RES-005I 1487.1-1490.1	N	23.1	0.19	0.332	2.81	15.8	0.9	1.5	2.87	4	0.31	7.8	0.112	23	43
	RES-005I 1490.1-1493.1	N	24.4	0.23	0.16	4.33	55.4	0.9	1.5	2.87	6	0.3	8.8	0.105	25	40
	RES-005I 1499-1502	N	25.4	0.21	0.115	2.61	48.3	1.4	1.4	3.27	7	0.35	7.3	0.131	24	38
	RES-005I 1506.56-1509.47	N	21.6	0.23	0.201	2.28	44.1	1.1	1.7	2.97	11	0.39	7.8	0.237	28	37
	RES-005I 1515.47-1518.47	N	24.8	0.2	0.157	1.82	26.1	1	1.6	3.06	7	0.42	7.5	0.129	26	41
	RES-005I 1524.47-1527.47	N	24.4	0.25	0.112	3.2	12.6	1	1.9	2.96	9	0.32	9.2	0.103	21	41
	RES-005I 1532.98-1534.97	N	24	0.18	0.108	1.39	81.8	0.8	1.3	3.21	3	0.42	11.5	0.128	30	43
	RES-005I 1544-1546.55	N	19.6	0.24	0.237	3.1	392	4.9	1.3	1.26	8	0.38	26	0.136	15	49
	RES-005I 1552.55-1555.58	N	23	0.29	0.18	4.71	64.7	2.1	2.2	2.24	8	0.28	16	0.105	26	52
	RES-005I 1559.46-1562.46	N	25.5	0.24	0.134	3.43	41.9	0.9	2.1	2.64	10	0.32	12.5	0.104	31	64
	RES-005I 1568.46-1571.46	N	22.4	0.18	0.118	3.56	20.1	1	3.1	2.84	11	0.27	10.8	0.098	26	61
		FD	26.8	0.1	0.184	4.03	71.9	1.8	7.1	2.16	11	0.22	11.2	0.098	32	22
	RES-005I 1586.46-1589.46	N	26	0.09	0.155	3.78	22.8	1.2	3	2.96	10	0.24	10.3	0.094	35	43
	RES-005I 1604.46-1607.46	N	31.1	0.08	0.194	1.58	60.5	1.1	2	3.24	9	0.32	11.5	0.116	22	41
	RES-005I 1613.46-1616.46	N	32.9	0.09	0.317	2.16	31	1	5.7	3.49	8	0.29	13.1	0.112	22	15
	RES-005I 1616.46-1619	N	34.3	0.08	0.409	1.47	32	0.9	2.2	3.4	7	0.35	12.2	0.113	31	26
	RES-005I 1626.54-1627.16	N	18.8	0.18	1.285	8.86	72.8	1.8	3.5	0.96	24	0.18	10.3	0.089	24	90
	RES-005I 1627.16-1630	N	27.9	0.09	0.268	2.4	7.5	2.9	5.5	3.35	14	0.27	11.6	0.101	21	39

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Gallium PPM	Germanium PPM	Indium PPM	Iron %	Lead PPM	Lithium PPM	Nickel PPM	Potassium %	Selenium PPM	Tantalum PPM	Tin PPM	Titanium %	Zinc PPM	Manganese PPM
RES-005I	RES-005I 1630.5-1631.5	N	28	0.17	0.257	2.68	7.7	3.1	5.5	3.42	13	0.27	12.1	0.104	14	31
	RES-005I 1632.56-1635.56	N	24.7	0.24	0.097	4.85	4.2	3.3	6.3	3.55	18	0.27	10.4	0.091	53	39
	RES-005I 1638.37-1641	N	26.8	0.28	0.115	5.85	4.6	4.3	11.7	3.87	19	0.22	11.6	0.156	61	31
	RES-005I 1645.84-1648.08	N	35.6	0.54	0.518	3.59	48	2.8	3.2	3.46	109	0.28	10.7	0.097	25	49
	RES-005I 1652-1654.93	N	27.2	0.39	0.163	5.83	43.7	2.7	6.2	3.41	53	0.29	10.3	0.098	2	50
	RES-005I 1654.93-1657.3	N	26.9	0.62	0.237	6.4	304	3.2	8.1	2.56	116	0.27	15.1	0.095	7	48
	RES-005I 1677.8-1680.8	N	36.9	0.31	0.409	5.11	73.8	5.4	11.1	3.75	26	0.32	13.1	0.104	28	35
	RES-005I 1695.23-1697.23	N	27.7	0.24	0.148	3.13	4.6	3.4	9.5	3.83	15	0.24	17	0.144	25	30
	RES-005I 1711.23-1713.23	N	20.4	0.26	0.103	5.06	3.6	2.6	6.8	2.96	20	0.24	15.3	0.082	4	60
	RES-005I 1727.23-1729.23	N	22.9	0.21	0.09	3.05	12.5	2.8	9.2	3.26	11	0.26	14.6	0.092	5	24
	RES-005I 1730.5-1731.5	N	22.3	0.2	0.086	2.92	12	2.8	8.9	3.17	11	0.24	14.3	0.087	4	22
	RES-005I 1743.23-1745.23	N	24.4	0.26	0.078	4.21	9.1	4.5	6.8	2.96	22	0.24	19.5	0.096	<2	18
	RES-005I 1759.23-1761.23	N	25.9	0.25	0.223	4.9	4	3	12.8	3.15	17	0.24	16.9	0.087	17	23
	RES-005I 1775.23-1778.23	N	23.7	0.23	0.131	4.23	34.2	6.2	6.6	3.28	13	0.23	15.2	0.087	4	62
	RES-005I 1794.36-1796.3	N	24.4	0.26	0.129	4.96	104.5	10.3	8.3	2.61	17	0.19	18	0.08	2	62
	RES-005I 1811.3-1814.3	N	24.7	0.31	0.228	5.28	2.3	7.8	14.8	3.57	23	0.15	20.9	0.099	6	23
	RES-005I 1830.5-1831.5	N	21.7	0.23	0.196	4.62	2	6.4	12.5	3.08	20	0.12	18.1	0.082	7	19
	RES-005I 1835.3-1838.3	N	22.7	0.22	0.522	4.38	8.3	9.7	10	2.98	15	0.19	14.2	0.09	31	61
	RES-005I 1855.91-1858.91	N	25.6	0.21	0.329	3.37	7.9	12.2	7.4	3.07	9	0.24	14.3	0.103	139	49
	RES-005I 1872.9-1875.38	N	24.4	0.21	0.214	3.97	3	9.2	11.5	3.21	12	0.2	18.9	0.102	444	59
	RES-005I 1875.38-1878.2	N	24.4	0.27	1.41	5.21	76.7	10.3	27.3	2.66	18	0.13	21.2	0.137	3170	29
	RES-005I 1884-1887	N	34.9	0.36	3.34	7.54	19.2	12.7	41.1	3.82	20	0.26	11.8	0.651	142	240
	RES-005I 1895-1897.06	N	21.2	0.23	0.246	3.71	16.3	8.9	36.5	2.49	11	0.22	16.2	0.12	1040	72
	RES-005I 1901.49-1902.36	N	23.2	0.29	0.155	5.96	20.3	13.2	24.2	2.99	17	0.09	16.4	0.127	1140	66
	RES-005I 1917.29-1919.1	N	28.4	0.33	0.225	7.59	4.1	19.5	96.8	4.86	18	0.15	10.8	0.495	283	262
	RES-005I 1923.1-1925.3	N	28.6	0.36	0.56	10.2	91.2	17.9	104.5	4.66	24	0.16	9.6	0.5	930	312
	RES-005I 1955.06-195.06	N	22.1	0.49	0.175	8.5	14.8	29.8	167.5	4.36	9	0.18	5.1	0.513	868	975
	RES-005I 1960.5-1961.5	N	24	0.53	0.215	8.66	11.8	33.6	176.5	4.35	10	0.2	5.9	0.529	901	1000
	RES-005I 1979.06-1982.06	N	24.2	0.45	0.27	8.99	4.3	31.5	194.5	3.82	10	0.19	5.9	0.511	170	906
	RES-005I 2008.11-2011.11	N	24.9	0.28	0.345	7.93	5.6	27.3	104.5	4.61	13	0.23	8.3	0.529	207	746
	RES-005I 2032.11-2035.11	N	31	0.37	0.917	9.19	2.9	22	76.6	5.15	23	0.17	13.1	0.618	182	762
	RES-005I 2049.84-2052.84	N	23.9	0.23	0.167	2.71	18.2	10.7	14.4	4.91	12	0.21	12.8	0.139	126	144
	RES-005I 2061.84-2064.84	N	26.4	0.24	0.207	3.59	7.4	17.1	12.8	4.01	11	0.18	15.6	0.132	215	104

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Molybdenum PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Silver PPM	Sodium %	Strontium PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zirconium PPM
RES-005I	RES-005I 1011.88-1012.45	N	7.46	6.1	830	<0.002	79.2	1.39	0.78	135.5	0.83	0.49	4.2	1.2	134	18.4	56.6
	RES-005I 1322.73-1323.23	N	8.19	4	580	<0.002	78.3	7.26	0.06	57.4	1.2	0.46	3.2	1.6	80	13.6	32.2
	RES-005I 1353-1353.49	N	13.4	4	730	0.002	113	0.68	0.06	58.2	2.52	0.6	3.6	1.5	83	16.2	36.5
	RES-005I 1360.5-1361.51	N	13.6	5.9	830	<0.002	148.5	1.97	0.09	67.5	2.24	0.77	4.2	1.7	99	15.7	58.4
	RES-005I 1370.93-1374	N	24.6	3.6	640	<0.002	66	3.41	0.04	148	10.9	0.27	5	1.5	39	4.1	30.5
	RES-005I 1380-1383	N	32.1	3	1100	<0.002	40.7	7.72	0.03	445	53.9	0.13	5.3	1.7	52	4.3	21.5
	RES-005I 1389-1391.57	N	18.5	5.9	840	<0.002	22	10.3	0.02	316	31.2	0.08	7.9	1.6	19	5.7	41.7
	RES-005I 1396.3-1399.3	N	34.5	3.7	600	<0.002	13.1	6.25	0.02	101	35.5	0.05	5.4	1.5	111	4	23.6
	RES-005I 1405-1406.67	N	51	4	1790	<0.002	28.4	6.76	0.02	362	145.5	0.09	7.7	1.7	60	4.8	24.7
	RES-005I 1410.18-1413.18	N	36.3	2.9	450	<0.002	18.6	9.56	0.02	207	49	0.07	3.4	1.5	27	4	21.1
	RES-005I 1419.18-1422.18	N	53.2	2.9	1040	0.002	11.4	5.49	0.03	283	69.3	0.04	2.7	1.7	74	4.6	23.4
	RES-005I 1425.5-1426.51	N	38	2.1	1080	<0.002	7.8	3.81	0.03	287	48.4	0.03	1.9	1.2	76	3.2	16.9
	RES-005I 1428.18-1431.18	N	26.6	3.3	560	<0.002	6.6	2.8	0.02	346	159	0.03	3.4	1.4	36	4.4	27.6
	RES-005I 1437.13-1440.13	N	21.5	4.3	550	<0.002	36.5	2.08	0.02	217	51.2	0.09	4.5	1.2	27	3.4	27.4
	RES-005I 1446.13-1449.13	N	21.7	3.4	890	<0.002	75	3.96	0.03	333	12.2	0.2	5.2	0.8	31	2.9	19.2
	RES-005I 1455.13-1458.13	N	26.7	3.5	680	<0.002	92	2.46	0.04	281	6.53	0.26	4.6	0.9	47	3.7	23.7
	RES-005I 1464.13-1467.13	N	22.1	3	620	<0.002	83	12.65	0.04	306	2.49	0.26	4.7	0.8	36	2.8	18.2
	RES-005I 1473.13-1476.13	N	70.5	2.9	270	<0.002	62.9	2.79	0.04	42.6	2.86	0.21	3.7	0.9	35	2.2	18.5
	RES-005I 1481-1482.66	N	35.5	3.3	460	<0.002	59.6	3.48	0.03	115	4.18	0.17	4.5	0.8	23	2.2	18.1
	RES-005I 1485.5-1486.51	N	35.1	3.1	440	<0.002	58.7	5.04	0.03	113.5	4.08	0.17	4.5	0.8	22	2.1	17.6
	RES-005I 1487.1-1490.1	N	29.6	3.8	410	<0.002	120	3.44	0.06	52.9	1.28	0.41	4.4	1.1	35	3.3	17.4
	RES-005I 1490.1-1493.1	N	51	3.4	430	<0.002	121	2.35	0.05	84.1	1.9	0.4	4.5	1.1	38	3	19.8
	RES-005I 1499-1502	N	19.1	4.4	510	<0.002	138.5	1.84	0.05	120	0.61	0.5	4.4	1.1	47	3.3	29.6
	RES-005I 1506.56-1509.47	N	18.4	5.8	800	<0.002	122.5	2.8	0.05	111.5	2.77	0.42	6	1.2	91	4.4	33.1
	RES-005I 1515.47-1518.47	N	14.5	5.3	440	<0.002	130.5	1.43	0.05	96.1	0.88	0.43	4.8	0.9	37	3.1	16.1
	RES-005I 1524.47-1527.47	N	33	3.9	290	0.002	126.5	3.91	0.05	56.6	1.38	0.4	4	0.8	37	2.2	12.7
	RES-005I 1532.98-1534.97	N	9.26	5.3	380	<0.002	132	3.94	0.06	116	0.67	0.39	4	0.8	38	2.4	15.8
	RES-005I 1544-1546.55	N	23.7	5	710	<0.002	60.7	22.8	0.03	611	2.28	0.16	6.2	1	31	1.9	15.8
	RES-005I 1552.55-1555.58	N	34.1	3.9	450	<0.002	98.7	4.02	0.05	184	1.22	0.3	5	0.8	41	2.3	13.4
	RES-005I 1559.46-1562.46	N	32.2	4.2	330	<0.002	111	2.1	0.05	117.5	1.37	0.31	3.9	0.8	44	2.4	14.7
	RES-005I 1568.46-1571.46	N	33.3	3.3	390	<0.002	112.5	1.29	0.05	85.6	0.75	0.3	3.8	0.8	40	2.2	14.8
		FD	34.5	2.5	400	0.002	86.7	1.84	0.04	180	1.16	0.27	4.9	0.8	50	1.9	14.1
	RES-005I 1586.46-1589.46	N	25.1	2.8	390	0.002	118	6.77	0.05	110	1.43	0.35	3.8	0.8	51	2.6	15.5
	RES-005I 1604.46-1607.46	N	13.8	3.9	530	<0.002	128.5	7.53	0.06	210	1.11	0.36	4.5	0.8	55	2.8	15.1
	RES-005I 1613.46-1616.46	N	29.5	3.3	590	0.002	137.5	1.59	0.06	186.5	2.01	0.37	4.5	1	60	2.7	15.6
	RES-005I 1616.46-1619	N	14.25	4	630	<0.002	127.5	0.91	0.05	287	9.54	0.35	4.9	1	60	3.1	14.5
	RES-005I 1626.54-1627.16	N	144.5	2.6	630	0.003	37.6	3.2	0.02	327	45.5	0.15	5.3	1.5	63	2.6	20.3
	RES-005I 1627.16-1630	N	30.6	3.1	380	0.002	130.5	0.61	0.06	112	1.76	0.38	3.5	0.7	60	2.1	14.8

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Molybdenum PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Silver PPM	Sodium %	Strontium PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zirconium PPM
RES-005I	RES-005I 1630.5-1631.5	N	36	3.2	390	<0.002	122.5	0.49	0.05	117.5	1.87	0.39	3.7	0.8	60	2.2	15.6
	RES-005I 1632.56-1635.56	N	28.2	3.4	300	0.053	122.5	0.91	0.04	131.5	0.56	0.35	3.8	1.1	43	3.5	17
	RES-005I 1638.37-1641	N	65.6	3	390	0.101	133	2.74	0.04	237	0.47	0.41	5.4	1.7	74	5.6	53.2
	RES-005I 1645.84-1648.08	N	32.1	3.6	470	0.121	128.5	33.6	0.04	238	4.07	0.45	4.6	1	64	2.7	14.7
	RES-005I 1652-1654.93	N	60.4	3.8	370	0.163	122	1.67	0.03	99.5	0.63	0.4	4.2	1.2	50	3	16.1
	RES-005I 1654.93-1657.3	N	223	3.6	680	0.764	91.4	7.72	0.02	475	1.07	0.31	5.7	2.1	53	2.4	17.1
	RES-005I 1677.8-1680.8	N	414	3.6	520	0.734	146.5	1.43	0.04	205	1.91	0.48	4	1.6	96	3.5	18.8
	RES-005I 1695.23-1697.23	N	166	3.5	520	0.949	130	1.86	0.04	194.5	5.37	0.41	4.8	2	84	4	51.5
	RES-005I 1711.23-1713.23	N	160.5	3	240	0.473	103.5	1	0.03	119	0.97	0.33	2.8	1	64	2.2	12.8
	RES-005I 1727.23-1729.23	N	133.5	3	380	0.336	112	0.99	0.04	110.5	1.47	0.33	3.9	1.4	65	2.8	15.3
	RES-005I 1730.5-1731.5	N	133	2.9	370	0.322	110	0.95	0.04	106.5	1.42	0.33	3.7	1.4	63	2.7	14.8
	RES-005I 1743.23-1745.23	N	318	3.1	360	0.632	104.5	1.81	0.03	124	0.63	0.49	3	1.2	82	1.2	11.4
	RES-005I 1759.23-1761.23	N	81.7	2.8	350	1.3	110.5	0.67	0.03	112	2.72	0.66	3	1.4	55	4.3	15.5
	RES-005I 1775.23-1778.23	N	327	2.8	430	0.884	110	0.68	0.03	193	1.02	0.55	3.6	1.7	65	2.5	15.8
	RES-005I 1794.36-1796.3	N	273	2.5	460	1.105	93.2	0.94	0.03	158.5	0.71	0.35	3.8	1.5	62	4	14.7
	RES-005I 1811.3-1814.3	N	259	1.9	370	1.715	123.5	1.16	0.05	284	2.47	0.78	3.8	2.5	77	2.3	26.8
	RES-005I 1830.5-1831.5	N	221	1.5	310	1.47	106.5	1.01	0.04	246	2.08	0.61	3.2	2	66	1.9	21.9
	RES-005I 1835.3-1838.3	N	217	2.4	330	0.431	107.5	0.74	0.05	214	2.62	0.34	3.6	1.9	63	2.7	27.5
	RES-005I 1855.91-1858.91	N	183.5	2.9	480	0.381	113	0.72	0.05	296	0.28	0.32	4.2	2.9	57	3.8	29.7
	RES-005I 1872.9-1875.38	N	186.5	2.4	490	0.246	117	0.85	0.04	219	0.33	0.32	4.1	2.3	72	4.7	31.8
	RES-005I 1875.38-1878.2	N	301	1.7	570	0.444	98.5	1.94	0.03	370	0.45	0.31	3.9	3.2	112	7.7	31
	RES-005I 1884-1887	N	406	3.2	2710	0.749	191.5	2.9	0.04	150.5	0.94	1.05	1.5	3.3	269	33.9	23.1
	RES-005I 1895-1897.06	N	298	3.1	220	0.413	88.9	0.97	0.04	69.2	0.3	0.36	8.6	12.2	66	9.2	27.3
	RES-005I 1901.49-1902.36	N	217	1.4	600	0.392	105.5	0.96	0.04	67.9	0.31	0.36	2.2	1	104	4.8	19.7
	RES-005I 1917.29-1919.1	N	357	1.7	1660	0.58	152	2.09	0.06	52.9	2.18	1.19	0.4	1.4	228	19.5	19
	RES-005I 1923.1-1925.3	N	204	1.9	1980	0.393	131.5	2.86	0.06	99.6	1.09	1.24	0.5	1.6	230	17.9	19.3
	RES-005I 1955.06-195.06	N	668	1.9	1390	1.395	324	1.6	0.03	44.3	0.4	1.38	0.8	0.9	190	13.2	29.8
	RES-005I 1960.5-1961.5	N	713	2	1460	1.655	369	1.93	0.03	48.7	0.55	1.5	0.9	1	196	15.4	18.5
	RES-005I 1979.06-1982.06	N	534	2.4	1210	1.11	388	1.52	0.04	49.3	0.52	1.58	0.6	1.2	159	12	26.4
	RES-005I 2008.11-2011.11	N	208	2.8	1700	0.408	118	2.83	0.04	65	0.43	1.45	0.3	0.9	194	11.2	13.5
	RES-005I 2032.11-2035.11	N	396	2.1	2020	0.833	136.5	4.81	0.07	45.6	1.01	1.42	0.5	1.8	268	16.2	12.9
	RES-005I 2049.84-2052.84	N	270	2.6	780	0.498	115	1.43	0.15	138	0.2	0.9	3.6	1	74	7.6	12
	RES-005I 2061.84-2064.84	N	493	2.4	590	0.802	145.5	0.74	0.06	47.9	0.24	0.56	3.1	0.9	87	6.4	15.9

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Arsenic PPM	Barium PPM	Bismuth PPM	Cadmium PPM	Calcium %	Cesium PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM
RES-005J	RES-005J 1660.4-1668.47	N	2.3	0.47	11	99.8	6.47	162	230	4.37	0.65	0.01	0.74	32.3	10000	24.9	0.25

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Indium PPM	Iron %	Lead PPM	Lithium PPM	Nickel PPM	Potassium %	Selenium PPM	Tantalum PPM	Tin PPM	Titanium %	Zinc PPM	Manganese PPM
RES-005J	RES-005J 1660.4-1668.47	N	0.157	4.83	2.2	3.7	12.7	3.15	19	0.31	15.7	0.097	59	39

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Molybdenum PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Silver PPM	Sodium %	Strontium PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zirconium PPM
RES-005J	RES-005J 1660.4-1668.47	N	170.5	3.4	310	1	112	1.56	0.04	150.5	1.05	0.49	3.7	1.5	63	2.8	15

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIS D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Temperature pH taken at DEG C	ALS Aluminum %	Arsenic PPM	Barium PPM	Bismuth PPM	Cadmium PPM	Calcium %	Cesium PPM
RES-006D	RES-006D 1247.48-1250.48	N	<2.5	0.36	5.1	21.4	8.84	3.4	330	6.54	1.95	2.63	1.53
	RES-006D 1405.47-1408.44	N	0.47	0.36	5	21.4	8.16	3.2	560	6.73	0.06	0.7	2.35
	RES-006D 1450.44-1453.44	N	3.4	0.93	7.3	21.4	7.11	7.9	130	19.15	0.07	1.21	2.17
	RES-006D 1495.44-1498.44	N	2.6	0.54	5.6	21.4	6.48	3.2	220	31.4	2.58	0.71	2.41
	RES-006D 1532.81-1535.81	N	2	0.87	6.2	21.4	7.48	1.5	270	9.07	0.02	0.43	1.87
	RES-006D 1577.43-1580.43	N	0.41	0.61	7.9	21.4	8.28	1.2	580	7.28	0.03	0.83	4.91
	RES-006D 1600.5-1601.5	N	3.4	0.44	14	21.4	8.76	1	590	8.3	0.06	0.86	5.13
	RES-006D 1622.43-1625.43	N	1.7	0.46	5	21.4	7.66	0.9	210	5.29	<0.02	0.24	4.31
	RES-006D 1667.43-1670.43	N	2	0.49	5.8	21.4	8.05	1	310	2.08	<0.02	0.23	2.46
	RES-006D 1705.4-1708.4	N	1.4	0.25	7.4	21.4	6.68	1.4	130	4.98	<0.02	0.14	1.26
	RES-006D 1750.4-1753.4	N	<1.4	1.1	9.3	21.4	7.3	3.2	80	0.84	<0.02	0.16	0.89
	RES-006D 1798.4-1801.4	N	2.5	0.89	7.8	21.4	6.49	1.9	110	0.73	<0.02	0.16	1.09
	RES-006D 1843.4-1846.4	N	2.1	1	7.6	21.4	6.76	5.4	100	1.18	<0.02	0.11	0.59
	RES-006D 1898.21-1901.09	N	4.2	1.8	6.6	21.4	5.91	1.1	140	0.69	<0.02	0.18	0.56
	RES-006D 1927.23-1930.23	N	2.6	0.71	7.7	21.4	5.67	31.1	170	32	3.9	0.09	0.25
		FD	2.5	1	7.6	21.4	5.55	31.6	170	32.3	3.98	0.09	0.25
	RES-006D 1952.56-1954.83	N	0.82	1	6.3	21.4	1.33	3.7	40	1.88	<0.02	0.03	0.13
	RES-006D 1954.83-1972	N	1.5	0.36	9.8	23	5.2	18.5	160	20.6	<0.02	0.07	0.5
	RES-006D 1980.6-1983.6	N	2.7	0.69	24	21.4	3.96	3.6	90	2.28	3.53	0.11	0.46
	RES-006D 1995.6-1998.6	N	7.9	1.5	12	21.4	3.97	0.8	110	8	<0.02	0.28	0.47
	RES-006D 2022.66-2025.66	N	1.1	0.33	16	21.4	6.24	<0.2	120	4.01	<0.02	0.22	0.82
	RES-006D 2040.66-2043.66	N	1.9	0.59	11	21.4	7.77	1.4	170	1.36	<0.02	0.28	2.35
	RES-006D 2058.16-2061.16	N	<2.3	0.39	8.8	21.4	7.29	1.3	150	0.9	<0.02	0.66	5.91
	RES-006D 2073.13-2076.13	N	<2.1	0.31	8.8	21.4	6.17	2	160	1.38	0.5	0.47	4.93
		FD	1.5	0.25	12	21.4	6.04	1.6	150	1.47	0.46	0.46	4.77
	RES-006D 2091.13-2094.13	N	1.6	0.37	13	21.4	8.4	0.7	250	0.42	<0.02	0.56	8.04
	RES-006D 2115.47-2118.47	N	2.4	0.49	11	21.4	5.06	<0.2	150	37.5	0.26	0.22	0.6
	RES-006D 2125.45-2128.42	N	1.7	0.58	8.7	21.4	5.54	<0.2	310	5.56	<0.02	0.11	0.56
	RES-006D 2137.08-2138.5	N	6.6	0.6	13	21.4	5.81	5.1	110	34.4	<0.02	0.45	0.12

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIS D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM	Iron %	Lead PPM	Lithium PPM	Nickel PPM	Potassium %	Selenium PPM	Tantalum PPM	Tin PPM	Titanium %	Zinc PPM	Manganese PPM
RES-006D	RES-006D 1247.48-1250.48	N	23.7	611	24.6	0.19	0.701	6.33	25.8	14.2	7	2.65	3	0.29	2.3	0.522	1270	2080
	RES-006D 1405.47-1408.44	N	10.8	805	23.1	0.21	1.42	5.16	14.5	6.2	5.3	5.26	3	0.49	4.5	0.41	273	1120
	RES-006D 1450.44-1453.44	N	30.8	4650	34.6	0.28	2.12	9.96	12.5	10.7	15.1	3.28	6	0.3	11.1	0.391	1225	1340
	RES-006D 1495.44-1498.44	N	26.4	6850	28.8	0.25	5.03	9.69	25.2	11.8	10.1	3.19	4	0.33	10.4	0.42	2300	1635
	RES-006D 1532.81-1535.81	N	13.4	2950	27	0.24	1.245	7.63	6.7	5.3	4	3.9	5	0.31	12.2	0.424	690	486
	RES-006D 1577.43-1580.43	N	16.8	3390	29.6	0.22	1.065	6.49	6.6	22.2	17.8	4.25	4	0.47	9.5	0.503	761	1160
	RES-006D 1600.5-1601.5	N	16.7	3420	29.3	0.22	1.085	6.64	6.8	22	17.6	4.3	4	0.49	9.9	0.518	763	1175
	RES-006D 1622.43-1625.43	N	16.4	3420	27.3	0.23	0.606	7.42	4.1	10.6	16.3	3.89	6	0.24	12.7	0.283	641	393
	RES-006D 1667.43-1670.43	N	16	1150	27.3	0.21	0.131	5.84	2.2	2.5	8.9	4.2	8	0.15	15.2	0.198	586	43
	RES-006D 1705.4-1708.4	N	23.8	1930	21.2	0.32	0.157	11.25	2	2.6	15.5	3.11	19	0.18	14.4	0.201	274	41
	RES-006D 1750.4-1753.4	N	28.4	441	19.9	0.32	0.091	10.7	3	2.4	10.5	3.37	21	0.15	7.8	0.182	426	27
	RES-006D 1798.4-1801.4	N	27.6	1210	20.2	0.31	0.053	9.8	2.3	2.8	12.9	3.16	24	0.16	11.6	0.194	378	30
	RES-006D 1843.4-1846.4	N	155	665	20.5	0.32	0.081	10.25	8.8	2.8	23	3.09	24	0.31	11.8	0.184	328	26
	RES-006D 1898.21-1901.09	N	55.4	2020	14.8	0.27	0.368	6.07	24.7	10	15.6	2.17	20	0.32	11.6	0.151	7	48
	RES-006D 1927.23-1930.23	N	27.9	8570	27.8	0.21	0.895	5.24	303	19	14.1	1.14	16	0.16	16.3	0.079	9	24
		FD	27.3	8610	27.7	0.21	0.887	5.13	305	19.1	12.9	1.13	16	0.16	16.4	0.078	10	21
	RES-006D 1952.56-1954.83	N	10.6	566	4.81	0.11	0.191	2.37	128.5	1.6	3.6	0.52	9	0.1	5.4	0.039	<2	58
	RES-006D 1954.83-1972	N	21	6170	25.4	0.22	0.57	4.35	284	8.8	14.3	2.05	13	0.33	18.6	0.144	7	46
	RES-006D 1980.6-1983.6	N	80.5	4190	18.75	0.35	1.06	12.15	271	4.5	30.5	1.61	31	0.12	13.6	0.082	345	75
	RES-006D 1995.6-1998.6	N	86.5	10000	21.4	0.48	4.36	10.35	322	5.6	35.3	1.22	39	0.14	22.5	0.082	443	82
	RES-006D 2022.66-2025.66	N	80.6	10000	20.8	0.96	0.755	9.05	60	6.1	83.4	2.79	49	<0.05	65.3	0.142	213	70
	RES-006D 2040.66-2043.66	N	55.1	10000	21.6	0.36	0.903	6.42	92.1	6.8	46.5	3.76	27	0.1	21.7	0.261	374	148
	RES-006D 2058.16-2061.16	N	46.7	10000	23.4	0.27	0.308	6.97	7.6	22.2	67.5	4.01	22	0.16	14.1	0.48	96	289
	RES-006D 2073.13-2076.13	N	43.8	10000	22.5	0.33	0.755	8.45	19.6	11.9	64.5	4.04	38	0.12	21.4	0.382	394	410
		FD	42.2	10000	22.3	0.32	0.759	8.15	20	11.6	63.6	3.99	37	0.12	21.2	0.362	379	396
	RES-006D 2091.13-2094.13	N	30.5	10000	24.7	0.26	0.467	5.67	17.7	26.6	61.6	4.94	20	0.14	15.5	0.463	151	489
	RES-006D 2115.47-2118.47	N	12.4	8870	15.7	0.43	0.639	4.46	147	6.5	19.1	2.19	21	0.16	22.9	0.089	26	67
	RES-006D 2125.45-2128.42	N	18.9	6140	18	0.38	0.282	3.55	154	5.9	15.7	2.62	14	0.22	23.1	0.112	30	53
	RES-006D 2137.08-2138.5	N	35	6620	36.7	0.35	0.462	9.49	2350	36.1	19.3	0.51	19	0.19	40.9	0.089	6	35

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIS D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Molybdenum PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Silver PPM	Sodium %	Strontium PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zirconium PPM
RES-006D	RES-006D 1247.48-1250.48	N	2.72	4.5	740	0.003	122.5	1.15	2.03	364	2.18	1.09	1.7	0.8	175	19.4	23.4
	RES-006D 1405.47-1408.44	N	4.21	8.1	1440	0.012	171.5	0.72	0.05	110	3.97	1.46	3.7	1.2	81	18.2	20.2
	RES-006D 1450.44-1453.44	N	2.66	5.2	1430	0.002	122.5	2.95	0.11	81	15.9	0.98	2.4	3.8	125	18	38.5
	RES-006D 1495.44-1498.44	N	1.46	5.8	1180	0.002	115	4.83	0.03	81.7	20.9	0.97	2.3	3.1	90	18.5	66.8
	RES-006D 1532.81-1535.81	N	2.41	6	1540	<0.002	138	1.18	0.02	33	5.44	0.92	1.7	3	103	16.4	19.7
	RES-006D 1577.43-1580.43	N	1.32	7.8	1210	0.002	173.5	1.45	0.05	94.7	3.87	1.54	2.8	2.3	111	20.9	25.2
	RES-006D 1600.5-1601.5	N	1.18	8.2	1250	0.002	208	1.67	0.05	96.4	4.46	1.61	3.4	2.5	110	23	26.6
	RES-006D 1622.43-1625.43	N	15.9	3.8	1020	0.017	153	1.16	0.04	43.5	2.72	1.09	1.8	2.6	129	13.7	16.1
	RES-006D 1667.43-1670.43	N	31.9	2.4	1010	0.044	170.5	0.19	0.03	57	1.32	0.73	2.1	2.4	98	15.5	11.7
	RES-006D 1705.4-1708.4	N	41.7	2.4	440	0.067	116.5	0.39	0.03	26.6	2.86	0.52	1.8	2.3	119	14	20.2
	RES-006D 1750.4-1753.4	N	55.3	2.3	730	0.082	114	0.1	0.04	210	0.9	0.52	1.9	1.2	66	15.3	21.1
	RES-006D 1798.4-1801.4	N	90.5	2.3	470	0.118	121	0.15	0.04	54	0.8	0.46	3.5	2.1	113	19.6	34.2
	RES-006D 1843.4-1846.4	N	334	4.1	800	0.446	107	0.28	0.04	113.5	0.7	0.38	4	1.6	108	8.2	28.7
	RES-006D 1898.21-1901.09	N	393	4.9	510	0.551	79.2	0.32	0.03	274	0.63	0.25	10.6	3	103	9.5	33.9
	RES-006D 1927.23-1930.23	N	175	2	660	0.364	43	6.82	0.02	699	1.33	0.13	2.6	2.8	88	2.1	5.4
		FD	173.5	2.1	650	0.381	42.3	6.64	0.02	704	1.34	0.12	2.5	2.9	87	2.1	5.1
	RES-006D 1952.56-1954.83	N	277	1.9	180	0.562	20.9	0.73	0.01	95.2	0.26	0.05	1.4	0.6	45	1.7	7.6
	RES-006D 1954.83-1972	N	347	3.7	500	0.63	76.7	2.81	0.01	271	0.98	0.17	3.9	1.6	118	5.1	27.3
	RES-006D 1980.6-1983.6	N	440	2.6	610	0.872	65.1	1.32	0.02	138.5	0.76	0.21	4.5	2.5	122	6.9	13.7
	RES-006D 1995.6-1998.6	N	1530	2.9	980	3.4	57.7	4.97	0.02	179.5	3.14	0.24	4.1	5.6	107	9.2	15.3
	RES-006D 2022.66-2025.66	N	5980	2.2	1130	11.75	135	3.03	0.04	301	1.92	0.44	0.5	1.2	167	11.6	7
	RES-006D 2040.66-2043.66	N	661	1.6	1220	1.22	181	2.29	0.07	154.5	0.31	0.59	0.5	1.9	202	46.6	27.7
	RES-006D 2058.16-2061.16	N	101.5	2.2	1700	0.267	163.5	2.83	0.08	31.7	1.54	1.1	0.5	0.6	211	11	11.5
	RES-006D 2073.13-2076.13	N	120.5	1.5	1540	0.24	134	2.95	0.08	20.5	0.32	0.96	0.4	0.8	204	11	10.7
		FD	132	1.3	1520	0.265	128	2.88	0.08	20.2	0.3	0.95	0.4	0.8	201	10.4	10.1
	RES-006D 2091.13-2094.13	N	417	1.8	1730	1.235	292	2.59	0.08	59.2	0.33	1.23	0.6	0.7	204	12.3	12.9
	RES-006D 2115.47-2118.47	N	595	2.1	310	1.08	87.7	7.69	0.05	84.6	1.39	0.25	8.4	1.5	98	8.4	18
	RES-006D 2125.45-2128.42	N	556	3.3	400	0.849	101	3.38	0.04	93.1	0.62	0.28	9.1	1.7	101	9.4	18
	RES-006D 2137.08-2138.5	N	361	3.1	2080	0.569	18.1	5.36	0.02	1820	6.83	0.06	10.3	3.2	104	7.9	24.6

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
PCI/G	picocuries per gram.
PPM	parts per million.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Iron MG/L	Lead MG/L	Magnesium MG/L	Manganese MG/L
RES-009	RES-009 7.43-7.96	N	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 199.18-199.78	N	6.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 199.78-200.3	N	7.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		FD	--	<0.8 D3	0.0006 F	0.0009 F	<0.08 D3	<0.05 D3	0.06 FD3	<0.0005	3 FD3	<0.3 D3	<0.3 D3	<0.3 D3	<0.3 D3	0.001	<5 D3	0.55 D3
	RES-009 281.14-281.64	N	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 348.3-348.83	N	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 447.23-447.8	N	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 485.12-485.71	N	0.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 557.06-557.56	N	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 647.52-648.1	N	5.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 718-718.58	N	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 810.42-810.98	N	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 906.08-906.58	N	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 987.9-988.45	N	2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 994.67-997.67	N	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 1012.16-1014.16	N	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 1027.38-1030.3	N	5.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 1045.3-1048.3	N	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 105.16-105.73	N	5.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 1063.3-1066.3	N	4.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 1081.3-1084.3	N	3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 1098.34-1100.96	N	5.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Molybdenum MG/L	Potassium MG/L	Radium 226 with alpha emitting PCI/G	Selenium MG/L	Silica MG/L	Sodium MG/L	Solids, Percent %	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L	Calcium %	Magnesium %	Potassium %	Sodium %
RES-009	RES-009 7.43-7.96	N	--	--	1.7	--	--	--	99.5	--	--	--	--	1.41	0.31	3.07	2.57
	RES-009 199.18-199.78	N	--	--	2.2	--	--	--	99.4	--	--	--	--	1.59	0.48	2.76	2.66
	RES-009 199.78-200.3	N	--	--	2.7	--	--	--	99.3	--	--	--	--	1.61	0.5	2.78	2.68
		FD	<0.3 D3	3 D3	--	<0.005	16 D3	7 FD3	--	<0.0005	0.0014	<0.1 D3	0.06 FD3	--	--	--	--
	RES-009 281.14-281.64	N	--	--	1.7	--	--	--	98.9	--	--	--	--	1.62	0.53	2.76	2.48
	RES-009 348.3-348.83	N	--	--	2.2	--	--	--	99.8	--	--	--	--	1.7	0.42	2.9	2.96
	RES-009 447.23-447.8	N	--	--	2	--	--	--	98.7	--	--	--	--	3.91	1.71	2.38	1.63
	RES-009 485.12-485.71	N	--	--	2.4	--	--	--	99.3	--	--	--	--	7.23	1.72	1.92	1.34
	RES-009 557.06-557.56	N	--	--	3.5	--	--	--	97.1	--	--	--	--	0.87	1.48	3.73	0.59
	RES-009 647.52-648.1	N	--	--	2.6	--	--	--	98.5	--	--	--	--	3.4	2.22	2.03	1.24
	RES-009 718-718.58	N	--	--	3	--	--	--	99.7	--	--	--	--	0.27	0.33	3.27	0.11
	RES-009 810.42-810.98	N	--	--	1.7	--	--	--	98.5	--	--	--	--	4.93	3.23	1.56	0.9
	RES-009 906.08-906.58	N	--	--	1.9	--	--	--	98.8	--	--	--	--	4.69	2.51	2.14	0.73
	RES-009 987.9-988.45	N	--	--	1.4	--	--	--	99.3	--	--	--	--	0.6	0.84	1.9	0.1
	RES-009 994.67-997.67	N	--	--	3.1	--	--	--	99.1	--	--	--	--	0.32	0.44	5.3	0.11
	RES-009 1012.16-1014.16	N	--	--	2.2	--	--	--	99.2	--	--	--	--	0.31	0.41	5.05	0.37
	RES-009 1027.38-1030.3	N	--	--	1.7	--	--	--	99.2	--	--	--	--	0.85	0.35	3.83	1.66
	RES-009 1045.3-1048.3	N	--	--	1.8	--	--	--	99.6	--	--	--	--	0.29	0.47	3.96	2.12
	RES-009 105.16-105.73	N	--	--	1.1	--	--	--	99.4	--	--	--	--	1.61	0.49	2.85	2.7
	RES-009 1063.3-1066.3	N	--	--	2	--	--	--	99.2	--	--	--	--	0.37	0.49	4.51	1.86
	RES-009 1081.3-1084.3	N	--	--	2.3	--	--	--	99.2	--	--	--	--	0.33	0.44	4.28	1.97
	RES-009 1098.34-1100.96	N	--	--	1.5	--	--	--	99	--	--	--	--	0.38	0.61	4.8	1.51

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Sulfide %	Titanium %	Antimony PPM	Arsenic PPM	Barium PPM	Beryllium PPM	Bismuth PPM	Cadmium PPM	Cerium PPM	Cesium PPM	Chromium, Total PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM
RES-009	RES-009 7.43-7.96	N	0.02	0.238	0.28	1	1080	3.08	0.04	0.05	99.4	4.12	145	4.7	24.2	20.2	0.2	0.058
	RES-009 199.18-199.78	N	<0.01	0.259	0.23	1.4	990	2.44	0.08	0.11	103.5	3.52	133	4.6	8.6	20.1	0.15	0.051
	RES-009 199.78-200.3	N	<0.01	0.266	0.23	1.1	1000	2.51	0.08	0.12	102.5	3.6	140	4.7	9.2	20.4	0.15	0.05
		FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 281.14-281.64	N	<0.01	0.238	0.23	1.2	990	2.57	0.09	0.06	102	4.09	139	5	8.5	20.6	0.15	0.051
	RES-009 348.3-348.83	N	<0.01	0.263	0.25	1.6	1040	2.62	0.1	0.06	100	2.95	247	5.2	9.8	20.9	0.16	0.051
	RES-009 447.23-447.8	N	<0.01	0.499	0.91	7.3	710	1.72	0.27	0.22	67.5	11.25	165	22.4	63.8	18.55	0.17	0.095
	RES-009 485.12-485.71	N	0.01	0.508	0.96	8.8	430	1.23	0.31	0.37	46.7	4.05	181	22.6	108.5	15.65	0.16	0.163
	RES-009 557.06-557.56	N	0.02	0.242	1.66	26.5	700	4.69	1.89	0.19	81.8	14.5	82	26.4	2610	37	0.15	0.583
	RES-009 647.52-648.1	N	0.01	0.838	1.65	8.4	330	1.88	0.76	0.45	60.1	6.89	179	34.3	714	20.9	0.15	0.284
	RES-009 718-718.58	N	0.02	0.382	0.51	14.8	350	2.35	1.8	0.03	70.9	7.73	390	6.3	1480	24.5	0.21	0.908
	RES-009 810.42-810.98	N	0.02	0.705	1.47	7.5	240	1.44	1.92	0.9	44.6	3.76	165	31.6	404	20	0.15	0.871
	RES-009 906.08-906.58	N	0.02	0.55	0.84	4.1	330	1.49	1.11	0.43	40.4	2.36	199	27.1	406	20.1	0.18	0.553
	RES-009 987.9-988.45	N	0.06	0.362	1.86	34.6	210	1.94	6.27	0.27	44.9	1.73	242	46.8	1210	33.5	0.22	1.385
	RES-009 994.67-997.67	N	0.02	0.182	0.95	25.9	990	3.27	2.64	0.15	45.6	2.29	265	6.7	784	27.4	0.15	2.36
	RES-009 1012.16-1014.16	N	0.01	0.176	0.71	33	1050	2.44	2.13	0.1	51.7	1.92	267	5.1	934	23.8	0.14	1.76
	RES-009 1027.38-1030.3	N	0.02	0.179	0.69	43.5	1010	2.01	0.96	0.13	57.4	1.58	270	7	1180	24.9	0.15	0.62
	RES-009 1045.3-1048.3	N	1	0.178	0.4	12.9	920	1.72	0.53	0.02	57.6	1.01	244	6.5	2600	26.1	0.14	0.712
	RES-009 105.16-105.73	N	<0.01	0.258	0.26	1.2	1040	2.45	0.08	0.08	100.5	4.58	151	5	10.1	20.2	0.14	0.053
	RES-009 1063.3-1066.3	N	1.03	0.186	0.31	16.4	940	1.6	0.67	0.11	46	0.96	306	6.8	3300	23.8	0.15	0.362
	RES-009 1081.3-1084.3	N	0.86	0.17	0.52	12.4	1030	2.04	0.68	10.4	49.8	1	365	5.9	1600	24.6	0.15	0.219
	RES-009 1098.34-1100.96	N	1.33	0.178	0.54	20.9	930	1.63	2.06	1.78	39.7	0.92	336	7.5	590	23.7	0.12	0.154

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Lead PPM	Lithium PPM	Manganese PPM	Molybdenum PPM	Nickel PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Selenium PPM	Silver PPM	Strontium PPM	Tantalum PPM	Tellurium PPM
RES-009	RES-009 7.43-7.96	N	20.9	25	655	1.58	4.9	17.2	580	<0.002	114.5	3	0.01	348	1.28	<0.05
	RES-009 199.18-199.78	N	18.7	41.8	638	1.52	4.1	20	580	<0.002	106.5	2	0.06	373	1.21	<0.05
	RES-009 199.78-200.3	N	19.4	43	647	1.49	4.6	20.4	590	<0.002	110.5	2	0.05	376	1.26	<0.05
		FD	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	RES-009 281.14-281.64	N	20	40.2	638	1.05	4.6	19.4	570	<0.002	109	2	0.06	609	1.23	<0.05
	RES-009 348.3-348.83	N	20.1	42.7	722	1.44	6.3	20.1	620	<0.002	110	2	0.04	408	1.21	<0.05
	RES-009 447.23-447.8	N	29.9	65.1	770	1.22	41.3	12.5	910	<0.002	97.3	2	0.21	541	0.77	0.26
	RES-009 485.12-485.71	N	31.4	24.6	1110	3.71	45.6	8	840	<0.002	68.2	2	0.14	508	0.49	0.21
	RES-009 557.06-557.56	N	34.8	45.9	549	57.3	40.8	9.6	940	0.006	190	3	0.6	117	0.69	0.96
	RES-009 647.52-648.1	N	33.6	44.5	1275	13.05	58.5	9.5	1030	0.003	101	3	0.24	219	0.63	0.6
	RES-009 718-718.58	N	56.9	8.6	341	71.6	16	4.8	1260	0.004	130.5	3	0.17	95.4	0.33	2.12
	RES-009 810.42-810.98	N	69.9	17.6	1665	9.73	70.4	6.6	1330	<0.002	78	2	0.2	230	0.42	1.92
	RES-009 906.08-906.58	N	39.6	12.8	1650	5.02	58	5.6	840	<0.002	93.2	2	0.41	170	0.35	0.79
	RES-009 987.9-988.45	N	151	5.3	641	19.85	30.9	3.9	830	<0.002	94.5	7	2.72	106	0.25	6.43
	RES-009 994.67-997.67	N	87.5	5.1	698	8.34	12.5	8	410	<0.002	251	2	0.39	151	0.56	1.33
	RES-009 1012.16-1014.16	N	132.5	4.1	717	4.83	10.5	7.3	420	<0.002	226	1	0.6	174	0.5	0.86
	RES-009 1027.38-1030.3	N	42.9	4.7	1165	4.97	9.9	8.1	620	<0.002	157	2	0.67	442	0.56	0.59
	RES-009 1045.3-1048.3	N	19.1	5.5	343	2.66	10.9	7.8	320	<0.002	161.5	2	1.47	488	0.53	0.98
	RES-009 105.16-105.73	N	19.2	39.3	662	1.45	5.3	19.3	610	<0.002	106	2	0.04	379	1.2	<0.05
	RES-009 1063.3-1066.3	N	13	5.2	252	3.04	12.4	7.5	450	<0.002	163.5	3	0.85	345	0.5	0.64
	RES-009 1081.3-1084.3	N	11.6	5.4	223	2.51	16	7.7	470	<0.002	168.5	2	0.66	321	0.53	0.62
	RES-009 1098.34-1100.96	N	9.4	6.1	207	4.36	12.9	7.4	500	0.002	171	2	1.37	257	0.49	2.38

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Thallium PPM	Thorium PPM	Tin PPM	Tungsten PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zinc PPM	Zirconium PPM
RES-009	RES-009 7.43-7.96	N	0.6	12.2	1.9	1.1	2.3	26	29.9	67	53
	RES-009 199.18-199.78	N	0.42	10.2	1.8	1.2	2.4	27	27.9	62	49.4
	RES-009 199.78-200.3	N	0.44	10.6	1.9	1.2	2.5	28	28.5	62	50.6
		FD	--	--	--	--	--	--	--	--	--
	RES-009 281.14-281.64	N	0.46	10.2	1.8	1	2.5	26	28.6	64	54.8
	RES-009 348.3-348.83	N	0.5	10.2	1.9	1.1	2.4	29	28	64	50.3
	RES-009 447.23-447.8	N	0.46	6.8	1.6	1.9	1.8	85	24.1	136	83.9
	RES-009 485.12-485.71	N	0.39	4.4	1.5	2.3	2.9	96	19.8	186	70.9
	RES-009 557.06-557.56	N	1.06	11.1	12.3	14.9	3.4	90	17.6	184	47.1
	RES-009 647.52-648.1	N	0.56	6.4	3.1	5.2	1.7	158	21.9	286	60.8
	RES-009 718-718.58	N	0.59	10.4	7.9	9.4	3.2	124	11.3	87	46
	RES-009 810.42-810.98	N	0.51	4.2	4	5.1	1.3	149	23.4	547	58.9
	RES-009 906.08-906.58	N	0.61	3.6	3.9	5.8	1.2	141	19	416	66.2
	RES-009 987.9-988.45	N	0.57	4.7	16.4	24.2	2.6	147	11.6	498	39.9
	RES-009 994.67-997.67	N	2.24	5.1	2.1	6.6	3.4	51	9.4	454	23.8
	RES-009 1012.16-1014.16	N	2.03	4.4	1.4	6.6	2.3	34	7.6	946	18
	RES-009 1027.38-1030.3	N	1.27	4.5	1.4	6.8	2.7	34	11	649	21.5
	RES-009 1045.3-1048.3	N	1.08	4.7	1.3	3.9	2.7	34	28.2	579	20.6
	RES-009 105.16-105.73	N	0.43	10	1.9	1.2	2.3	29	27.8	66	51.7
	RES-009 1063.3-1066.3	N	1.09	4.4	1.3	13.1	1.8	37	10.2	951	21.3
	RES-009 1081.3-1084.3	N	1.02	4.6	1.5	8.1	1.5	33	6.5	564	23
	RES-009 1098.34-1100.96	N	1.16	4.3	1.3	9.8	1.4	34	6.7	748	21.8

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Calcium %	Iron %	Magnesium %	Potassium %	Sodium %	Sulfide %	Titanium %	Antimony PPM	Arsenic PPM	Barium PPM	Beryllium PPM
RES-009D	RES-009D 1119.32-1122.42	N	4.7	1.8	0.74	99	7.2	0.37	2.18	0.42	3.57	2.5	0.84	0.223	0.74	17.1	770	2.2
		FD	2	0.59	6	98.9	7.29	0.4	2.33	0.45	3.74	2.69	0.82	0.231	0.84	14.3	790	2.54
	RES-009D 1128.62-1131.72	N	2.7	0.93	2.1	99.5	7.14	0.44	2.35	0.74	3.24	3.12	1.07	0.234	0.56	20.6	540	2.09

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Bismuth PPM	Cadmium PPM	Cerium PPM	Cesium PPM	Chromium, Total PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM	Lanthanum PPM	Lead PPM	Lithium PPM	Manganese PPM	Molybdenum PPM
RES-009D	RES-009D 1119.32-1122.42	N	1.54	3.71	43.5	1.3	244	7.5	946	20.3	0.17	0.349	19.6	13.7	4.8	165	2.72
		FD	1.9	4.19	47.9	1.46	235	7.9	1000	20.8	0.16	0.382	23	15.9	5.1	174	2.88
	RES-009D 1128.62-1131.72	N	2.29	2.06	47.8	0.99	242	11.5	594	22.3	0.16	0.291	23.7	35	5.3	398	3.37

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Nickel PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Selenium PPM	Silver PPM	Strontium PPM	Tantalum PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Tin PPM	Tungsten PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zinc PPM	Zirconium PPM
RES-009D	RES-009D 1119.32-1122.42	N	11.7	6.3	460	<0.002	140	10	1.4	351	0.41	1.73	0.89	3.8	1.5	11.7	1.2	40	8.4	724	15.7
		FD	12.5	6.9	460	0.002	144	10	1.47	360	0.48	1.79	0.87	4.5	1.6	12.4	1.4	41	9	750	17.7
	RES-009D 1128.62-1131.72	N	18.5	6.9	480	0.003	124	9	0.78	314	0.48	2.21	0.73	4.6	1.6	10.9	1.3	43	11.4	879	17.9

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Calcium %	Iron %	Magnesium %	Potassium %	Sodium %	Sulfide %	Titanium %	Antimony PPM
RES-009E	RES-009E 1307.1-1310.1	N	2.4	0.61	2.7	99.8	6.54	0.07	11.15	0.35	3.04	0.03	10	0.129	0.46
	RES-009E 1319.1-1322.1	N	1.7	0.8	2.2	99.8	6.9	0.04	3.66	0.48	3.59	0.02	3.54	0.131	0.27
	RES-009E 1335.41-1338.16	N	1.8	0.69	1.8	99.8	7.05	0.06	5.3	0.31	3.34	0.03	5.6	0.114	0.8
	RES-009E 1351.03-1354.03	N	1.4	0.49	3.6	99.9	7.39	0.05	4.97	0.37	3.55	0.03	5.27	0.124	0.24
	RES-009E 1368.07-1370.69	N	2.5	0.76	0.71	99.9	6.47	0.06	8.75	0.29	3.07	0.02	9.38	0.117	0.23
	RES-009E 1385.61-1388.61	N	2	0.7	1.7	99.9	5.89	0.05	6.83	0.29	2.84	0.02	7.13	0.106	0.18
	RES-009E 1402.22-1404.53	N	0.98	0.35	1.8	100	6.53	0.05	5.31	0.36	3.27	0.02	5.56	0.128	0.19
	RES-009E 1410.5-1411.5	N	1.9	0.33	1.6	99.9	6.65	0.06	5.31	0.36	3.28	0.03	5.6	0.131	0.24
	RES-009E 1418.16-1419.8	N	1.8	0.51	0.41	99.9	6.97	0.07	6.83	0.37	3.41	0.03	7.24	0.149	0.23
	RES-009E 1431.42-1433.8	N	2.7	0.86	0.37	99.9	6.18	0.09	6.87	0.24	2.8	0.03	7.46	0.103	0.95
	RES-009E 1446.41-1449.41	N	2.4	0.87	1	99.8	8.29	0.11	10.15	0.4	3.52	0.02	10	0.303	0.69
	RES-009E 1464.41-1467.41	N	4.2	0.76	1.2	99.9	8.13	0.15	8.61	0.48	3.78	0.03	9.04	0.256	0.18
	RES-009E 1478.13-1481.13	N	3.7	0.91	-0.14	99.8	7.65	0.09	9.36	0.46	3.32	0.02	9.85	0.23	0.25
	RES-009E 1496.13-1499.13	N	4	1.3	0.22	99.9	6.59	0.18	9.81	0.36	2.77	0.02	10	0.205	0.29
	RES-009E 1510.74-1527.19	N	4.4	0.53	8.8	99.7	7.09	0.17	9.64	0.37	3.33	0.03	10	0.18	0.25
	RES-009E 1514.13-1517.13	N	0.7	0.53	0.11	100	7.28	0.09	9.57	0.39	3.5	0.03	10	0.168	0.19
	RES-009E 1532.4-1534.49	N	1.1	0.23	-0.58	99.9	6.51	0.13	10	0.29	2.83	0.03	10	0.184	0.25
	RES-009E 1540.5-1541.5	N	2.1	0.62	0.01	99.8	6.58	0.13	10	0.29	2.85	0.03	10	0.179	0.19
	RES-009E 1547.47-1550.47	N	2.8	0.54	-0.32	99.9	5.09	0.17	9.39	0.38	1.57	0.02	10	0.202	0.22
	RES-009E 1565.47-1568.47	N	3.4	1.1	0.65	99.8	5.66	0.03	11.9	0.31	2.74	0.03	10	0.179	0.34
	RES-009E 1597.32-1599.88	N	1.6	0.49 M2	1.5	99.8	3.73	0.1	13.95	0.04	0.37	0.01	10	0.11	2.22
	RES-009E 1602.44-1605	N	1.9	0.16	2.1	99.8	6.65	0.11	10.6	0.12	1.13	0.02	10	0.186	0.53
	RES-009E 1617.38-1619.14	N	5.3	0.77	2	99.6	7.29	0.26	4.62	0.68	2.54	0.02	4.18	0.291	0.13
	RES-009E 1634.46-1637.47	N	3.3	0.88	0.21	99.9	6.38	0.1	8.33	0.38	2.98	0.04	8.69	0.123	0.37
	RES-009E 1650.14-1652.81	N	3	0.25	0.69	99.5	5.53	0.15	9.06	0.08	0.59	0.01	9.97	0.239	0.74
		FD	1.5	0.61	0.63	99.7	5.51	0.14	9.14	0.08	0.59	0.01	10	0.245	0.83
	RES-009E 1669.07-1672.07	N	1.7	0.43	4.2	99.9	7.93	0.04	4.53	0.45	3.6	0.05	4.47	0.213	0.12
	RES-009E 1685.09-1687.47	N	1.6	0.06	3.8	100	6.45	0.03	3.03	0.37	3.31	0.03	3.28	0.115	0.12
	RES-009E 1697.61-1700.61	N	4	0.22	3.3	99.9	6.45	0.05	5.35	0.33	2.79	0.03	5.68	0.189	0.26
	RES-009E 1718.61-1721.61	N	2	0.29	2.5	99.8	5.8	0.01	3.62	0.24	2.08	0.02	3.73	0.162	22.9
	RES-009E 1739.63-1742.63	N	1	0.22	3.2	100	2.22	0.01	2.99	<0.01	0.03	<0.01	2.88	0.054	1.18
		FD	1.5	0.32	2.5	100	3.99	0.03	2.6	0.15	1.42	0.02	2.73	0.126	0.46
	RES-009E 1789.83-1792.31	N	<0.51	0.34	2.8	99.9	4.87	0.2	3.43	0.22	1.98	0.02	3.59	0.154	0.39
	RES-009E 1801.42-1804.15	N	<1.6	2.1	2.8	99.9	4.43	0.07	9.71	0.15	1.24	0.02	10	0.11	0.39
	RES-009E 1818.62-1821.62	N	<2.2	2.4	1.3	99.9	4.22	0.66	11.4	0.48	1.34	0.01	10	0.174	0.11
	RES-009E 1829.95-1832.48	N	<2.2	3.5	0.6	99.9	2.53	0.54	12.7	1.61	0.93	0.03	8.33	0.115	0.3
	RES-009E 1846.66-1849.66	N	9.4	5.7	2.8	99.9	2.03	3.62	16.15	1.23	0.34	0.01	10	0.13	0.58
	RES-009E 1862.15-1865.15	N	8.7	2	3.6	99.4	1.85	10.75	12.85	1.51	0.24	0.01	10	0.131	0.31

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Alpha, Gross PCI/G	Radium 226 with alpha emitting isotopes PCI/G	Radium-228 PCI/G	Solids, Percent %	ALS Aluminum %	Calcium %	Iron %	Magnesium %	Potassium %	Sodium %	Sulfide %	Titanium %	Antimony PPM
RES-009E	RES-009E 1867.87-188	N	7.6	3.3	5.9	99.8	1.63	15.6	13.4	1.56	0.31	<0.01	9.26	0.089	0.6
	RES-009E 1880.15-1882.37	N	8.9	2.5	2.3	99.1	0.94	13.8	10.9	1.22	0.2	0.01	7.36	0.059	0.63
	RES-009E 1885.5-1886.5	N	10	3.2	5.8	99.2	0.92	13.95	11.25	1.2	0.19	0.01	7.77	0.058	0.65
	RES-009E 1899-1901.88	N	3.4	0.91	2.7	99.6	3.03	3.05	8.84	1.14	1.07	0.02	6.71	0.151	0.12
	RES-009E 1929.76-1932.58	N	3.9	0.97	2.1	99.7	0.64	6.33	14.5	0.59	0.14	0.01	8.43	0.039	0.18
	RES-009E 1947.67-1950.67	N	6.4	0.58	4.7	99.8	4.1	4.05	7.32	5.07	2.33	0.03	6.14	0.165	0.48
	RES-009E 1954.6-1956	N	4.6	0.48	3.9	99.8	3.9	2.46	4.67	3.52	2.42	0.03	3.45	0.111	0.45
	RES-009E 1967.76-1969.72	N	3.1	0.07	5.2	99.6	6.61	0.23	2.54	1.22	5.35	0.07	1.7	0.149	0.13
	RES-009E 1974.78-1977.89	N	5.3 M2	1.2	9	99.6	1.76	13.5	6.67	10.7	0.38	0.02	3.45	0.069	0.27
	RES-009E 1984.74-1987.74	N	<0.53	0.2	5.3	99.9	0.21	0.96	2.8	0.02	0.01	<0.01	3.38	0.014	1.44
	RES-009E 2056.38-2075	N	6.1	1.4	6.5	100	6.35	3.33	5.71	2.67	4.44	0.02	5.99	0.432	0.12

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Arsenic PPM	Barium PPM	Beryllium PPM	Bismuth PPM	Cadmium PPM	Cerium PPM	Cesium PPM	Chromium, Total PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM	Lanthanum PPM	Lead PPM	Lithium PPM
RES-009E	RES-009E 1307.1-1310.1	N	8.1	110	1.83	10.85	0.21	29.4	0.89	14	13.7	6240	28.1	0.27	0.224	13	8.7	1.3
	RES-009E 1319.1-1322.1	N	6.4	320	2.26	2.48	0.53	41.5	1.19	13	6.8	1535	24.2	0.16	0.42	20	4.1	0.9
	RES-009E 1335.41-1338.16	N	7.4	210	2.33	3.9	0.07	35.1	0.87	10	10	592	29.2	0.18	0.149	16.8	20.2	1.7
	RES-009E 1351.03-1354.03	N	6	190	2.2	6.13	0.13	26.1	0.91	9	8.9	2560	27	0.17	0.29	12.5	2.9	1.8
	RES-009E 1368.07-1370.69	N	2	130	1.87	2.19	<0.02	21.6	0.54	13	14.2	472	19.35	0.22	0.149	9.9	6.7	1.8
	RES-009E 1385.61-1388.61	N	2.5	110	1.89	1.98	0.58	30.7	0.84	11	13	314	18.75	0.21	0.222	14.6	4	2.1
	RES-009E 1402.22-1404.53	N	8.8	180	2.27	2.9	<0.02	36	0.82	342	10	1395	23.3	0.17	0.305	17	6.9	1.6
	RES-009E 1410.5-1411.5	N	8.4	190	2.31	3.08	0.03	35.6	0.82	305	9.9	1470	22.9	0.19	0.304	16.7	6.9	2.3
	RES-009E 1418.16-1419.8	N	5.1	80	2.43	4.05	<0.02	30.9	1.15	15	13.6	2510	24.8	0.2	0.119	13.4	3.7	1.8
	RES-009E 1431.42-1433.8	N	30.8	80	2.07	1.87	0.25	24.4	0.56	291	15.6	7930	20.3	0.18	0.047	10.8	12.4	2.3
	RES-009E 1446.41-1449.41	N	18.8	60	3.02	8.19	0.85	31.3	1.33	11	27.5	3060	25.9	0.29	0.228	13.2	1.8	4.3
	RES-009E 1464.41-1467.41	N	4.7	100	3.2	3.28	0.36	47.6	1.3	11	22.3	2240	24.4	0.25	0.899	22.1	2.8	2.6
	RES-009E 1478.13-1481.13	N	17.5	80	3.38	6.7	0.63	40.4	1.22	7	15.4	6530	24.9	0.28	0.569	18	3.4	3.7
	RES-009E 1496.13-1499.13	N	2.2	80	3.16	6.43	0.22	36.6	1.13	15	17.3	4840	27	0.25	0.645	16.7	2	4.8
	RES-009E 1510.74-1527.19	N	1.9	70	2.46	2.96	0.22	28.9	0.87	519	23.4	2020	24.3	0.27	0.328	13.3	3.8	2.8
	RES-009E 1514.13-1517.13	N	2	90	2.65	2.33	0.04	30.6	0.93	17	20.9	1820	24.3	0.25	0.273	14.9	1.6	2.5
	RES-009E 1532.4-1534.49	N	2	180	2.05	3.54	0.49	23.3	0.77	309	35.5	2250	23.3	0.2	0.285	10.1	7.6	3.9
	RES-009E 1540.5-1541.5	N	1.7	170	2	3.47	0.48	23.2	0.77	318	34.8	2270	23.6	0.21	0.274	10	7	4.2
	RES-009E 1547.47-1550.47	N	3.9	160	2.42	11.1	8.95	28.5	0.76	36	34.4	5290	20.3	0.2	1.13	12.8	13.5	8.9
	RES-009E 1565.47-1568.47	N	2.7	140	2.15	5	0.47	26.4	0.67	22	30.2	1060	21	0.22	0.117	11.8	5.4	3.7
	RES-009E 1597.32-1599.88	N	15.6	100	0.45	4.74	0.07	22.7	0.13	10	42.5	1355	8.31	0.2	0.132	10.3	344	24
	RES-009E 1602.44-1605	N	3.5	100	1.16	2.08	0.1	31.9	0.39	5	53.6	1105	18.2	0.2	0.527	14.1	676	39.1
	RES-009E 1617.38-1619.14	N	1.2	370	3.78	1.01	0.47	43.1	2.62	92	22.6	1720	21.1	0.15	0.176	20.9	12.9	15.4
	RES-009E 1634.46-1637.47	N	3.2	230	2.95	2.41	0.17	42.9	1.11	25	31.9	9060	21.4	0.18	1.515	21.9	4.9	5.2
	RES-009E 1650.14-1652.81	N	5.6	130	1.26	8.58	0.13	29.6	0.43	147	60.2	10000	29.1	0.16	2.93	15.6	114	29.1
		FD	6.6	130	1.02	9.05	0.09	28.4	0.44	151	58	10000	30.1	0.19	3.06	15.1	119	19.3
	RES-009E 1669.07-1672.07	N	2.8	320	4.67	1.38	1.01	54.8	1.32	9	21.3	9940	27	0.18	0.214	25.5	3.9	12.1
	RES-009E 1685.09-1687.47	N	103	550	4.18	1.99	0.21	39.3	0.91	240	16.2	10000	30.9	0.12	0.664	19	219	3.5
	RES-009E 1697.61-1700.61	N	6.5	160	3.27	1.74	0.13	68.3	0.82	24	52.3	5400	25.2	0.2	0.239	32.4	113.5	9.5
	RES-009E 1718.61-1721.61	N	174	390	2.63	7.93	0.78	84.4	0.55	19	18.4	5090	31.7	0.18	0.605	40	334	20
	RES-009E 1739.63-1742.63	N	13.4	90	0.26	25.5	0.21	22.9	<0.05	12	14.5	5480	15.3	0.12	0.421	10.3	279	16.4
		FD	130.5	180	2.12	3.43	0.93	44	0.34	160	11.1	6230	21.1	0.13	0.196	20.7	110.5	7.9
	RES-009E 1789.83-1792.31	N	54.4	170	2.76	2.22	1.03	41.4	0.44	21	15.1	8600	21.9	0.12	0.697	20	44.8	7.9
	RES-009E 1801.42-1804.15	N	4.2	100	1.84	6.98	0.86	44.1	0.45	42	43	10000	33.8	0.23	0.673	24.3	2.7	8.8
	RES-009E 1818.62-1821.62	N	<0.2	90	3.4	4.52	0.18	51.7	1.28	51	32.2	10000	35.6	0.52	1.71	24.5	9.7	16.9
	RES-009E 1829.95-1832.48	N	1.8	40	3.6	2.76	0.74	29.2	1.4	33	50.2	10000	33.4	0.26	3.34	14.8	9	11.2
	RES-009E 1846.66-1849.66	N	4.1	20	4.68	3.04	5.82	26.7	1.1	42	52.1	10000	35.4	0.27	4.47	15.7	7.9	8
	RES-009E 1862.15-1865.15	N	11	10	3.43	3.55	0.34	25.1	1.15	36	39.3	10000	27.5	0.4	1.825	16.5	14.5	9.6

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Arsenic PPM	Barium PPM	Beryllium PPM	Bismuth PPM	Cadmium PPM	Cerium PPM	Cesium PPM	Chromium, Total PPM	Cobalt PPM	Copper PPM	Gallium PPM	Germanium PPM	Indium PPM	Lanthanum PPM	Lead PPM	Lithium PPM
RES-009E	RES-009E 1867.87-188	N	6	100	3.03	4.89	5.26	20.9	1.02	431	50.5	10000	37.9	0.41	4.19	16	3.3	11.5
	RES-009E 1880.15-1882.37	N	5	10	3.68	3.31	3.32	17.3	0.63	161	38.4	10000	33	0.34	3.52	13.5	4.8	15.4
	RES-009E 1885.5-1886.5	N	5	10	3.96	3.35	3.43	17.45	0.65	140	41.4	10000	33.8	0.35	3.74	13.8	3.2	16.8
	RES-009E 1899-1901.88	N	2	70	3.45	0.65	0.44	22.2	1.93	55	49.7	10000	26.5	0.41	1.335	9.7	2.5	12
	RES-009E 1929.76-1932.58	N	12.8	10	2.6	2.83	3.57	10	0.32	11	41	10000	24.7	0.39	3.49	5.5	2.5	7.9
	RES-009E 1947.67-1950.67	N	<0.2	80	4.19	4.48	0.05	39.7	3.77	29	51.3	10000	22.3	0.3	0.905	18.8	3.5	11.4
	RES-009E 1954.6-1956	N	1.2	260	3.78	0.83	<0.02	32	2.22	13	28.2	10000	24	0.23	0.597	16.9	2.7	23.5
	RES-009E 1967.76-1969.72	N	1	580	5.52	0.38	0.02	39.1	2.24	11	18.9	9650	27	0.18	0.31	20.7	4.2	12
	RES-009E 1974.78-1977.89	N	<5	10	4.47	1.81	2.64	18.95	1.02	13	19.3	10000	25.6	0.2	3.45	8.7	7.4	3.5
	RES-009E 1984.74-1987.74	N	1.8	10	0.21	503	<0.02	5.55	<0.05	4	7	10000	0.91	0.27	0.598	2.2	36	1.2
	RES-009E 2056.38-2075	N	1.2	220	4.47	1.01	<0.02	33.8	5.77	519	28.2	10000	27.9	0.29	0.281	13.8	2.5	11.3

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Manganese PPM	Molybdenum PPM	Nickel PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Selenium PPM	Silver PPM	Strontium PPM	Tantalum PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Tin PPM
RES-009E	RES-009E 1307.1-1310.1	N	41	17.05	13.2	2.7	450	0.071	106	15	0.85	151.5	0.18	11.5	0.49	2.9	12.7
	RES-009E 1319.1-1322.1	N	36	1.28	10.8	3.1	370	0.063	141.5	5	0.58	147.5	0.23	5.1	0.53	4.1	7.7
	RES-009E 1335.41-1338.16	N	48	2.16	8.1	3.1	480	0.008	124.5	6	2.57	157.5	0.22	4.33	0.47	3.6	15.3
	RES-009E 1351.03-1354.03	N	33	1.41	10	3.3	380	0.07	132.5	7	0.6	163	0.24	2.94	0.53	2.4	12.4
	RES-009E 1368.07-1370.69	N	37	6.91	13.5	2.3	570	0.014	99.2	14	0.16	187	0.15	2.18	0.39	2.3	9.3
	RES-009E 1385.61-1388.61	N	40	11.1	8.9	2.8	290	0.051	102.5	11	0.18	72.9	0.21	1.83	0.37	3.5	9.8
	RES-009E 1402.22-1404.53	N	24	21.6	14.2	3	350	0.13	118.5	10	0.68	97.3	0.24	3.98	0.42	3.9	11.8
	RES-009E 1410.5-1411.5	N	23	20.6	13.4	3.1	340	0.124	117	10	0.69	96.8	0.24	4.04	0.43	3.8	11.5
	RES-009E 1418.16-1419.8	N	27	2.48	9.8	3.4	480	0.019	132.5	9	0.46	124.5	0.24	3.92	0.45	3.7	12.1
	RES-009E 1431.42-1433.8	N	19	8.89	9.2	3	670	0.118	97.7	11	1.16	165.5	0.22	12.4	0.48	2.4	14.9
	RES-009E 1446.41-1449.41	N	30	10.3	8.7	3	1210	0.194	153	14	0.74	338	0.2	9.3	0.69	2.1	14.4
	RES-009E 1464.41-1467.41	N	34	2.19	9.8	2.7	1420	0.012	151.5	12	0.41	464	0.16	5.59	0.59	2.6	12.3
	RES-009E 1478.13-1481.13	N	40	3.24	4.2	2.8	860	0.049	127	15	1.21	245	0.16	8.88	0.57	2	10.7
	RES-009E 1496.13-1499.13	N	58	3.08	7.9	2.5	1220	0.01	115.5	17	0.56	278	0.13	6.69	0.48	2.1	11.4
	RES-009E 1510.74-1527.19	N	47	8.5	16.9	2.1	900	0.011	109	17	0.3	101	0.16	4.72	0.48	2.1	13
	RES-009E 1514.13-1517.13	N	35	7.14	11.2	2.3	650	0.011	131	16	0.22	111.5	0.16	3.9	0.48	2.1	11.3
	RES-009E 1532.4-1534.49	N	23	10.15	24.9	1.8	790	0.022	88.3	20	0.56	73.6	0.12	5.19	0.4	1.6	10.3
	RES-009E 1540.5-1541.5	N	22	10.25	23.1	1.8	800	0.022	87.8	19	0.53	71.9	0.12	5.28	0.38	1.5	10.2
	RES-009E 1547.47-1550.47	N	82	15.1	28.7	2.2	670	0.012	68.6	24	2.85	45.6	0.14	12.55	0.31	2	12.3
	RES-009E 1565.47-1568.47	N	52	13.8	14	2.5	320	0.015	90.1	21	0.51	56.2	0.17	2.81	0.35	2.2	11.9
	RES-009E 1597.32-1599.88	N	32	60.4	8.1	1.5	980	0.058	13.7	19	2.84	267	0.07	3.77	0.05	1.4	17.1
	RES-009E 1602.44-1605	N	25	27.7	10.4	2.4	1300	0.04	42.4	16	2.15	354	0.13	3.97	0.16	2	10.7
	RES-009E 1617.38-1619.14	N	162	18.35	14.8	4	910	0.037	120	9	0.63	120.5	0.29	0.71	0.71	3.6	5.4
	RES-009E 1634.46-1637.47	N	43	12.05	14.7	3.4	820	0.022	112.5	12	2.42	135.5	0.24	1.81	0.45	5.3	15.1
	RES-009E 1650.14-1652.81	N	49	25.8	23.4	5.2	920	0.043	24.2	16	14.65	185.5	0.32	7.58	0.18	3.2	16.5
		FD	51	29.1	23	5.7	910	0.048	27	18	12.55	191.5	0.36	6.23	0.22	3.6	17
	RES-009E 1669.07-1672.07	N	26	118	8.7	3.7	740	0.153	137	15	1.4	283	0.24	0.53	0.47	4	20.4
	RES-009E 1685.09-1687.47	N	18	168	9.8	3.2	640	0.371	121.5	9	4.52	109.5	0.22	0.86	0.44	3.8	24.3
	RES-009E 1697.61-1700.61	N	33	252	15.3	6.1	740	0.509	102.5	14	5.38	174.5	0.39	0.44	0.27	11.2	19.7
	RES-009E 1718.61-1721.61	N	48	308	8.4	4.9	640	0.527	75.5	10	9.15	357	0.35	1.99	0.2	9.1	243
	RES-009E 1739.63-1742.63	N	67	395	5.7	2.1	270	0.668	1	6	11.55	217	0.1	3.51	<0.02	2.5	6.3
		FD	30	343	6.5	4	460	0.5	55.7	9	3.1	177.5	0.27	1.49	0.14	5.5	14.8
	RES-009E 1789.83-1792.31	N	43	419	9.6	4.6	320	0.803	80.5	11	1.67	131	0.28	1.43	0.2	5.5	16.8
	RES-009E 1801.42-1804.15	N	56	341	22.3	3	390	0.635	55	31	2.86	374	0.18	3.6	0.66	4.7	29
	RES-009E 1818.62-1821.62	N	219	581	35.6	5.7	660	0.945	76.3	23	2.76	6.1	0.3	1.88	0.31	5.5	35.4
	RES-009E 1829.95-1832.48	N	608	291	31.6	4.1	490	0.537	63.3	43	5.25	6.3	0.24	2.83	0.33	3.6	28.6
	RES-009E 1846.66-1849.66	N	1060	362	23.5	4.8	740	0.657	27.9	40	5.34	14.3	0.28	2.68	0.13	3.4	35.7
	RES-009E 1862.15-1865.15	N	2580	389	10.8	4.4	760	0.442	25.2	33	3.94	22.6	0.27	2.57	0.09	2.9	26.3

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Manganese PPM	Molybdenum PPM	Nickel PPM	Niobium PPM	Phosphorus, Total (as P) PPM	Rhenium PPM	Rubidium PPM	Selenium PPM	Silver PPM	Strontium PPM	Tantalum PPM	Tellurium PPM	Thallium PPM	Thorium PPM	Tin PPM
RES-009E	RES-009E 1867.87-188	N	2660	439	27.5	3.1	980	0.796	32.6	39	5.93	48.7	0.2	4.04	0.11	2.5	31.8
	RES-009E 1880.15-1882.37	N	2440	385	12.5	2	830	0.738	18.6	35	6.74	35.4	0.12	4.23	0.09	1.4	28.7
	RES-009E 1885.5-1886.5	N	2470	389	13.4	2.1	820	0.772	19.4	38	7	37	0.12	4.36	0.09	1.4	29.8
	RES-009E 1899-1901.88	N	705	316	36.2	4.5	320	0.622	67.4	54	4.35	16.8	0.28	0.98	0.21	4.5	20.7
	RES-009E 1929.76-1932.58	N	1420	70.1	14.2	1.8	260	0.137	11.5	45	2.88	8.4	0.09	2.62	0.06	1	23.7
	RES-009E 1947.67-1950.67	N	555	245	36.9	5.4	780	0.457	156.5	25	3.18	8.3	0.36	1.06	0.54	5.8	17.5
	RES-009E 1954.6-1956	N	451	203	23.6	2.8	760	0.311	117.5	29	2.75	24	0.21	0.68	0.43	3.6	16.4
	RES-009E 1967.76-1969.72	N	150	36.7	21.4	2.6	620	0.039	185.5	14	1.45	53.9	0.2	0.24	0.65	4.4	16.6
	RES-009E 1974.78-1977.89	N	1755	63.2	18.5	2.8	450	0.079	34	20	3.33	26.2	0.19	1.17	0.17	2.5	19.9
	RES-009E 1984.74-1987.74	N	88	643	11	1.3	40	1.135	1.1	7	25.9	42.7	0.08	1.56	<0.02	1.1	15.7
	RES-009E 2056.38-2075	N	212	202	82.9	2.3	1280	0.318	187	15	1	176	0.16	0.39	0.84	1	13.5

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Tungsten PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zinc PPM	Zirconium PPM
RES-009E	RES-009E 1307.1-1310.1	N	39.2	3.6	58	6.4	20	40.5
	RES-009E 1319.1-1322.1	N	32.5	2	55	5.7	26	23.4
	RES-009E 1335.41-1338.16	N	46.5	2	49	5.5	20	27.9
	RES-009E 1351.03-1354.03	N	33.2	1.4	56	3.8	6	28
	RES-009E 1368.07-1370.69	N	30.6	2.9	69	4.6	3	33.3
	RES-009E 1385.61-1388.61	N	36.8	0.9	48	4.6	13	18.4
	RES-009E 1402.22-1404.53	N	37.6	1.6	52	5.4	8	22.6
	RES-009E 1410.5-1411.5	N	37.5	1.6	52	5.4	10	23
	RES-009E 1418.16-1419.8	N	44.9	3	67	7.4	7	29.8
	RES-009E 1431.42-1433.8	N	33.7	3.3	46	5.5	19	26.2
	RES-009E 1446.41-1449.41	N	48.6	2.8	170	17.7	16	29.6
	RES-009E 1464.41-1467.41	N	40.9	3.4	166	17.1	11	30.1
	RES-009E 1478.13-1481.13	N	43	3.9	107	14.7	19	36.1
	RES-009E 1496.13-1499.13	N	58.9	3.6	111	12.7	19	35.7
	RES-009E 1510.74-1527.19	N	76	2.4	109	8	6	21.9
	RES-009E 1514.13-1517.13	N	33.8	2	102	7	4	23.6
	RES-009E 1532.4-1534.49	N	85.3	2.2	107	10	21	23.2
	RES-009E 1540.5-1541.5	N	78.3	2.1	107	10	17	23
	RES-009E 1547.47-1550.47	N	49.3	3.7	95	17.2	265	29.7
	RES-009E 1565.47-1568.47	N	40.4	2	96	10.2	1645	25.2
	RES-009E 1597.32-1599.88	N	81.4	1.4	40	4	1135	10.7
	RES-009E 1602.44-1605	N	58.7	2.4	74	6.8	650	23.4
	RES-009E 1617.38-1619.14	N	78.1	2.6	115	26.8	357	21.5
	RES-009E 1634.46-1637.47	N	51.4	2.5	58	14.6	148	26.4
	RES-009E 1650.14-1652.81	N	71.1	4.2	102	10.7	436	23.5
		FD	83.3	4.7	103	12.3	441	24.6
	RES-009E 1669.07-1672.07	N	47.3	3.1	150	7	1325	35
	RES-009E 1685.09-1687.47	N	60.1	2.2	66	3.2	9	14.4
	RES-009E 1697.61-1700.61	N	59.3	3.1	111	8.1	4	59.1
	RES-009E 1718.61-1721.61	N	57.1	2.8	167	7.2	14	53.9
	RES-009E 1739.63-1742.63	N	25.6	0.9	46	1.4	3	14.3
		FD	40.4	1.3	73	5.2	41	20.9
	RES-009E 1789.83-1792.31	N	39.7	2.1	107	5.6	4	39.8
	RES-009E 1801.42-1804.15	N	45	8.3	132	7	974	18.5
	RES-009E 1818.62-1821.62	N	70.9	8.3	123	15.9	197	25
	RES-009E 1829.95-1832.48	N	111.5	10.8	138	9	305	17.7
	RES-009E 1846.66-1849.66	N	169.5	15.5	125	12.9	2440	25.6
	RES-009E 1862.15-1865.15	N	82	6.8	79	14.4	258	32.9

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX D
ICP-MS WHOLE ROCK ANALYSIS

Hole ID	Sample ID	Type	Tungsten PPM	Uranium PPM	Vanadium PPM	Yttrium PPM	Zinc PPM	Zirconium PPM
RES-009E	RES-009E 1867.87-188	N	119.5	11.7	111	14.8	2140	37.8
	RES-009E 1880.15-1882.37	N	132.5	8.2	81	8.8	1200	20.1
	RES-009E 1885.5-1886.5	N	139	8.6	80	9.3	1200	21
	RES-009E 1899-1901.88	N	36.8	4.9	138	15.3	183	20.6
	RES-009E 1929.76-1932.58	N	175.5	4.5	89	11.2	1590	8.3
	RES-009E 1947.67-1950.67	N	39.9	3.9	109	14.3	82	39.2
	RES-009E 1954.6-1956	N	31.4	3.3	119	10.8	78	18.3
	RES-009E 1967.76-1969.72	N	24.3	1.3	117	6.6	30	16.2
	RES-009E 1974.78-1977.89	N	123.5	4.3	48	9.1	773	17.7
	RES-009E 1984.74-1987.74	N	3.7	0.3	5	2.1	177	3.7
	RES-009E 2056.38-2075	N	23.4	3.7	239	12.8	60	11

--	Not requested.
KG H2SO4/T	kilograms sulfuric acid per ton.
MG/L	milligrams per liter.
PCI/G	picocuries per gram.
PPM	parts per million.
T CACOS/KT	tons calcium carbonates per kiloton
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	field duplicate.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
N	normal.
R1	RPD exceeded the method control limit.

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		ALS							
					Aluminum Oxide	Barium Oxide	Calcium Oxide	Chromium Oxide	Iron Oxide	Magnesium Oxide	Manganese Oxide	Phosphorus Pentoxide
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%	%	%
RES-001C	RES-001C 1502-1505	N	1502	1505	16.31	0.08	0.17	0.03	4.41	0.9	0.01	0.11
	RES-001C 1530-1533	N	1530	1533	13.69	0.08	0.46	0.03	6.07	1.59	0.04	0.124
	RES-001C 1557-1560	N	1557	1560	13.29	0.06	0.62	0.04	7.79	1.34	0.04	0.116
	RES-001C 1584-1587	N	1584	1587	14.1	0.09	0.61	0.04	7.03	1.8	0.06	0.137
		FD	1584	1587	14.12	0.08	0.61	0.04	7.3	1.79	0.06	0.135
	RES-001C 1611-1614	N	1611	1614	12.91	0.06	1	0.03	6.7	1.5	0.09	0.128
	RES-001C 1639-1642	N	1639	1642	13.71	0.07	0.79	0.04	7.96	1.73	0.32	0.115
	RES-001C 1666-1669	N	1666	1669	13.54	0.06	0.91	0.03	6.33	1.66	0.2	0.126
	RES-001C 1693-1696	N	1693	1696	13.98	0.07	0.74	0.03	5.77	1.95	0.14	0.116
	RES-001C 1711-1714.96	N	1711	1714.96	16.53	0.07	3.93	0.03	5.95	2.11	0.08	0.193
	RES-001C 1745-1748	N	1745	1748	13.98	0.06	5.75	0.05	5.48	2.79	0.1	0.162
	RES-001C 1771.75-1791.4	N	1771.75	1791.4	1.72	<0.01	26.1	0.04	10.67	10.69	0.51	0.109
	RES-001C 1781-1784	N	1781	1784	1.25	<0.01	23.9	<0.01	2.7	16.86	0.38	0.085
	RES-001C 1799-1802	N	1799	1802	1.27	<0.01	31.08	0.03	21.26	4.08	0.49	0.077
		FD	1799	1802	1.25	<0.01	31.22	<0.01	21.16	4.1	0.49	0.078
	RES-001C 1814-1817	N	1814	1817	13.07	0.01	11.95	0.01	5.16	10.11	0.31	0.211
	RES-001C 1837-1840	N	1837	1840	6.62	<0.01	18.03	0.04	5.84	12.17	0.54	0.089
	RES-001C 1855-1858	N	1855	1858	4.03	<0.01	21.81	0.04	15.67	6.86	0.64	0.077
	RES-001C 1873-1876	N	1873	1876	7.67	0.01	6.93	0.02	9.01	13.11	0.21	0.143
	RES-001C 1892.5-1895	N	1892.5	1895	2.7	<0.01	12.71	0.01	6.81	19.54	0.32	0.09
	RES-001C 1934-1937	N	1934	1937	1.68	<0.01	0.09	0.12	4.96	0.22	0.01	0.025
	RES-001C 1987-1990	N	1987	1990	12.51	0.02	0.88	0.08	14.26	5.16	0.16	0.245
	RES-001C 2007-2010	N	2007	2010	12.49	0.06	2.07	0.06	14.79	5.37	0.16	0.236
		FD	2007	2010	12.49	0.05	2.04	0.06	14.65	5.35	0.16	0.235
	RES-001C 2041-2044	N	2041	2044	14.55	0.09	2.86	0.06	11.73	6.48	0.15	0.255
	RES-001C 2115-2118	N	2115	2118	7.4	<0.01	11.56	0.02	10.84	8.52	0.3	0.16
	RES-001C 2164.4-2166.3	N	2164.4	2166.3	1.18	0.01	0.18	0.07	51.5	0.04	0.01	0.06
	RES-001C 2214-2215	N	2214	2215	0.79	<0.01	15.45	0.03	10.58	14.64	0.41	0.038
	RES-001C 2242-2244	N	2242	2244	10.98	0.03	4.47	0.07	14.62	3.54	0.06	0.681
RES-002A	RES-002A 1007-1010	N	1007	1010	12.3	0.12	0.1	0.03	5.44	0.73	0.01	0.142
	RES-002A 1058-1061	N	1058	1061	14.13	0.09	0.1	0.04	4.22	0.93	0.01	0.194
	RES-002A 1109-1112	N	1109	1112	13.03	0.07	0.08	0.04	4.69	0.67	0.01	0.15
	RES-002A 1154-1156	N	1154	1156	13.8	0.12	0.08	<0.01	5.25	0.86	0.01	0.124
	RES-002A 1201-1203	N	1201	1203	11.32	0.02	0.06	0.06	22.49	0.26	0.01	0.127
		FD	1201	1203	11.32	0.02	0.06	0.05	23.09	0.26	0.01	0.13
	RES-002A 1246-1249	N	1246	1249	13.61	0.07	0.07	0.04	8.29	0.29	0.01	0.167
	RES-002A 1291-1292	N	1291	1292	12.55	0.05	0.04	0.05	8.45	0.13	0.01	0.111
	RES-002A 1325-1328	N	1325	1328	12.09	0.07	0.07	0.04	13.38	0.35	0.01	0.192
	RES-002A 1363-1366	N	1363	1366	12.93	0.05	0.07	0.05	9.3	0.34	0.01	0.149
	RES-002A 1395-1397	N	1395	1397	7.96	0.02	0.03	0.07	15.39	0.18	0.01	0.07
	RES-002A 1414.6-1417	N	1414.6	1417	13.4	0.05	0.08	0.04	10.05	0.65	0.01	0.152
	RES-002A 1454-1457	N	1454	1457	12.67	0.05	0.07	0.01	11.74	0.66	0.01	0.156
	RES-002A 1538-1541	N	1538	1541	14.38	0.05	0.06	0.04	6.37	0.78	0.01	0.075
	RES-002A 1583-1586	N	1583	1586	13.97	0.06	0.02	0.04	6.4	0.8	0.01	0.076
	RES-002A 1627-1630	N	1627	1630	14.03	0.06	0.04	<0.01	4.21	0.77	0.01	0.095
	RES-002A 1732-1735	N	1732	1735	15.57	0.02	0.54	0.02	9.97	4.49	0.09	0.359
		FD	1732	1735	15.33	0.02	0.53	0.02	9.77	4.44	0.08	0.355
	RES-002A 1781-1784	N	1781	1784	9.31	0.04	0.03	<0.01	4.77	0.55	0.01	0.063

FD Field duplicate
N Normal
XRF X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		ALS							
					Aluminum Oxide	Barium Oxide	Calcium Oxide	Chromium Oxide	Iron Oxide	Magnesium Oxide	Manganese Oxide	Phosphorus Pentoxide
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%	%	%
RES-002A	RES-002A 1814-1817	N	1814	1817	6.76	0.02	0.06	0.04	4.22	0.43	0.01	0.052
	RES-002A 1876-1879	N	1876	1879	10.66	0.02	3.8	<0.01	13.2	3.13	0.04	0.175
	RES-002A 1927-1930	N	1927	1930	11.67	0.02	5.21	0.04	10.99	4.28	0.06	0.151
	RES-002A 1981-1984	N	1981	1984	13.39	0.02	4.08	0.03	11.32	5.5	0.08	0.25
	RES-002A 858-861	N	858	861	17.73	0.15	0.06	0.02	2.29	0.58	0.02	0.06
	RES-002A 888-891	N	888	891	13.04	0.15	0.05	0.04	6.04	0.72	0.02	0.093
	RES-002A 927-930	N	927	930	14.77	0.18	0.05	0.02	4.99	1.01	0.02	0.058
	RES-002A 965-968	N	965	968	14.02	0.09	0.07	0.04	3.91	0.85	0.01	0.101
	RES-002A 992-995	N	992	995	11.63	0.07	0.11	0.03	4.74	0.54	0.01	0.188
		FD	992	995	11.91	0.07	0.12	0.09	4.89	0.55	0.01	0.19
RES-005I	RES-005I 1011.88-1012.45	N	1011.88	1012.45	14.02	0.03	3.71	0.03	10.18	4.79	0.28	0.2
	RES-005I 1322.73-1323.23	N	1322.73	1323.23	8.66	0.01	11.65	0.03	7.19	3.89	0.33	0.149
	RES-005I 1353-1353.49	N	1353	1353.49	8.64	0.02	8.63	0.03	7.99	4.38	0.26	0.175
	RES-005I 1360.5-1361.51	N	1360.5	1361.51	11.44	0.03	4.48	0.04	7.69	4.08	0.19	0.196
	RES-005I 1370.93-1374	N	1370.93	1374	8.53	0.04	0.19	0.01	7.09	0.38	0.01	0.154
	RES-005I 1380-1383	N	1380	1383	5.22	0.03	0.41	<0.01	15.16	0.21	0.01	0.268
	RES-005I 1389-1391.57	N	1389	1391.57	3.82	0.02	0.21	<0.01	7.14	0.11	0.01	0.195
	RES-005I 1396.3-1399.3	N	1396.3	1399.3	5	0.01	0.49	<0.01	26.02	0.09	0.01	0.156
	RES-005I 1405-1406.67	N	1405	1406.67	3.54	0.04	0.26	<0.01	14.35	0.13	0.01	0.4
	RES-005I 1410.18-1413.18	N	1410.18	1413.18	2.47	0.29	0.04	<0.01	16.26	0.11	0.01	0.115
	RES-005I 1419.18-1422.18	N	1419.18	1422.18	1.59	0.25	0.12	0.06	22.69	0.08	0.01	0.252
	RES-005I 1425.5-1426.51	N	1425.5	1426.51	1.54	0.25	0.11	0.06	22.49	0.08	0.01	0.247
	RES-005I 1428.18-1431.18	N	1428.18	1431.18	0.95	0.15	0.06	<0.01	15.1	0.08	0.01	0.137
	RES-005I 1437.13-1440.13	N	1437.13	1440.13	3.4	0.05	0.07	<0.01	8.79	0.18	0.01	0.131
	RES-005I 1446.13-1449.13	N	1446.13	1449.13	8.59	0.08	0.13	0.06	4.07	0.37	<0.01	0.215
	RES-005I 1455.13-1458.13	N	1455.13	1458.13	10.42	0.05	0.07	<0.01	5.24	0.37	0.01	0.159
	RES-005I 1464.13-1467.13	N	1464.13	1467.13	9.89	0.04	0.1	<0.01	5	0.35	0.01	0.148
	RES-005I 1473.13-1476.13	N	1473.13	1476.13	7.47	0.13	0.09	<0.01	7.44	0.23	0.01	0.073
	RES-005I 1481-1482.66	N	1481	1482.66	5.48	0.01	0.06	0.06	8.35	0.19	<0.01	0.113
	RES-005I 1485.5-1486.51	N	1485.5	1486.51	5.58	0.02	0.07	0.06	8.35	0.2	0.01	0.114
	RES-005I 1487.1-1490.1	N	1487.1	1490.1	12.1	0.42	0.08	<0.01	3.82	0.5	0.01	0.1
	RES-005I 1490.1-1493.1	N	1490.1	1493.1	12.35	0.09	0.08	0.03	6.13	0.52	0.01	0.109
	RES-005I 1499-1502	N	1499	1502	14.1	0.05	0.08	<0.01	3.64	0.69	0.01	0.125
	RES-005I 1506.56-1509.47	N	1506.56	1509.47	12.69	0.05	0.16	<0.01	3.08	0.57	0.01	0.186
	RES-005I 1515.47-1518.47	N	1515.47	1518.47	14.07	0.05	0.11	<0.01	2.52	0.56	0.01	0.115
	RES-005I 1524.47-1527.47	N	1524.47	1527.47	12.98	0.08	0.03	<0.01	4.43	0.47	0.01	0.076
	RES-005I 1532.98-1534.97	N	1532.98	1534.97	13.76	0.05	0.15	<0.01	1.91	0.51	0.01	0.097
	RES-005I 1544-1546.55	N	1544	1546.55	6.74	0.05	0.06	<0.01	4.17	0.23	0.01	0.163
	RES-005I 1552.55-1555.58	N	1552.55	1555.58	10.26	0.03	0.06	<0.01	6.35	0.39	0.01	0.109
	RES-005I 1559.46-1562.46	N	1559.46	1562.46	11.48	0.04	0.04	<0.01	4.72	0.43	0.01	0.083
	RES-005I 1568.46-1571.46	N	1568.46	1571.46	12.83	0.04	0.04	<0.01	5.19	0.48	0.01	0.098
	RES-005I 1577.46-1580.46	N	1577.46	1580.46	9.41	0.03	0.04	0.05	5.78	0.38	0.01	0.092
		FD	1577.46	1580.46	9.28	0.03	0.04	0.06	5.61	0.37	<0.01	0.092
	RES-005I 1586.46-1589.46	N	1586.46	1589.46	11.86	0.06	0.04	<0.01	5.24	0.46	0.01	0.088
	RES-005I 1595.46-1598.46	N	1595.46	1598.46	12.26	0.05	0.06	<0.01	4.18	0.46	0.01	0.119
	RES-005I 1604.46-1607.46	N	1604.46	1607.46	13.04	0.05	0.05	0.02	2.13	0.53	0.01	0.112
	RES-005I 1613.46-1616.46	N	1613.46	1616.46	13.76	0.05	0.05	0.05	2.91	0.53	<0.01	0.121
	RES-005I 1616.46-1619	N	1616.46	1619	14.34	0.04	0.06	<0.01	2.08	0.52	0.01	0.139

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		ALS							
					Aluminum Oxide	Barium Oxide	Calcium Oxide	Chromium Oxide	Iron Oxide	Magnesium Oxide	Manganese Oxide	Phosphorus Pentoxide
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%	%	%
RES-005I	RES-005I 1626.54-1627.16	N	1626.54	1627.16	4.16	0.05	0.04	<0.01	12.74	0.19	0.01	0.134
	RES-005I 1627.16-1630	N	1627.16	1630	13.57	0.05	0.02	0.05	3.4	0.53	<0.01	0.089
	RES-005I 1630.5-1631.5	N	1630.5	1631.5	13.31	0.05	0.02	0.06	3.4	0.52	0.01	0.086
	RES-005I 1632.56-1635.56	N	1632.56	1635.56	14.22	0.06	0.02	<0.01	6.44	0.53	0.01	0.072
	RES-005I 1638.37-1641	N	1638.37	1641	14.08	0.04	0.02	<0.01	6.98	0.65	<0.01	0.083
	RES-005I 1645.84-1648.08	N	1645.84	1648.08	13.48	0.05	0.05	<0.01	4.52	0.56	0.01	0.101
	RES-005I 1652-1654.93	N	1652	1654.93	12.62	0.03	0.04	<0.01	7.02	0.53	0.01	0.079
	RES-005I 1654.93-1657.3	N	1654.93	1657.3	10.3	0.05	0.09	<0.01	7.77	0.42	0.01	0.138
	RES-005I 1677.8-1680.8	N	1677.8	1680.8	14.06	0.04	0.03	0.05	6.19	0.59	0.01	0.106
	RES-005I 1695.23-1697.23	N	1695.23	1697.23	15.01	0.08	0.03	<0.01	4.32	0.63	0.01	0.116
	RES-005I 1711.23-1713.23	N	1711.23	1713.23	12.29	0.03	0.01	<0.01	7.07	0.51	0.01	0.063
	RES-005I 1727.23-1729.23	N	1727.23	1729.23	13.83	0.07	0.08	0.06	4.11	0.54	<0.01	0.09
	RES-005I 1730.5-1731.5	N	1730.5	1731.5	13.61	0.07	0.07	0.05	3.96	0.54	<0.01	0.089
	RES-005I 1743.23-1745.23	N	1743.23	1745.23	11.98	0.04	0.02	<0.01	5.55	0.47	<0.01	0.082
	RES-005I 1759.23-1761.23	N	1759.23	1761.23	12.65	0.06	0.03	<0.01	6.54	0.56	<0.01	0.08
	RES-005I 1775.23-1778.23	N	1775.23	1778.23	14.02	0.08	0.03	<0.01	5.59	0.53	0.01	0.095
	RES-005I 1794.36-1796.3	N	1794.36	1796.3	12.7	0.06	0.07	<0.01	6.49	0.62	0.01	0.107
	RES-005I 1811.3-1814.3	N	1811.3	1814.3	13.29	0.06	0.02	0.05	6.61	0.62	<0.01	0.082
	RES-005I 1830.5-1831.5	N	1830.5	1831.5	13.31	0.06	0.02	0.05	6.78	0.64	<0.01	0.08
	RES-005I 1835.3-1838.3	N	1835.3	1838.3	13.84	0.07	0.01	<0.01	6.3	0.65	0.01	0.081
	RES-005I 1855.91-1858.91	N	1855.91	1858.91	15.33	0.07	0.05	<0.01	4.79	0.71	0.01	0.111
	RES-005I 1872.9-1875.38	N	1872.9	1875.38	13.95	0.07	0.04	<0.01	5.49	0.73	0.01	0.112
	RES-005I 1875.38-187	N	1875.38	1878.2	11.45	0.03	0.04	0.06	6.6	0.65	<0.01	0.121
	RES-005I 1884-1887	N	1884	1887	14.4	0.02	0.79	0.01	10.57	2.7	0.03	0.586
	RES-005I 1895-1897.0	N	1895	1897.06	10.56	0.03	0.06	<0.01	4.8	0.55	0.01	0.054
	RES-005I 1901.49-190	N	1901.49	1902.36	12.09	0.05	0.15	<0.01	7.43	0.63	0.01	0.122
	RES-005I 1917.29-191	N	1917.29	1919.1	15.4	0.02	0.48	0.01	9.77	4.93	0.03	0.324
	RES-005I 1923.1-1925	N	1923.1	1925.3	15.73	0.01	0.55	0.02	12.89	4.39	0.04	0.375
	RES-005I 1955.06-195	N	1955.06	1958.06	17.33	<0.01	0.51	0.04	11.34	7.41	0.12	0.27
	RES-005I 1960.5-1961	N	1960.5	1961.5	17.25	0.01	0.52	0.04	11.4	7.36	0.13	0.275
	RES-005I 1979.06-198	N	1979.06	1982.06	17.16	<0.01	0.6	0.02	11.59	8.44	0.11	0.233
	RES-005I 2008.11-201	N	2008.11	2011.11	17.12	0.02	1.06	0.01	10.27	6.91	0.1	0.327
	RES-005I 2032.11-203	N	2032.11	2035.11	17.19	0.03	0.76	0.01	12.11	5.29	0.1	0.386
	RES-005I 2049.84-205	N	2049.84	2052.84	13.85	0.1	0.17	<0.01	3.26	1	0.02	0.148
	RES-005I 2061.84-206	N	2061.84	2064.84	13.02	0.07	0.14	<0.01	4.55	1.1	0.01	0.118
RES-005J	RES-005J 1660.4-1668	N	1660.4	1668.47	12.16	0.04	0.02	0.07	6.04	0.48	0.01	0.07
RES-006D	RES-006D 1247.48-1250.48	N	1247.48	1250.48	18.36	0.03	3.78	<0.01	9.03	3.3	0.27	0.163
	RES-006D 1405.47-1408.44	N	1405.47	1408.44	16.75	0.06	0.99	0.03	7.31	2.56	0.15	0.304
	RES-006D 1450.44-1453.44	N	1450.44	1453.44	14.51	0.03	1.67	0.05	14.45	3.13	0.17	0.307
	RES-006D 1495.44-1498.44	N	1495.44	1498.44	12.55	0.04	0.98	<0.01	14.07	4.86	0.22	0.254
	RES-006D 1532.81-1535.81	N	1532.81	1535.81	15.8	0.03	0.62	<0.01	10.82	2.48	0.07	0.334
	RES-006D 1577.43-1580.43	N	1577.43	1580.43	17.8	0.06	1.19	0.03	9.22	2.81	0.16	0.261
	RES-006D 1600.5-1601.5	N	1600.5	1601.5	17.91	0.06	1.18	0.02	9.31	2.82	0.15	0.262
	RES-006D 1622.43-1625.43	N	1622.43	1625.43	16.23	0.05	0.33	<0.01	10.64	2.59	0.05	0.218
	RES-006D 1667.43-1670.43	N	1667.43	1670.43	16.43	0.04	0.3	0.05	7.96	1.33	0.01	0.212
	RES-006D 1705.4-1708.4	N	1705.4	1708.4	12.84	0.02	0.17	0.07	15.54	1.58	<0.01	0.098
	RES-006D 1750.4-1753.4	N	1750.4	1753.4	14.06	0.04	0.2	0.08	14.78	0.83	<0.01	0.161
	RES-006D 1798.4-1801.4	N	1798.4	1801.4	12.68	0.02	0.21	0.07	13.92	1.3	<0.01	0.106

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		ALS							
					Aluminum Oxide	Barium Oxide	Calcium Oxide	Chromium Oxide	Iron Oxide	Magnesium Oxide	Manganese Oxide	Phosphorus Pentoxide
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%	%	%
RES-006D	RES-006D 1843.4-1846.4	N	1843.4	1846.4	13.42	0.04	0.14	0.09	14.7	0.52	<0.01	0.181
	RES-006D 1898.21-1901.09	N	1898.21	1901.09	11.88	0.01	0.22	<0.01	8.18	0.35	0.01	0.122
	RES-006D 1927.23-1930.23	N	1927.23	1930.23	10.87	0.01	0.11	0.07	7.17	0.24	0.01	0.145
		FD	1927.23	1930.23	11.03	0.01	0.12	0.06	7.08	0.24	0.01	0.149
	RES-006D 1952.56-1954.83	N	1952.56	1954.83	2.83	<0.01	0.03	<0.01	3.15	0.15	0.01	0.05
	RES-006D 1954.83-197	N	1954.83	1972	9.23	0.01	0.09	0.11	5.29	0.4	0.01	0.102
	RES-006D 1980.6-1983.6	N	1980.6	1983.6	7.45	<0.01	0.14	0.01	16.95	0.4	0.01	0.14
	RES-006D 1995.6-1998.6	N	1995.6	1998.6	7.63	<0.01	0.39	0.01	14.72	0.3	0.01	0.221
	RES-006D 2022.66-2025.66	N	2022.66	2025.66	15.19	0.01	0.39	0.02	8.67	1.71	0.02	0.259
	RES-006D 2040.66-2043.66	N	2040.66	2043.66	12.5	0.01	0.3	0.01	13.18	0.68	0.01	0.26
	RES-006D 2058.16-2061.16	N	2058.16	2061.16	16.15	0.02	0.94	0.01	9.93	5.72	0.04	0.355
	RES-006D 2073.13-2076.13	N	2073.13	2076.13	14.6	0.02	0.69	0.07	12.69	4.84	0.06	0.335
		FD	2073.13	2076.13	14.96	0.02	0.7	0.06	12.67	4.88	0.06	0.337
	RES-006D 2091.13-2094.13	N	2091.13	2094.13	16.69	0.03	0.78	0.01	8.14	6.6	0.07	0.371
	RES-006D 2115.47-2118.47	N	2115.47	2118.47	10.25	0.01	0.28	0.08	6.22	0.52	0.01	0.082
	RES-006D 2125.45-2128.42	N	2125.45	2128.42	11.4	0.03	0.14	<0.01	4.96	0.61	0.01	0.102
	RES-006D 2137.08-2138.5	N	2137.08	2138.5	12.83	0.12	0.63	<0.01	13.91	0.15	<0.01	0.465
RES-009	RES-009 1012.16-1014.16	N	1012.16	1014.16	15.86	0.12	0.42	0.05	3.52	0.85	0.1	0.099
	RES-009 1027.38-1030.3	N	1027.38	1030.3	15.49	0.11	1.25	0.05	2.91	0.75	0.16	0.143
	RES-009 1045.3-1048.3	N	1045.3	1048.3	15.72	0.11	0.42	0.04	2.63	0.98	0.05	0.078
	RES-009 105.16-105.73	N	105.16	105.73	15.25	0.12	2.35	0.03	3.06	1	0.09	0.137
	RES-009 1063.3-1066.3	N	1063.3	1066.3	15.62	0.1	0.52	0.05	2.83	0.99	0.04	0.108
	RES-009 1081.3-1084.3	N	1081.3	1084.3	15.19	0.12	0.47	0.07	2.93	0.91	0.03	0.111
	RES-009 1098.34-1100.96	N	1098.34	1100.96	15.3	0.11	0.55	0.06	3.01	1.24	0.03	0.115
	RES-009 199.18-199.78	N	199.18	199.78	15.36	0.12	2.36	0.02	2.99	1.02	0.09	0.132
	RES-009 199.78-200.3	N	199.78	200.3	15.19	0.11	2.36	0.02	2.97	1.03	0.09	0.131
	RES-009 281.14-281.64	N	281.14	281.64	15.48	0.11	2.39	0.02	2.98	1.12	0.08	0.132
	RES-009 348.3-348.83	N	348.3	348.83	15.65	0.11	2.44	0.05	3.19	0.86	0.1	0.135
	RES-009 447.23-447.8	N	447.23	447.8	13.86	0.08	5.61	0.03	6.18	3.2	0.1	0.198
	RES-009 485.12-485.71	N	485.12	485.71	12.16	0.04	10.75	0.04	6.36	3.28	0.15	0.192
	RES-009 557.06-557.56	N	557.06	557.56	20.38	0.08	1.22	0.01	7	2.81	0.08	0.209
	RES-009 647.52-648.1	N	647.52	648.1	14.69	0.03	4.75	0.03	9.91	3.97	0.17	0.221
	RES-009 7.43-7.96	N	7.43	7.96	15.67	0.12	2.03	0.03	3.07	0.66	0.09	0.129
	RES-009 718-718.58	N	718	718.58	20.11	0.05	0.71	0.06	23.32	1.29	0.05	0.513
	RES-009 810.42-810.98	N	810.42	810.98	12.82	0.03	7.28	0.03	11.21	5.91	0.23	0.294
	RES-009 906.08-906.58	N	906.08	906.58	12.7	0.03	6.62	0.04	8.41	4.46	0.22	0.183
	RES-009 987.9-988.45	N	987.9	988.45	10.89	0.02	0.8	0.04	14.44	1.58	0.08	0.182
	RES-009 994.67-997.67	N	994.67	997.67	15.72	0.11	0.42	0.05	3.73	0.9	0.09	0.098
RES-009D	RES-009D 1119.32-1122.42	N	1119.32	1122.42	14.67	0.08	0.5	0.04	3.19	0.85	0.02	0.102
		FD	1119.32	1122.42	14.55	0.08	0.5	0.04	3.11	0.86	0.02	0.103
	RES-009D 1128.62-1131.72	N	1128.62	1131.72	14.37	0.05	0.57	0.04	3.19	1.37	0.05	0.107
RES-009E	RES-009E 1307.1-1310.1	N	1307.1	1310.1	12.5	0.04	0.08	<0.01	15.05	0.67	<0.01	0.108
	RES-009E 1319.1-1322.1	N	1319.1	1322.1	14.6	0.06	0.04	<0.01	5.18	0.95	0.01	0.091
	RES-009E 1335.41-1338.16	N	1335.41	1338.16	14.12	0.02	0.06	<0.01	7.2	0.63	0.01	0.116
	RES-009E 1351.03-1354.03	N	1351.03	1354.03	15.26	0.06	0.05	<0.01	7.02	0.76	<0.01	0.099
	RES-009E 1368.07-1370.69	N	1368.07	1370.69	13.33	0.05	0.08	<0.01	12.59	0.59	0.01	0.139
	RES-009E 1385.61-1388.61	N	1385.61	1388.61	13.09	0.05	0.05	0.01	9.91	0.62	0.01	0.085
	RES-009E 1402.22-1404.53	N	1402.22	1404.53	13.83	0.05	0.06	0.06	7.62	0.74	<0.01	0.087

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		ALS							
					Aluminum Oxide	Barium Oxide	Calcium Oxide	Chromium Oxide	Iron Oxide	Magnesium Oxide	Manganese Oxide	Phosphorus Pentoxide
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%	%	%
	RES-009E 1410.5-1411.5	N	1410.5	1411.5	13.49	0.05	0.06	0.06	7.44	0.72	<0.01	0.085
	RES-009E 1418.16-1419.8	N	1418.16	1419.8	14.15	0.06	0.08	0.01	9.6	0.72	0.01	0.113
	RES-009E 1431.42-1433.8	N	1431.42	1433.8	12.8	0.05	0.11	0.05	9.62	0.49	<0.01	0.156
	RES-009E 1446.41-1449.41	N	1446.41	1449.41	16.73	0.04	0.13	0.01	14.31	0.79	<0.01	0.267
	RES-009E 1464.41-1467.41	N	1464.41	1467.41	16.37	0.05	0.19	0.01	11.9	0.91	<0.01	0.311
	RES-009E 1478.13-1481.13	N	1478.13	1481.13	15.29	0.04	0.11	0.01	13.04	0.89	0.01	0.19
	RES-009E 1496.13-1499.13	N	1496.13	1499.13	13.27	0.02	0.23	<0.01	13.96	0.72	0.01	0.269
	RES-009E 1510.74-1527.19	N	1510.74	1527.19	13.96	0.04	0.18	0.08	13.75	0.71	0.01	0.195
	RES-009E 1514.13-1517.13	N	1514.13	1517.13	14.59	0.04	0.1	<0.01	13.4	0.76	0.01	0.147
	RES-009E 1532.4-1534.49	N	1532.4	1534.49	13.12	0.03	0.19	0.05	14.68	0.59	<0.01	0.177
	RES-009E 1540.5-1541.5	N	1540.5	1541.5	13.11	0.03	0.19	0.05	14.39	0.58	<0.01	0.175
	RES-009E 1547.47-1550.47	N	1547.47	1550.47	9.75	0.02	0.26	0.01	13.37	0.72	0.01	0.148
	RES-009E 1565.47-1568.47	N	1565.47	1568.47	11.75	0.02	0.08	<0.01	17.73	0.63	0.01	0.08
	RES-009E 1597.32-1599.88	N	1597.32	1599.88	11.45	0.02	0.17	<0.01	20.43	0.12	<0.01	0.263
	RES-009E 1602.44-1605	N	1602.44	1605	14.45	0.04	0.17	<0.01	15.02	0.26	<0.01	0.29
	RES-009E 1617.38-1619.14	N	1617.38	1619.14	15.44	0.04	0.4	0.02	6.59	1.3	0.02	0.201
	RES-009E 1634.46-1637.47	N	1634.46	1637.47	13.64	0.03	0.16	<0.01	11.3	0.72	0.01	0.181
	RES-009E 1650.14-1652.81	N	1650.14	1652.81	10.93	0.01	0.21	0.02	12.89	0.2	0.01	0.202
		FD	1650.14	1652.81	10.99	0.01	0.22	0.02	13	0.19	0.01	0.202
	RES-009E 1669.07-1672.07	N	1669.07	1672.07	17.98	0.09	0.08	<0.01	6.64	0.91	<0.01	0.169
	RES-009E 1685.09-1687.47	N	1685.09	1687.47	13.88	0.06	0.08	0.04	4.29	0.74	<0.01	0.146
	RES-009E 1697.61-1700.61	N	1697.61	1700.61	13.83	0.08	0.09	0.01	7.49	0.65	0.01	0.168
	RES-009E 1718.61-1721.61	N	1718.61	1721.61	12.55	0.05	0.05	<0.01	5.22	0.49	0.01	0.152
	RES-009E 1739.63-1742.63	N	1739.63	1742.63	5.01	<0.01	0.04	<0.01	4.08	0.05	0.01	0.07
	RES-009E 1760.86-1763.86	N	1760.86	1763.86	8.76	0.01	0.08	0.03	3.69	0.33	<0.01	0.115
		FD	1760.86	1763.86	8.71	0.02	0.09	0.03	3.7	0.33	0.01	0.115
	RES-009E 1789.83-1792.31	N	1789.83	1792.31	10.3	0.01	0.3	0.01	4.93	0.46	0.01	0.077
	RES-009E 1798.16-1799.79	N	1798.16	1799.79	7.91	<0.01	0.14	<0.01	6.17	0.35	0.01	0.088
	RES-009E 1801.42-1804.15	N	1801.42	1804.15	8.63	<0.01	0.12	0.01	13.9	0.32	0.01	0.092
	RES-009E 1818.62-1821.62	N	1818.62	1821.62	7.94	<0.01	0.92	0.01	15.92	0.9	0.03	0.15
	RES-009E 1829.95-1832.48	N	1829.95	1832.48	4.93	<0.01	0.79	0.01	18.51	2.87	0.08	0.114
	RES-009E 1846.66-1849.66	N	1846.66	1849.66	3.85	<0.01	5.2	0.01	24.32	2.18	0.14	0.163
	RES-009E 1862.15-1865.15	N	1862.15	1865.15	3.16	<0.01	15.07	0.01	18.74	2.58	0.34	0.159
	RES-009E 1867.87-188	N	1867.87	1884.35	2.46	<0.01	20.68	0.07	17.83	2.48	0.36	0.19
	RES-009E 1880.15-1882.37	N	1880.15	1882.37	1.64	<0.01	19.94	0.03	16.77	2.14	0.33	0.177
	RES-009E 1885.5-1886.5	N	1885.5	1886.5	1.57	<0.01	19.5	0.02	16.59	2.03	0.32	0.168
	RES-009E 1899-1901.88	N	1899	1901.88	5.51	0.01	4.09	0.01	12.76	1.99	0.09	0.073
	RES-009E 1929.76-1932.58	N	1929.76	1932.58	1.13	<0.01	8.27	<0.01	20.52	1.06	0.18	0.06
	RES-009E 1947.67-1950.67	N	1947.67	1950.67	7.05	<0.01	5.34	<0.01	10.25	8.08	0.07	0.161
	RES-009E 1954.6-1956	N	1954.6	1956	7.13	0.02	3.42	<0.01	6.49	5.83	0.06	0.163
	RES-009E 1967.76-1969.72	N	1967.76	1969.72	13.35	0.06	0.27	<0.01	3.51	2.13	0.02	0.136
	RES-009E 1974.78-1977.89	N	1974.78	1977.89	2.99	<0.01	18.94	<0.01	9.48	16.79	0.23	0.101
	RES-009E 1984.74-1987.74	N	1984.74	1987.74	0.43	<0.01	1.22	<0.01	3.78	0.06	0.01	0.018
	RES-009E 2056.38-207	N	2056.38	2075	12.24	0.02	4.15	0.09	7.4	4.36	0.03	0.244

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		Potassium Oxide	Sodium Oxide	Strontium Oxide	Titanium Dioxide	Total Metals by XRF	Loss On Ignition
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%
RES-001C	RES-001C 1502-1505	N	1502	1505	4.76	0.14	0.02	0.56	99.67	5.24
	RES-001C 1530-1533	N	1530	1533	5.22	0.56	0.02	0.5	99.68	4.6
	RES-001C 1557-1560	N	1557	1560	4.5	0.73	0.01	0.46	99.49	5.26
	RES-001C 1584-1587	N	1584	1587	4.91	0.66	0.02	0.5	99.61	4.69
		FD	1584	1587	4.86	0.66	0.02	0.5	99.42	4.87
	RES-001C 1611-1614	N	1611	1614	4.24	0.42	0.02	0.46	98.88	4.76
	RES-001C 1639-1642	N	1639	1642	4.5	0.47	0.02	0.44	99.33	5.1
	RES-001C 1666-1669	N	1666	1669	4.73	0.39	0.01	0.5	98.93	4.72
	RES-001C 1693-1696	N	1693	1696	5.05	0.2	0.01	0.46	99.94	4.42
	RES-001C 1711-1714.96	N	1711	1714.96	4.55	1.76	0.03	0.88	99.77	6.09
	RES-001C 1745-1748	N	1745	1748	3.89	1.48	0.03	0.82	98.41	4.25
	RES-001C 1771.75-1791.4	N	1771.75	1791.4	0.21	<0.01	<0.01	0.09	92.79	3.83
	RES-001C 1781-1784	N	1781	1784	0.28	<0.01	0.01	0.11	98.12	3.37
	RES-001C 1799-1802	N	1799	1802	0.04	<0.01	<0.01	0.1	90.68	8.7
		FD	1799	1802	0.04	<0.01	<0.01	0.1	91	8.88
	RES-001C 1814-1817	N	1814	1817	2.66	0.2	0.01	0.74	99.87	7.74
	RES-001C 1837-1840	N	1837	1840	1.48	0.12	0.01	0.37	98.25	5.58
	RES-001C 1855-1858	N	1855	1858	0.35	0.01	0.01	0.21	98.34	4.76
	RES-001C 1873-1876	N	1873	1876	2.8	<0.01	0.01	0.42	95.96	8.68
	RES-001C 1892.5-1895	N	1892.5	1895	0.77	<0.01	0.01	0.15	93.7	7.27
	RES-001C 1934-1937	N	1934	1937	0.53	<0.01	0.01	0.29	99.12	2.07
	RES-001C 1987-1990	N	1987	1990	4.78	<0.01	<0.01	1.94	98.46	4.43
	RES-001C 2007-2010	N	2007	2010	5.29	<0.01	0.01	1.84	97.96	4.35
		FD	2007	2010	5.28	<0.01	0.01	1.84	97.65	4.27
	RES-001C 2041-2044	N	2041	2044	4.56	<0.01	0.02	1.59	97.46	6.13
	RES-001C 2115-2118	N	2115	2118	1.78	<0.01	<0.01	0.81	89.95	9.29
	RES-001C 2164.4-2166.3	N	2164.4	2166.3	<0.01	0.05	0.02	0.03	97.6	29.5
	RES-001C 2214-2215	N	2214	2215	0.09	<0.01	<0.01	0.02	95.58	6.66
	RES-001C 2242-2244	N	2242	2244	3.13	<0.01	0.01	3.7	97.27	10.05
RES-002A	RES-002A 1007-1010	N	1007	1010	3.69	0.06	0.03	0.51	99.83	2.27
	RES-002A 1058-1061	N	1058	1061	4.1	0.1	0.05	0.56	99.6	3.5
	RES-002A 1109-1112	N	1109	1112	3.17	0.06	0.04	0.55	98.91	4.29
	RES-002A 1154-1156	N	1154	1156	4	0.08	0.02	0.46	99.54	4.15
	RES-002A 1201-1203	N	1201	1203	1.92	0.07	0.04	0.42	99.25	14.85
		FD	1201	1203	1.92	0.07	0.04	0.39	99.28	15.1
	RES-002A 1246-1249	N	1246	1249	0.97	0.05	0.05	0.46	99.22	8.59
	RES-002A 1291-1292	N	1291	1292	1.13	0.07	0.03	0.37	99.75	12.2
	RES-002A 1325-1328	N	1325	1328	1.8	0.05	0.08	0.4	99.22	10.05
	RES-002A 1363-1366	N	1363	1366	1.74	0.06	0.04	0.45	99.78	8.6
	RES-002A 1395-1397	N	1395	1397	0.7	0.05	0.02	0.22	99.74	10.7
	RES-002A 1414.6-1417	N	1414.6	1417	3.79	0.08	0.02	0.41	99.8	6.79
	RES-002A 1454-1457	N	1454	1457	3.53	0.12	0.05	0.53	97.84	7.56
	RES-002A 1538-1541	N	1538	1541	4.31	0.14	0.03	0.31	98.14	4.31
	RES-002A 1583-1586	N	1583	1586	4.24	0.16	0.02	0.31	97.42	3.94
	RES-002A 1627-1630	N	1627	1630	3.82	0.11	0.04	0.34	98.04	3.83
	RES-002A 1732-1735	N	1732	1735	5.95	0.18	0.01	2.15	98.44	4.09
		FD	1732	1735	5.91	0.18	0.01	2.16	97.53	4.07
	RES-002A 1781-1784	N	1781	1784	2.68	0.07	0.02	0.39	98.25	3.51

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		Potassium Oxide	Sodium Oxide	Strontium Oxide	Titanium Dioxide	Total Metals by XRF	Loss On Ignition
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%
RES-002A	RES-002A 1814-1817	N	1814	1817	1.95	0.07	0.01	0.26	99.19	2.78
	RES-002A 1876-1879	N	1876	1879	4.1	0.16	0.01	1.51	96.18	8.67
	RES-002A 1927-1930	N	1927	1930	3.63	0.84	0.02	1.49	97.13	8.08
	RES-002A 1981-1984	N	1981	1984	5.16	0.37	0.02	1.44	97.68	8.11
	RES-002A 858-861	N	858	861	7.43	0.16	0.04	0.5	100	3
	RES-002A 888-891	N	888	891	3.47	0.08	0.02	0.57	99.78	2.48
	RES-002A 927-930	N	927	930	4.41	0.07	0.02	0.4	99.97	2.62
	RES-002A 965-968	N	965	968	4.2	0.11	0.02	0.45	97.45	3.57
	RES-002A 992-995	N	992	995	2.99	0.06	0.04	0.5	99.72	3.31
		FD	992	995	3.06	0.08	0.04	0.52	99.8	3.29
RES-005I	RES-005I 1011.88-1012.45	N	1011.88	1012.45	2.82	1.02	0.02	1.39	99.92	5.12
	RES-005I 1322.73-1323.23	N	1322.73	1323.23	2.39	0.06	<0.01	0.94	98.72	13.05
	RES-005I 1353-1353.49	N	1353	1353.49	2.81	0.08	0.01	1.05	99.56	9.85
	RES-005I 1360.5-1361.51	N	1360.5	1361.51	3.86	0.12	0.01	1.28	99.84	6.74
	RES-005I 1370.93-1374	N	1370.93	1374	2.3	0.06	0.02	0.73	99.82	1.65
	RES-005I 1380-1383	N	1380	1383	1.16	0.04	0.06	0.87	98.85	1.56
	RES-005I 1389-1391.57	N	1389	1391.57	0.49	0.03	0.05	0.77	99.27	1.38
	RES-005I 1396.3-1399.3	N	1396.3	1399.3	0.3	0.03	0.01	0.64	99.8	1.49
	RES-005I 1405-1406.67	N	1405	1406.67	0.6	0.04	0.04	0.73	98.22	1.33
	RES-005I 1410.18-1413.18	N	1410.18	1413.18	0.49	0.03	0.03	0.73	99.77	0.95
	RES-005I 1419.18-1422.18	N	1419.18	1422.18	0.31	0.03	0.04	0.65	99.9	0.85
	RES-005I 1425.5-1426.51	N	1425.5	1426.51	0.31	0.05	0.04	0.61	99.34	0.92
	RES-005I 1428.18-1431.18	N	1428.18	1431.18	0.17	0.03	0.04	0.82	99.91	0.46
	RES-005I 1437.13-1440.13	N	1437.13	1440.13	0.95	0.04	0.03	0.75	99.93	0.77
	RES-005I 1446.13-1449.13	N	1446.13	1449.13	2.37	0.07	0.04	0.51	99.61	1.64
	RES-005I 1455.13-1458.13	N	1455.13	1458.13	2.92	0.08	0.04	0.46	99.72	1.77
	RES-005I 1464.13-1467.13	N	1464.13	1467.13	2.71	0.07	0.04	0.47	99.71	1.63
	RES-005I 1473.13-1476.13	N	1473.13	1476.13	2.07	0.07	0.01	0.37	99.72	1.2
	RES-005I 1481-1482.66	N	1481	1482.66	1.5	0.05	0.02	0.42	99.81	0.93
	RES-005I 1485.5-1486.51	N	1485.5	1486.51	1.53	0.05	0.02	0.4	99.87	0.97
	RES-005I 1487.1-1490.1	N	1487.1	1490.1	3.54	0.09	0.02	0.38	99.96	1.98
	RES-005I 1490.1-1493.1	N	1490.1	1493.1	3.59	0.09	0.01	0.4	99.6	1.91
	RES-005I 1499-1502	N	1499	1502	4.21	0.11	0.02	0.43	99.8	2.26
	RES-005I 1506.56-1509.47	N	1506.56	1509.47	3.7	0.09	0.02	1	99.6	2.15
	RES-005I 1515.47-1518.47	N	1515.47	1518.47	3.9	0.1	0.02	0.45	99.87	2.17
	RES-005I 1524.47-1527.47	N	1524.47	1527.47	3.81	0.05	0.01	0.31	98.89	1.93
	RES-005I 1532.98-1534.97	N	1532.98	1534.97	4.02	0.11	0.02	0.34	99.67	2.14
	RES-005I 1544-1546.55	N	1544	1546.55	1.54	0.06	0.08	0.35	99.79	1.44
	RES-005I 1552.55-1555.58	N	1552.55	1555.58	2.84	0.07	0.02	0.38	99.76	1.67
	RES-005I 1559.46-1562.46	N	1559.46	1562.46	3.32	0.1	0.02	0.31	99.74	1.64
	RES-005I 1568.46-1571.46	N	1568.46	1571.46	3.73	0.1	0.01	0.31	99.71	1.8
	RES-005I 1577.46-1580.46	N	1577.46	1580.46	2.72	0.08	0.03	0.35	99.61	1.38
		FD	1577.46	1580.46	2.68	0.07	0.03	0.4	99.54	1.37
	RES-005I 1586.46-1589.46	N	1586.46	1589.46	3.45	0.1	0.02	0.3	99.34	1.79
	RES-005I 1595.46-1598.46	N	1595.46	1598.46	3.6	0.1	0.02	0.34	98.46	1.86
	RES-005I 1604.46-1607.46	N	1604.46	1607.46	3.83	0.09	0.03	0.38	99.74	1.95
	RES-005I 1613.46-1616.46	N	1613.46	1616.46	4.01	0.09	0.03	0.3	99.84	1.91
	RES-005I 1616.46-1619	N	1616.46	1619	4.19	0.1	0.04	0.41	99.8	2.12

FD Field duplicate
N Normal
XRF X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		Potassium Oxide	Sodium Oxide	Strontium Oxide	Titanium Dioxide	Total Metals by XRF	Loss On Ignition
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%
RES-005I	RES-005I 1626.54-1627.16	N	1626.54	1627.16	1.12	0.04	0.05	0.16	99.82	0.8
	RES-005I 1627.16-1630	N	1627.16	1630	3.97	0.09	0.02	0.29	99.87	1.77
	RES-005I 1630.5-1631.5	N	1630.5	1631.5	3.97	0.08	0.02	0.29	99.68	1.86
	RES-005I 1632.56-1635.56	N	1632.56	1635.56	4.19	0.11	0.02	0.29	99.76	4.81
	RES-005I 1638.37-1641	N	1638.37	1641	4.29	0.06	0.03	0.66	98.76	5.5
	RES-005I 1645.84-1648.08	N	1645.84	1648.08	3.91	0.08	0.03	0.36	99.83	2.55
	RES-005I 1652-1654.93	N	1652	1654.93	3.71	0.08	0.01	0.33	99.07	5.14
	RES-005I 1654.93-1657.3	N	1654.93	1657.3	2.81	<0.01	0.05	0.31	98.23	5.52
	RES-005I 1677.8-1680.8	N	1677.8	1680.8	4.07	<0.01	0.03	0.33	98.25	5.02
	RES-005I 1695.23-1697.23	N	1695.23	1697.23	4.42	<0.01	0.02	0.49	97.3	4.12
	RES-005I 1711.23-1713.23	N	1711.23	1713.23	3.66	<0.01	0.02	0.23	96.45	5.03
	RES-005I 1727.23-1729.23	N	1727.23	1729.23	4.04	0.01	0.01	0.29	98.3	3.71
	RES-005I 1730.5-1731.5	N	1730.5	1731.5	3.92	0.04	0.02	0.28	98.25	3.69
	RES-005I 1743.23-1745.23	N	1743.23	1745.23	3.43	<0.01	0.01	0.24	96.91	5.16
	RES-005I 1759.23-1761.23	N	1759.23	1761.23	3.81	<0.01	0.02	0.26	98.22	5.58
	RES-005I 1775.23-1778.23	N	1775.23	1778.23	3.93	0.03	0.02	0.29	99.7	4.61
	RES-005I 1794.36-1796.3	N	1794.36	1796.3	3.04	0.09	0.02	0.28	99.72	5.11
	RES-005I 1811.3-1814.3	N	1811.3	1814.3	3.88	0.03	0.03	0.35	98.13	5.09
	RES-005I 1830.5-1831.5	N	1830.5	1831.5	3.92	0.02	0.02	0.36	98.25	5.14
	RES-005I 1835.3-1838.3	N	1835.3	1838.3	3.82	0.07	0.03	0.32	98.35	4.91
	RES-005I 1855.91-1858.91	N	1855.91	1858.91	3.8	0.07	0.04	0.38	99.69	4.83
	RES-005I 1872.9-1875.38	N	1872.9	1875.38	3.95	0.06	0.03	0.34	98.37	4.55
	RES-005I 1875.38-187	N	1875.38	1878.2	3.01	<0.01	0.04	0.78	98.14	5.17
	RES-005I 1884-1887	N	1884	1887	4.69	0.01	0.02	3.29	98.21	6.18
	RES-005I 1895-1897.0	N	1895	1897.06	2.94	0.05	0.01	0.55	98.21	3.68
	RES-005I 1901.49-190	N	1901.49	1902.36	3.35	0.04	0.01	0.53	98.23	5.37
	RES-005I 1917.29-191	N	1917.29	1919.1	5.44	0.02	0.01	1.97	98.37	4.91
	RES-005I 1923.1-1925	N	1923.1	1925.3	5.17	<0.01	0.01	2.07	98.21	7.06
	RES-005I 1955.06-195	N	1955.06	1958.06	5.12	0.03	<0.01	1.77	98.1	6.48
	RES-005I 1960.5-1961	N	1960.5	1961.5	5.08	0.03	<0.01	1.76	98.36	6.52
	RES-005I 1979.06-198	N	1979.06	1982.06	4.6	0.03	0.01	1.46	98.51	6.84
	RES-005I 2008.11-201	N	2008.11	2011.11	5.14	<0.01	0.01	2.05	98.18	6.03
	RES-005I 2032.11-203	N	2032.11	2035.11	5.79	0.04	0.01	2.66	98.23	5.33
	RES-005I 2049.84-205	N	2049.84	2052.84	7.31	0.16	0.02	0.4	98.23	2.21
	RES-005I 2061.84-206	N	2061.84	2064.84	4.71	0.09	0.01	0.37	98.42	3.41
RES-005J	RES-005J 1660.4-1668	N	1660.4	1668.47	3.6	<0.01	0.02	0.29	98.23	4.55
RES-006D	RES-006D 1247.48-1250.48	N	1247.48	1250.48	3.27	2.74	0.04	0.89	99.88	3.93
	RES-006D 1405.47-1408.44	N	1405.47	1408.44	7.87	0.07	0.01	0.73	99.71	3.48
	RES-006D 1450.44-1453.44	N	1450.44	1453.44	4.04	0.11	0.01	0.89	98.1	8.12
	RES-006D 1495.44-1498.44	N	1495.44	1498.44	3.9	<0.01	0.01	0.74	98.21	7.09
	RES-006D 1532.81-1535.81	N	1532.81	1535.81	4.86	0.02	0.01	0.95	99.29	6.4
	RES-006D 1577.43-1580.43	N	1577.43	1580.43	5.27	0.05	0.01	0.99	98.68	5.76
	RES-006D 1600.5-1601.5	N	1600.5	1601.5	5.26	0.05	0.01	0.99	99.24	5.79
	RES-006D 1622.43-1625.43	N	1622.43	1625.43	4.76	0.03	0.01	0.75	99.61	6.72
	RES-006D 1667.43-1670.43	N	1667.43	1670.43	5.07	0.05	<0.01	0.62	99.39	6.12
	RES-006D 1705.4-1708.4	N	1705.4	1708.4	3.78	0.04	<0.01	0.64	98.49	10.05
	RES-006D 1750.4-1753.4	N	1750.4	1753.4	4.08	0.06	0.02	0.73	99.19	9.45
	RES-006D 1798.4-1801.4	N	1798.4	1801.4	3.85	0.06	0.01	0.79	99.86	8.82

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		Potassium Oxide	Sodium Oxide	Strontium Oxide	Titanium Dioxide	Total Metals by XRF	Loss On Ignition
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%
RES-006D	RES-006D 1843.4-1846.4	N	1843.4	1846.4	3.79	0.08	0.01	0.59	99.92	9.23
	RES-006D 1898.21-1901.09	N	1898.21	1901.09	2.64	0.04	0.03	0.5	98.78	6.16
	RES-006D 1927.23-1930.23	N	1927.23	1930.23	1.4	<0.01	0.08	0.2	98.54	6.51
		FD	1927.23	1930.23	1.41	<0.01	0.08	0.19	98.4	6.59
	RES-006D 1952.56-1954.83	N	1952.56	1954.83	0.63	0.01	0.03	0.11	99.25	1.77
	RES-006D 1954.83-197	N	1954.83	1972	2.22	0.01	0.04	0.36	98.53	4.03
	RES-006D 1980.6-1983.6	N	1980.6	1983.6	1.94	0.03	0.02	0.35	98.6	9.94
	RES-006D 1995.6-1998.6	N	1995.6	1998.6	1.47	<0.01	0.02	0.29	95.55	8.67
	RES-006D 2022.66-2025.66	N	2022.66	2025.66	4.5	0.04	0.02	1.79	97.46	8.01
	RES-006D 2040.66-2043.66	N	2040.66	2043.66	3.45	0.01	0.03	1.32	97.28	5.67
	RES-006D 2058.16-2061.16	N	2058.16	2061.16	4.97	0.01	0.01	2.43	96.18	7.73
	RES-006D 2073.13-2076.13	N	2073.13	2076.13	5.17	<0.01	<0.01	2.17	95.75	7.56
		FD	2073.13	2076.13	5.28	<0.01	<0.01	2.19	97	7.48
	RES-006D 2091.13-2094.13	N	2091.13	2094.13	6.13	<0.01	0.01	2.53	97.51	5.64
	RES-006D 2115.47-2118.47	N	2115.47	2118.47	2.74	0.03	0.02	0.55	98.92	4.37
	RES-006D 2125.45-2128.42	N	2125.45	2128.42	3.28	0.04	0.02	0.64	98.24	3.86
	RES-006D 2137.08-2138.5	N	2137.08	2138.5	0.64	<0.01	0.21	0.6	98.91	12
RES-009	RES-009 1012.16-1014.16	N	1012.16	1014.16	6.85	0.52	0.02	0.32	99.72	3.67
	RES-009 1027.38-1030.3	N	1027.38	1030.3	4.85	2.42	0.06	0.32	99.43	3.91
	RES-009 1045.3-1048.3	N	1045.3	1048.3	5.12	3.12	0.06	0.34	99.62	3.05
	RES-009 105.16-105.73	N	105.16	105.73	3.51	3.8	0.05	0.54	99.31	1.39
	RES-009 1063.3-1066.3	N	1063.3	1066.3	5.75	2.67	0.04	0.33	99.7	3.15
	RES-009 1081.3-1084.3	N	1081.3	1084.3	5.51	2.9	0.04	0.31	98.85	2.98
	RES-009 1098.34-1100.96	N	1098.34	1100.96	6.4	2.23	0.04	0.32	99.73	3.62
	RES-009 199.18-199.78	N	199.18	199.78	3.57	3.89	0.05	0.51	99.81	1.39
	RES-009 199.78-200.3	N	199.78	200.3	3.54	3.82	0.05	0.54	98.75	1.42
	RES-009 281.14-281.64	N	281.14	281.64	3.49	3.5	0.07	0.54	99.69	2.48
	RES-009 348.3-348.83	N	348.3	348.83	3.56	4.12	0.05	0.56	99.8	0.55
	RES-009 447.23-447.8	N	447.23	447.8	2.9	2.21	0.06	0.97	99.16	5.65
	RES-009 485.12-485.71	N	485.12	485.71	2.32	1.84	0.05	1.03	99.89	8.67
	RES-009 557.06-557.56	N	557.06	557.56	4.62	0.83	0.02	0.5	98.6	8.78
	RES-009 647.52-648.1	N	647.52	648.1	2.4	1.66	0.02	1.66	99.48	7.1
	RES-009 7.43-7.96	N	7.43	7.96	3.71	3.63	0.05	0.53	99.89	1.6
	RES-009 718-718.58	N	718	718.58	7.29	0.3	0.03	2.11	199.27	5.57
	RES-009 810.42-810.98	N	810.42	810.98	1.88	1.23	0.03	1.59	99.73	8.17
	RES-009 906.08-906.58	N	906.08	906.58	2.52	0.97	0.02	1.3	99.18	7.35
	RES-009 987.9-988.45	N	987.9	988.45	2.33	0.14	0.01	1.49	99.43	4.21
	RES-009 994.67-997.67	N	994.67	997.67	6.8	0.16	0.02	0.35	99.68	3.86
RES-009D	RES-009D 1119.32-1122.42	N	1119.32	1122.42	4.5	3.57	0.04	0.38	99.34	2.79
		FD	1119.32	1122.42	4.48	3.58	0.04	0.44	98.66	2.7
	RES-009D 1128.62-1131.72	N	1128.62	1131.72	3.92	4.22	0.04	0.44	99.24	2.2
RES-009E	RES-009E 1307.1-1310.1	N	1307.1	1310.1	3.61	<0.01	0.02	0.43	98.23	9.7
	RES-009E 1319.1-1322.1	N	1319.1	1322.1	4.53	0.03	0.02	0.53	99.28	4.61
	RES-009E 1335.41-1338.16	N	1335.41	1338.16	4.08	0.05	0.02	0.45	98.5	5.79
	RES-009E 1351.03-1354.03	N	1351.03	1354.03	4.47	0.03	0.02	0.42	98.83	5.85
	RES-009E 1368.07-1370.69	N	1368.07	1370.69	3.81	0.04	0.02	0.47	99.66	8.6
	RES-009E 1385.61-1388.61	N	1385.61	1388.61	3.67	0.05	0.01	0.39	99.71	6.77
	RES-009E 1402.22-1404.53	N	1402.22	1404.53	4.07	0.04	0.02	0.44	99.62	5.55

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX E
X-RAY FLUORESCENCE WHOLE ROCK ANALYSIS

			Depth		Potassium Oxide	Sodium Oxide	Strontium Oxide	Titanium Dioxide	Total Metals by XRF	Loss On Ignition
Hole ID	Sample ID	Type	Top	Bottom	%	%	%	%	%	%
RES-009E	RES-009E 1410.5-1411.5	N	1410.5	1411.5	3.99	0.05	0.01	0.43	99.55	5.55
	RES-009E 1418.16-1419.8	N	1418.16	1419.8	4.17	0.03	0.02	0.52	98.46	6.98
	RES-009E 1431.42-1433.8	N	1431.42	1433.8	3.42	<0.01	0.02	0.27	98.52	6.97
	RES-009E 1446.41-1449.41	N	1446.41	1449.41	4.24	0.03	0.04	1.05	99.28	10.35
	RES-009E 1464.41-1467.41	N	1464.41	1467.41	4.48	0.05	0.05	1.06	99.77	8.72
	RES-009E 1478.13-1481.13	N	1478.13	1481.13	4.1	0.01	0.03	0.83	98.47	9.35
	RES-009E 1496.13-1499.13	N	1496.13	1499.13	3.43	0.01	0.03	0.83	99.39	9.47
	RES-009E 1510.74-1527.19	N	1510.74	1527.19	4.1	0.04	0.01	0.64	98.73	8.68
	RES-009E 1514.13-1517.13	N	1514.13	1517.13	4.34	0.04	0.01	0.56	99.11	9.09
	RES-009E 1532.4-1534.49	N	1532.4	1534.49	3.54	0.05	0.01	0.69	98.55	9.67
	RES-009E 1540.5-1541.5	N	1540.5	1541.5	3.54	0.04	0.01	0.7	98.36	9.57
	RES-009E 1547.47-1550.47	N	1547.47	1550.47	1.9	<0.01	0.01	0.79	99.45	8.78
	RES-009E 1565.47-1568.47	N	1565.47	1568.47	3.51	0.04	0.01	0.57	99.76	10.8
	RES-009E 1597.32-1599.88	N	1597.32	1599.88	0.48	0.03	0.04	0.62	99.05	14.2
	RES-009E 1602.44-1605	N	1602.44	1605	1.38	0.03	0.04	0.72	99.24	12.2
	RES-009E 1617.38-1619.14	N	1617.38	1619.14	3.25	0.03	0.02	0.89	99.32	6.59
	RES-009E 1634.46-1637.47	N	1634.46	1637.47	3.64	0.01	0.02	0.4	98.16	7.66
	RES-009E 1650.14-1652.81	N	1650.14	1652.81	0.73	<0.01	0.02	0.51	96.56	10.65
		FD	1650.14	1652.81	0.73	<0.01	0.02	0.5	97.11	10.7
	RES-009E 1669.07-1672.07	N	1669.07	1672.07	4.67	0.02	0.04	0.9	98.47	6.4
	RES-009E 1685.09-1687.47	N	1685.09	1687.47	4.13	0.01	0.02	0.31	98.43	4.15
	RES-009E 1697.61-1700.61	N	1697.61	1700.61	3.52	0.02	0.03	0.65	99.4	6.27
	RES-009E 1718.61-1721.61	N	1718.61	1721.61	2.69	0.02	0.05	0.55	99.89	5.07
	RES-009E 1739.63-1742.63	N	1739.63	1742.63	0.06	<0.01	0.03	0.2	98.69	3.49
	RES-009E 1760.86-1763.86	N	1760.86	1763.86	1.8	<0.01	0.02	0.41	98.35	3.58
		FD	1760.86	1763.86	1.8	0.01	0.02	0.41	98.59	3.58
	RES-009E 1789.83-1792.31	N	1789.83	1792.31	2.52	0.01	0.03	0.53	98.96	4.22
	RES-009E 1798.16-1799.79	N	1798.16	1799.79	1.69	<0.01	0.03	0.29	98.39	4.6
	RES-009E 1801.42-1804.15	N	1801.42	1804.15	1.54	<0.01	0.04	0.37	97.4	8.66
	RES-009E 1818.62-1821.62	N	1818.62	1821.62	1.6	<0.01	<0.01	0.43	97.43	8.26
	RES-009E 1829.95-1832.48	N	1829.95	1832.48	1.17	<0.01	0.01	0.28	94.7	6.53
	RES-009E 1846.66-1849.66	N	1846.66	1849.66	0.41	<0.01	0.01	0.23	96.32	8.57
	RES-009E 1862.15-1865.15	N	1862.15	1865.15	0.26	<0.01	<0.01	0.22	86.17	11.15
	RES-009E 1867.87-188	N	1867.87	1884.35	0.28	<0.01	<0.01	0.15	80.01	3.7
	RES-009E 1880.15-1882.37	N	1880.15	1882.37	0.22	<0.01	<0.01	0.1	76.19	5.9
	RES-009E 1885.5-1886.5	N	1885.5	1886.5	0.21	<0.01	0.01	0.09	74.44	5.94
	RES-009E 1899-1901.88	N	1899	1901.88	1.23	<0.01	0.01	0.33	94.75	7.33
	RES-009E 1929.76-1932.58	N	1929.76	1932.58	0.17	<0.01	<0.01	0.07	89.35	4.19
	RES-009E 1947.67-1950.67	N	1947.67	1950.67	2.61	<0.01	<0.01	0.35	95	7.54
	RES-009E 1954.6-1956	N	1954.6	1956	2.83	<0.01	<0.01	0.24	96.65	5.12
	RES-009E 1967.76-1969.72	N	1967.76	1969.72	6.74	0.05	0.01	0.44	98.03	2.24
	RES-009E 1974.78-1977.89	N	1974.78	1977.89	0.38	<0.01	<0.01	0.11	87.13	9.62
	RES-009E 1984.74-1987.74	N	1984.74	1987.74	0.03	<0.01	0.01	0.1	97.23	2.96
	RES-009E 2056.38-207	N	2056.38	2075	4.77	<0.01	0.02	1.57	96.44	7.65

FD	Field duplicate
N	Normal
XRF	X-Ray florescence

APPENDIX F
HUMIDITY CELL TESTING RESULTS

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 1	26-Aug-08	N	1639	1642	<0.2	0.0028	0.0012L1	0.166	<0.01	0.02	<0.0005	257	26	<0.05	0.01	0.02	3.2	<0.05	0.0004
		2-Sep-08	N	1639	1642	0.04F	0.0021	<0.001	0.079	<0.01	<0.05	<0.0005	22.6	28	<0.05	<0.05	0.02F	5.5	<0.05	0.0003F
		9-Sep-08	N	1639	1642	0.12	0.001	<0.001	0.037	<0.02D2	<0.1D2	<0.0005	9.2	2	<0.05	<0.05	<0.1D2	1.2	0.03	0.0002
		16-Sep-08	N	1639	1642	0.07	0.0009	<0.001	0.073	<0.01	<0.05	<0.0005	17.8	4	<0.05	0.01	0.02	3	<0.05	0.0003
		23-Sep-08	N	1639	1642	0.1	<0.002	<0.001	0.045	<0.01	<0.05	<0.0005	10.7	2	<0.05	<0.05	<0.05	1.3	<0.05	0.0003
		30-Sep-08	N	1639	1642	0.09	<0.002	<0.001	0.029	<0.01	<0.05	<0.0005	7.6	<5	<0.05	<0.05	<0.05	0.9	<0.05	0.0002
		7-Oct-08	N	1639	1642	0.05F	0.0005F	<0.001	0.063	<0.01	<0.05	<0.0005	13.8	2F	<0.05	<0.05	<0.05	1.3	<0.05	0.0004F
		14-Oct-08	N	1639	1642	0.04F	0.0007F	<0.001	0.09	<0.01	0.02F	<0.0005	19.8	2FM1	<0.05	<0.05	<0.05	1.5	0.02F	0.0007
		21-Oct-08	N	1639	1642	0.06F	<0.002	<0.002	0.069	<0.01	<0.05	<0.0005	15	<5M1	<0.05	<0.05	<0.05	0.9	<0.05	0.0005
		28-Oct-08	N	1639	1642	0.05F	0.0005F	<0.002	0.065	<0.01	<0.05	<0.0005	16.9	2F	<0.05	<0.05	<0.05	1.2	<0.05	0.0004F
		4-Nov-08	N	1639	1642	0.07F	<0.002	<0.002	0.032	<0.01	<0.05	<0.0005	8.4	<5	<0.05	<0.05	<0.05	0.5	<0.05	0.0001F
	TEST 1S	11-Nov-08	N	1639	1642	<0.2	0.0007F	<0.002	0.12	<0.01	<0.05	<0.0005	37.9	16	<0.05	<0.05	<0.05	1.9M1	<0.05	0.0005
		18-Nov-08	N	1639	1642	0.08F	<0.002	<0.002	0.045	<0.01	<0.05	<0.0005	14.9	2F	<0.05	<0.05	<0.05	0.6V1	<0.05	0.0003F
		25-Nov-08	N	1639	1642	0.05F	<0.002	<0.002	0.038	<0.01	<0.05	<0.0005	14.5	<5	<0.05	<0.05	<0.05	0.5M1	0.03F	0.0002F
		2-Dec-08	N	1639	1642	0.06F	<0.002	<0.002	0.019F	<0.01	<0.05	<0.0005	11.7	<5	<0.05	<0.05	<0.05	0.9	<0.05	0.0004F
		9-Dec-08	N	1639	1642	0.09F	<0.002	<0.002	0.017F	<0.01	<0.05	<0.0005	8.9	<5M1	<0.05	<0.05	<0.05	0.3FM2	0.04F	0.0005
		16-Dec-08	N	1639	1642	0.03F	<0.002	<0.002	0.015F	<0.01	<0.05	<0.0005	9.7	<5	<0.05	<0.05	<0.05	<10D3	0.03F	0.0007
		23-Dec-08	N	1639	1642	0.05F	--	<0.002	0.006F	0.003F	--	<0.0005	6.3	<5M1	--	<0.05	<0.05	0.2F	0.03F	0.0004F
		30-Dec-08	N	1639	1642	0.04F	--	<0.002	0.013F	<0.01	--	<0.0005	10	1F	--	<0.05	<0.05	0.2F	<0.05	0.0005
		6-Jan-09	N	1639	1642	0.05F	--	<0.002	0.017F	<0.01	--	<0.0005	11.5	<5	--	<0.05	<0.05	0.3F	<0.05	0.0002F
		13-Jan-09	N	1639	1642	<0.2	<0.002	<0.002	0.006F	<0.01	<0.05	<0.0005	9	<5	<0.05	<0.05	<0.05	0.2F	<0.05	0.0003F
		20-Jan-09	N	1639	1642	0.06F	--	<0.002	0.014F	<0.01	--	<0.0005	10.2	<5	--	<0.05	<0.05	0.2F	0.02F	0.0005
		27-Jan-09	N	1639	1642	0.11F	--	<0.002	0.014F	0.002F	--	<0.0005	8.8	<5	--	<0.05	0.01F	0.2F	0.08	0.0006
		3-Feb-09	N	1639	1642	<0.2	--	<0.002	0.018F	<0.01	--	<0.0005	8.5	<5	--	<0.05	<0.05	0.1F	<0.05	0.0002F
		10-Feb-09	N	1639	1642	0.03F	<0.002	<0.002	0.016F	<0.01	<0.05	<0.0005	10.9	<5H3	<0.05	<0.05	<0.05	0.2FH3	<0.05	0.0002F
		17-Feb-09	N	1639	1642	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 2	26-Aug-08	N	1745	1748	0.07	0.0009	0.0007M2	0.15D2	<0.01	0.07D2	0.0002	708D2	4	<0.05	<0.3D2	0.02	1.7	<0.05	<0.0005
		2-Sep-08	N	1745	1748	<0.2	0.0007F	<0.001	0.04	<0.01	0.02F	<0.0005	419M3	6	<0.05	<0.05	<0.05	1.5	<0.05	<0.0005
		9-Sep-08	N	1745	1748	0.06	0.0009	<0.001	0.029	<0.01	0.02	<0.0005	425M3	3	<0.05	<0.05	0.01	1.2	<0.05	<0.0005
		16-Sep-08	N	1745	1748	0.07	<0.002	<0.001	0.019	<0.01	<0.05	<0.0005	389	<5	<0.05	0.01	0.02	1.1	<0.05	<0.0005
		23-Sep-08	N	1745	1748	<0.2	0.0004	0.0005	0.013	<0.01	<0.05	<0.0005	332	<5	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 2	30-Sep-08	N	1745	1748	0.04	0.0004	<0.001	0.014	<0.01	<0.05	<0.0005	404	<5	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		7-Oct-08	N	1745	1748	0.05F	<0.002	<0.001	0.011F	<0.01	<0.05	<0.0005	345	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		14-Oct-08	N	1745	1748	<0.2	<0.002	<0.001	0.007F	<0.01	<0.05	<0.0005	346	<5	<0.05	<0.05	0.01F	0.4F	<0.05	<0.0005
		21-Oct-08	N	1745	1748	<0.2	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	278	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		28-Oct-08	N	1745	1748	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	<0.0005	322	<5	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		4-Nov-08	N	1745	1748	<0.2	<0.002	<0.002	0.014F	<0.01	<0.05	<0.0005	451	<5	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		11-Nov-08	N	1745	1748	<0.2	<0.002	<0.002	0.011F	<0.01	<0.05	<0.0005	305	<5	<0.05	0.01F	0.02F	0.5	<0.05	<0.0005
		18-Nov-08	N	1745	1748	0.1F	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	95.1	<5	<0.05	<0.05	<0.05	0.1FV1	<0.05	<0.0005
		25-Nov-08	N	1745	1748	<0.2	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	326	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		2-Dec-08	N	1745	1748	0.05F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	195	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		9-Dec-08	N	1745	1748	0.09FD1	<0.002	<0.002	0.006F	<0.01	<0.1D1	<0.0005	269	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		16-Dec-08	N	1745	1748	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	192	<5	<0.05	<0.05	0.04F	0.1F	<0.05	<0.0005
		23-Dec-08	N	1745	1748	0.15F	--	<0.002	<0.02	0.003F	--	<0.0005	183	<5	--	<0.05	0.01F	0.3F	<0.05	<0.0005
		30-Dec-08	N	1745	1748	0.07F	--	<0.002	<0.02	<0.01	--	<0.0005	161	1F	--	<0.05	<0.05	0.2F	<0.05	<0.0005
		6-Jan-09	N	1745	1748	0.04F	--	<0.002	0.005F	<0.01	--	<0.0005	186	<5	--	<0.05	<0.05	0.3F	<0.05	<0.0005
		13-Jan-09	N	1745	1748	0.1F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	196	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		20-Jan-09	N	1745	1748	0.16FD1	--	<0.002	0.004F	<0.01	--	<0.0005	190	<5	--	<0.05	0.02FD1	0.4F	<0.05	<0.0005
		27-Jan-09	N	1745	1748	0.06F	--	<0.002	0.004F	0.002F	--	<0.0005	189	<5	--	<0.05	0.02F	0.3F	0.03F	<0.0005
		3-Feb-09	N	1745	1748	0.06F	--	<0.002	0.005F	<0.01	--	<0.0005	197	<5	--	<0.05	<0.05	0.3F	<0.05	<0.0005
		10-Feb-09	N	1745	1748	0.18F	--	<0.002	0.007F	<0.01	--	<0.0005	246	<5	--	<0.05	0.02F	0.4F	<0.05	<0.0005
		17-Feb-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1745	1748	0.08F	<0.002	<0.002	0.009F	<0.01	<0.05	<0.0005	224M3	<3M1	<0.05	<0.05	0.01F	0.4FM1	<0.05	<0.0005
		17-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1745	1748	0.05F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	207M2	<3	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		14-Apr-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 2	5-May-09	N	1745	1748	<0.2	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	202M2	<3	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		12-May-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1745	1748	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	191M2	<3	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		9-Jun-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1745	1748	0.05F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	197	<3	<0.05	<0.05	0.02F	0.4F	<0.05	<0.0005
		7-Jul-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1745	1748	<0.2	0.0004F	<0.002	0.007F	<0.01	<0.05	<0.0005	295	<3	<0.05	<0.05	0.01F	0.5	<0.05	<0.0005
		4-Aug-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1745	1748	<0.2	<0.002	<0.002	--	--	--	<0.0005	265M3	<3	<0.05	<0.05	<0.05	0.5	<0.05	0.0003F
	TEST 3	26-Aug-08	N	1771.75	1791.4	<0.2	0.0007	0.001	0.1D2	<0.01	0.12D2	<0.0005	433D2	45	<0.05	<0.3D2	0.02	0.9	<0.05	<0.0005
		2-Sep-08	N	1771.75	1791.4	<0.2	0.0011F	<0.001	0.034	<0.01	0.05	<0.0005	352	28	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005
		9-Sep-08	N	1771.75	1791.4	0.04	0.0014	0.0013	0.02	<0.01	0.04	0.0002	306	17	<0.05	<0.05	0.01	0.7	<0.05	0.0002
		16-Sep-08	N	1771.75	1791.4	0.04	<0.002	0.0007	0.02	<0.01	0.03	<0.0005	353	10	<0.05	0.01	0.02	0.9	<0.05	<0.0005
		23-Sep-08	N	1771.75	1791.4	<0.2	<0.002	0.0006	0.011	<0.01	0.03	<0.0005	262	9	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		30-Sep-08	N	1771.75	1791.4	<0.2	0.0005	<0.001	0.005	<0.01	0.02	<0.0005	298	5	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		7-Oct-08	N	1771.75	1791.4	<0.2	<0.002	<0.001	0.012F	<0.01	0.03F	<0.0005	267	5	<0.05	<0.05	0.01F	0.4F	<0.05	<0.0005
		14-Oct-08	N	1771.75	1791.4	<0.2	<0.002	<0.001	0.006F	<0.01	0.02F	<0.0005	306	3F	<0.05	<0.05	<0.05	0.4FM2	<0.05	<0.0005
		21-Oct-08	N	1771.75	1791.4	<0.2	<0.002	0.0005F	0.009F	<0.01	0.02F	0.0001F	320	3F	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		28-Oct-08	N	1771.75	1791.4	0.05F	<0.002	<0.002	0.012F	<0.01	0.01F	<0.0005	237	2F	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		4-Nov-08	N	1771.75	1791.4	<0.2	<0.002	<0.002	0.008F	<0.01	0.02F	<0.0005	251	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		11-Nov-08	N	1771.75	1791.4	<0.2	<0.002	<0.002	0.007F	<0.01	0.01F	<0.0005	244	1F	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		18-Nov-08	N	1771.75	1791.4	<0.2	<0.002	<0.002	0.007F	<0.01	0.02F	<0.0005	280	1F	<0.05	<0.05	<0.05	0.6V1	<0.05	<0.0005
		25-Nov-08	N	1771.75	1791.4	<0.2	<0.002	<0.002	0.005F	<0.01	0.01F	<0.0005	208	1F	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 3	2-Dec-08	N	1771.75	1791.4	<0.2	<0.002	<0.002	<0.02	<0.01	0.01F	<0.0005	223	1F	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		9-Dec-08	N	1771.75	1791.4	<0.3D1	<0.002	<0.002	0.006F	<0.01	<0.1D1	<0.0005	235	1F	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		16-Dec-08	N	1771.75	1791.4	<0.2	<0.002	0.0006F	<0.02	<0.01	<0.05	<0.0005	198	<5	<0.05	<0.05	0.03F	0.3FD3	<0.05	<0.0005
		23-Dec-08	N	1771.75	1791.4	0.16F	--	0.0005F	0.004F	0.002F	--	<0.0005	264	<5	--	<0.05	0.02F	0.5	<0.05	<0.0005
		30-Dec-08	N	1771.75	1791.4	0.04F	--	<0.002	0.004F	<0.01	--	<0.0005	174	1F	--	<0.05	<0.05	0.3F	<0.05	<0.0005
		6-Jan-09	N	1771.75	1791.4	<0.2	--	0.0005F	0.005F	<0.01	--	<0.0005	239	<5	--	<0.05	0.01F	0.5	<0.05	<0.0005
		13-Jan-09	N	1771.75	1791.4	0.08F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	208	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		20-Jan-09	N	1771.75	1791.4	<0.2	--	0.0006F	0.003F	<0.01	--	0.0001F	203	<5	--	<0.05	0.01F	0.5	<0.05	<0.0005
		27-Jan-09	N	1771.75	1791.4	<0.2	--	<0.002	0.004F	<0.01	--	<0.0005	186	1F	--	<0.05	0.02F	0.4F	<0.05	<0.0005
		3-Feb-09	N	1771.75	1791.4	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	253	<5	--	<0.05	<0.05	0.5	<0.05	<0.0005
		10-Feb-09	N	1771.75	1791.4	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	220	<5H3	<0.05	<0.05	<0.05	0.4FH3	<0.05	<0.0005
		17-Feb-09	N	1771.75	1791.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 4	26-Aug-08	N	1855	1858	0.08	0.0018	0.0054	0.08D2	<0.01	0.2D2	0.0001	718D2	100	<0.05	<0.5D2	0.02	2.3	<0.05	0.0003
		2-Sep-08	N	1855	1858	<0.2	0.001F	0.0012	0.059	<0.01	0.03F	<0.0005	334	17	<0.05	<0.05	<0.05	1.5	<0.05	0.0002F
		9-Sep-08	N	1855	1858	0.04	0.0006	0.0006	0.04	<0.01	0.01	<0.0005	282	6	<0.05	<0.05	<0.05	1	<0.05	<0.0005
		16-Sep-08	N	1855	1858	0.06	<0.002	0.0006	0.035	<0.01	<0.05	<0.0005	435	6	<0.05	<0.05	0.03	1.7	<0.05	<0.0005
		23-Sep-08	N	1855	1858	<0.2	<0.002	<0.001	0.024	<0.01	<0.05	<0.0005	82.5	1	<0.05	<0.05	<0.05	0.3	<0.05	<0.0005
		30-Sep-08	N	1855	1858	<0.2	<0.002	<0.001	0.042	<0.01	<0.05	<0.0005	119	4	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		7-Oct-08	N	1855	1858	<0.2	<0.002	<0.001	0.051	<0.01	<0.05	<0.0005	220	6	<0.05	<0.05	<0.05	0.7	<0.05	0.0001F
		14-Oct-08	N	1855	1858	<0.2	<0.002	<0.001	0.026	<0.01	<0.05	<0.0005	202	7	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		21-Oct-08	N	1855	1858	<0.2	<0.002	<0.002	0.028	<0.01	<0.05	<0.0005	198	10	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		28-Oct-08	N	1855	1858	0.07F	0.0004F	<0.002	0.041	<0.01	<0.05	<0.0005	127	5	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		4-Nov-08	N	1855	1858	<0.2	<0.002	<0.002	0.051	<0.01	<0.05	<0.0005	64.2	1F	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
	TEST 4S	11-Nov-08	N	1855	1858	<0.2	0.0004F	0.0006F	0.021	<0.01	<0.05	<0.0005	248	6	<0.05	<0.05	<0.05	1	<0.05	0.0002F
		18-Nov-08	N	1855	1858	<0.2	<0.002	<0.002	0.023	<0.01	<0.05	<0.0005	67.1	2F	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		25-Nov-08	N	1855	1858	<0.2	<0.002	<0.002	0.016F	<0.01	<0.05	<0.0005	55.1	2F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		2-Dec-08	N	1855	1858	<0.2	<0.002	<0.002	0.013F	<0.01	<0.05	<0.0005	46.3	1F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		9-Dec-08	N	1855	1858	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	34.7	1F	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		16-Dec-08	N	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 5	26-Aug-08	FD	1855	1858	0.06	0.0018	0.0057	0.07D2	<0.01	0.2D2	0.0002	725D2	97	<0.05	<0.5D2	0.03	2.4	<0.05	0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 5	2-Sep-08	FD	1855	1858	<0.2	0.001F	0.0015	0.056	<0.01	0.03F	<0.0005	379	30	<0.05	<0.05	0.02F	2	<0.05	0.0001F
		9-Sep-08	FD	1855	1858	<0.2	0.0005	0.0006	0.051	<0.01	0.02	<0.0005	240	12	<0.05	<0.05	0.01	1.2	<0.05	0.0001
		16-Sep-08	FD	1855	1858	<0.2	<0.002	<0.001	0.047	<0.01	<0.05	<0.0005	215	8	<0.05	0.01	0.02	1.2	<0.05	<0.0005
		23-Sep-08	FD	1855	1858	<0.2	<0.002	0.0008	0.056	<0.01	<0.05	<0.0005	238	9	<0.05	<0.05	<0.05	1.1	<0.05	0.0001
		30-Sep-08	FD	1855	1858	<0.2	<0.002	<0.001	0.018	<0.01	<0.05	<0.0005	212	2	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005
		7-Oct-08	FD	1855	1858	<0.2	<0.002	<0.001	0.025	<0.01	<0.05	<0.0005	148	3F	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		14-Oct-08	FD	1855	1858	<0.2	<0.002	<0.001	0.04	<0.01	<0.05	<0.0005	173	4F	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		21-Oct-08	FD	1855	1858	<0.2	<0.002	<0.002	0.026	<0.01	<0.05	<0.0005	127	3F	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		28-Oct-08	FD	1855	1858	<0.2	<0.002	<0.002	0.033	<0.01	<0.05	<0.0005	231	8	<0.05	<0.05	<0.05	0.9	<0.05	0.0001F
		4-Nov-08	FD	1855	1858	<0.2	<0.002	<0.002	0.02	<0.01	<0.05	<0.0005	57.2	<5	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		11-Nov-08	FD	1855	1858	<0.2	<0.002	<0.002	0.021	<0.01	<0.05	<0.0005	58	2F	<0.05	<0.05	<0.05	0.3F	<0.05	0.0001F
		18-Nov-08	FD	1855	1858	<0.2	<0.002	<0.002	0.036	<0.01	<0.05	<0.0005	75.6	2F	<0.05	<0.05	<0.05	0.4FV1	<0.05	<0.0005
		25-Nov-08	FD	1855	1858	<0.2	<0.002	<0.002	0.028	<0.01	<0.05	<0.0005	61.2	3F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		2-Dec-08	FD	1855	1858	<0.2	<0.002	<0.002	0.019F	<0.01	<0.05	<0.0005	48.6	2F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		9-Dec-08	FD	1855	1858	<0.2	<0.002	<0.002	0.025	<0.01	<0.05	<0.0005	62.5	3F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		16-Dec-08	FD	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	FD	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 6	26-Aug-08	N	1873	1876	0.03	0.0035	0.0068	0.12D2	<0.01	0.01	0.0003	487D2	38	<0.05	<0.3D2	0.03	8.3	<0.05	0.0005
		2-Sep-08	N	1873	1876	<0.2	0.0028	0.0008F	0.039	<0.01	0.03F	<0.0005	90.3	65	<0.05	<0.05	0.01F	14.3	<0.05	<0.0005
		9-Sep-08	N	1873	1876	<0.2	0.0014	0.0008	0.027	<0.01	0.02	<0.0005	38	26	<0.05	<0.05	0.02	5.9	<0.05	<0.0005
		16-Sep-08	N	1873	1876	<0.2	0.0022	0.0008	0.029	<0.01	0.02	<0.0005	31.5	15	<0.05	0.02	0.02	11	<0.05	<0.0005
		23-Sep-08	N	1873	1876	<0.2	0.0007	<0.001	0.008	<0.01	<0.05	<0.0005	18.1	7	<0.05	<0.05	<0.05	2.2	<0.05	<0.0005
		30-Sep-08	N	1873	1876	<0.2	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	9.4	3	<0.05	<0.05	<0.05	1.3	<0.05	<0.0005
		7-Oct-08	N	1873	1876	<0.2	<0.002	<0.001	0.005F	<0.01	<0.05	<0.0005	10.3	3F	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		14-Oct-08	N	1873	1876	<0.2	<0.002	<0.001	0.012F	<0.01	<0.05	<0.0005	11.6	2F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		21-Oct-08	N	1873	1876	<0.2	0.0004F	<0.002	0.011F	<0.01	<0.05	<0.0005	24.6	5	<0.05	<0.05	0.01F	1.1	<0.05	<0.0005
		28-Oct-08	N	1873	1876	<0.2	<0.002	<0.002	0.014F	<0.01	<0.05	<0.0005	23	3F	<0.05	<0.05	<0.05	1.1	<0.05	<0.0005
		4-Nov-08	N	1873	1876	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	11.3	1F	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		11-Nov-08	N	1873	1876	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	8	1F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		18-Nov-08	N	1873	1876	<0.2	<0.002V1	<0.002	0.004F	<0.01	<0.05	<0.0005	9.5	<5	<0.05	<0.05	<0.05	0.2FV1	<0.05	<0.0005
		25-Nov-08	N	1873	1876	0.03F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	9.6	1F	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 6	2-Dec-08	N	1873	1876	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	9.2	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		9-Dec-08	N	1873	1876	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	11.3	1F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		16-Dec-08	N	1873	1876	<0.2	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	15.7	1F	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		23-Dec-08	N	1873	1876	0.03F	--	<0.002	<0.02	0.002F	--	<0.0005	11.4	1F	--	0.01F	<0.05	0.3F	<0.05	<0.0005
		30-Dec-08	N	1873	1876	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	11.9	1F	--	<0.05	<0.05	0.1F	<0.05	<0.0005
		6-Jan-09	N	1873	1876	<0.2	--	<0.002	0.004F	<0.01	--	<0.0005	11.8	1F	--	<0.05	<0.05	0.3F	<0.05	<0.0005
		13-Jan-09	N	1873	1876	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	12.2	1F	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		20-Jan-09	N	1873	1876	<0.2	--	<0.002	0.007F	<0.01	--	0.0001F	23.9	1F	--	<0.05	0.01F	0.7	<0.05	0.0001F
		27-Jan-09	N	1873	1876	<0.2	--	<0.002	<0.02	0.002F	--	<0.0005	11.8	1F	--	<0.05	0.02F	0.3F	<0.05	<0.0005
		3-Feb-09	N	1873	1876	<0.2	--	<0.002	0.004F	<0.01	--	<0.0005	14	1F	--	<0.05	<0.05	0.3F	0.03F	<0.0005
		10-Feb-09	N	1873	1876	0.03F	--	<0.002	0.005F	<0.01	--	<0.0005	18.2	3FM1	--	<0.05	0.01F	0.4F	<0.05	<0.0005
		17-Feb-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1873	1876	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	17.5	<3	<0.05	0.01F	0.01F	0.2F	<0.05	<0.0005
		17-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1873	1876	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	20.4	<3	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		14-Apr-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1873	1876	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	24.2	<3	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		12-May-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1873	1876	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	<0.0005	33.4	<3	<0.05	<0.05	<0.05	1.1	<0.05	<0.0005
		9-Jun-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1873	1876	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	44.4	<3	<0.05	0.04F	0.01F	0.7	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 6	7-Jul-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1873	1876	<0.2	0.0006F	<0.002	0.016F	<0.01	<0.05	<0.0005	53.3	<3	<0.05	<0.05	0.02F	1.6	<0.05	<0.0005
		4-Aug-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1873	1876	<0.2	<0.002	<0.002	0.011F	<0.01	0.02F	<0.0005	43.5	<3	<0.05	<0.05	<0.05	0.7	<0.05	0.0003F
	TEST 7	26-Aug-08	N	2041	2044	0.04	0.0005	0.001	0.11D2	<0.01	0.1D2	0.0006	573D2	7	<0.05	<0.3D2	0.03	0.8	<0.05	0.0031
		2-Sep-08	N	2041	2044	<0.2	<0.002	<0.001	0.066	<0.01	<0.05	<0.0005	224	7	<0.05	<0.05	<0.05	1.3	<0.05	0.0004F
		9-Sep-08	N	2041	2044	0.04	<0.002	<0.001	0.05	<0.01	<0.05	<0.0005	139	4	<0.05	<0.05	0.01	0.6	<0.05	<0.0005
		16-Sep-08	N	2041	2044	0.04	<0.002	<0.001	0.043	<0.01	<0.05	<0.0005	224D2	8	<0.05	0.01	0.03	1.1	<0.05	<0.0005
		23-Sep-08	N	2041	2044	<0.2	<0.002	<0.001	0.039	<0.01	<0.05	0.0001	188	9	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005
		30-Sep-08	N	2041	2044	<0.2	<0.002	<0.001	0.034	<0.01	<0.05	0.0001	175	13	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		7-Oct-08	N	2041	2044	<0.2	<0.002	<0.001	0.036	<0.01	<0.05	<0.0005	204	14	<0.05	<0.05	0.01F	0.3F	<0.05	0.0001F
		14-Oct-08	N	2041	2044	<0.2	<0.002	<0.001	0.051	<0.01	<0.05	<0.0005	113	8	<0.05	<0.05	0.01F	0.2F	<0.05	<0.0005
		21-Oct-08	N	2041	2044	<0.2	<0.002	<0.002	0.035	<0.01	<0.05	<0.0005	115	11	<0.05	<0.05	<0.05	0.3F	<0.05	0.0001F
		28-Oct-08	N	2041	2044	<0.2	<0.002	<0.002	0.04	<0.01	<0.05	<0.0005	108	11	<0.05	<0.05	<0.05	0.3F	<0.05	0.0001F
		4-Nov-08	N	2041	2044	<0.2	<0.002	<0.002	0.038	<0.01	<0.05	<0.0005	96	2F	<0.05	<0.05	0.01F	0.2F	<0.05	<0.0005
		11-Nov-08	N	2041	2044	<0.2	<0.002	<0.002	0.034	<0.01	<0.05	<0.0005	104	11	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		18-Nov-08	N	2041	2044	0.04F	<0.002V1	<0.002	0.045	<0.01	<0.05	0.0002F	240	12	<0.05	<0.05	0.01F	0.4FV1	<0.05	0.0001F
		25-Nov-08	N	2041	2044	<0.2	<0.002	<0.002	0.04	<0.01	<0.05	<0.0005	88.2	8	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		2-Dec-08	N	2041	2044	<0.2	<0.002	<0.002	0.035	<0.01	<0.05	<0.0005	83.5	7	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		9-Dec-08	N	2041	2044	<0.2	<0.002	<0.002	0.034	<0.01	<0.05	0.0002F	100	8	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		16-Dec-08	N	2041	2044	<0.2	<0.002	<0.002	0.035	<0.01	<0.05	<0.0005	76.2	2F	<0.05	<0.05	0.01F	0.1F	<0.05	<0.0005
		23-Dec-08	N	2041	2044	0.07F	--	<0.002	0.036	0.002F	--	0.0001F	84.3	8	--	<0.05	0.01F	0.2F	<0.05	<0.0005
		30-Dec-08	N	2041	2044	<0.2	--	<0.002	0.035	<0.01	--	0.0002F	83.1	2F	--	<0.05	<0.05	0.2F	<0.05	<0.0005
		6-Jan-09	N	2041	2044	<0.2	--	<0.002	0.038	<0.01	--	0.0001F	100	9	--	0.01F	<0.05	0.3F	<0.05	<0.0005
		13-Jan-09	N	2041	2044	<0.2	<0.002	<0.002	0.033	<0.01	<0.05	0.0002F	109	9	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		20-Jan-09	N	2041	2044	<0.2	--	<0.002	0.036	<0.01	--	0.0002F	101	4F	--	<0.05	0.02F	0.4F	<0.05	<0.0005
		27-Jan-09	N	2041	2044	0.12F	--	<0.002	0.032	0.002F	--	0.0001F	101	4F	--	<0.05	0.03F	0.3F	0.32	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	TEST 7	3-Feb-09	N	2041	2044	<0.2	--	<0.002	0.038	<0.01	--	0.0002F	108	3F	--	<0.05	0.01F	0.3F	<0.05	<0.0005
		10-Feb-09	N	2041	2044	<0.2	<0.002	<0.002	0.037	<0.01	<0.05	0.0002F	96.9	9H3	<0.05	<0.05	0.02F	0.3FH3	<0.05	<0.0005
		17-Feb-09	N	2041	2044	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 8	26-Aug-08	FD	2041	2044	0.06	0.0006	0.0025	0.09D2	<0.01	<0.5D2	0.0006	583D2	11	<0.05	<0.3D2	0.05	0.8	<0.05	0.0011
		2-Sep-08	FD	2041	2044	<0.2	<0.002	<0.001	0.054	<0.01	<0.05	0.0002F	414	33	<0.05	<0.05	0.02F	1.6	<0.05	0.0004F
		9-Sep-08	FD	2041	2044	0.06	<0.002	<0.001	0.046	<0.01	<0.05	0.0003	352	5	<0.05	<0.05	0.03	1.3	<0.05	0.0003
		16-Sep-08	FD	2041	2044	0.06	<0.002	<0.001	0.04	<0.01	<0.05	0.0002	340D2	8	<0.05	<0.05	0.03	1.5	<0.05	<0.0005
		23-Sep-08	FD	2041	2044	0.05	<0.002	<0.001	0.035	<0.01	<0.05	0.0003	336	18	<0.05	<0.05	<0.05	1.2	<0.05	<0.0005
		30-Sep-08	FD	2041	2044	0.04	<0.002	<0.001	0.029	<0.01	<0.05	0.0004	322	19	<0.05	<0.05	0.02	1	<0.05	<0.0005
		7-Oct-08	FD	2041	2044	<0.2	<0.002	<0.001	0.03	<0.01	<0.05	0.0004F	319	24	<0.05	<0.05	0.02F	0.6	<0.05	<0.0005
		14-Oct-08	FD	2041	2044	<0.2	<0.002	<0.001	0.036	<0.01	<0.05	0.0004F	290	23	<0.05	<0.05	0.02F	0.5	<0.05	<0.0005
		21-Oct-08	FD	2041	2044	<0.2	<0.002	<0.002	0.029	<0.01	<0.05	0.0004F	270	19	<0.05	<0.05	0.02F	0.8	<0.05	<0.0005
		28-Oct-08	FD	2041	2044	<0.2	<0.002	<0.002	0.033	<0.01	<0.05	0.0005	271	24	0.01F	<0.05	0.02F	0.7	<0.05	<0.0005
		4-Nov-08	FD	2041	2044	<0.2	<0.002	<0.002	0.033	<0.01	<0.05	0.0004F	274	3F	<0.05	0.01F	0.03F	0.7	<0.05	<0.0005
		11-Nov-08	FD	2041	2044	<0.2	<0.002	<0.002	0.027	<0.01	<0.05	0.0006	286	19	<0.05	<0.05	0.03F	0.9	<0.05	<0.0005
		18-Nov-08	FD	2041	2044	<0.2	<0.002V1	<0.002	0.033	<0.01	<0.05	0.0006	276	20	<0.05	<0.05	0.03F	0.7V1	<0.05	<0.0005
		25-Nov-08	FD	2041	2044	<0.2	<0.002	<0.002	0.034	<0.01	<0.05	0.0005	219	15	<0.05	<0.05	0.03F	0.6	<0.05	<0.0005
		2-Dec-08	FD	2041	2044	<0.2	<0.002	<0.002	0.022	<0.01	<0.05	0.0011	278	9	<0.05	<0.05	0.14	0.6	<0.05	<0.0005
		9-Dec-08	FD	2041	2044	<0.3D1	<0.002	<0.002	0.029	<0.01	<0.1D1	0.0005	253	20	<0.05	<0.05	0.04F	0.8	<0.05	<0.0005
		16-Dec-08	FD	2041	2044	<0.2	<0.002	<0.002	0.03	<0.01	<0.05	0.0005	204	3F	<0.05	<0.05	0.07	<3D3	<0.05	<0.0005
		23-Dec-08	FD	2041	2044	0.13F	--	<0.002	0.032	0.003F	--	0.0006	196	15	--	<0.05	0.06	0.5	<0.05	<0.0005
		30-Dec-08	FD	2041	2044	0.06F	--	<0.002	0.026	<0.01	--	0.0007	209	3F	--	<0.05	0.06	0.4F	<0.05	<0.0005
		6-Jan-09	FD	2041	2044	<0.2	--	<0.002	0.027	<0.01	--	0.0006	233	13	--	<0.05	0.05	0.8	<0.05	<0.0005
		13-Jan-09	FD	2041	2044	0.08F	<0.002	<0.002	0.023	<0.01	<0.05	0.0005	224	16	<0.05	<0.05	0.03F	0.6	<0.05	<0.0005
		20-Jan-09	FD	2041	2044	<0.2	--	<0.002	0.029	<0.01	--	0.0006	206	6	--	<0.05	0.04F	0.6	<0.05	<0.0005
		27-Jan-09	FD	2041	2044	0.29	--	<0.002	0.026	<0.01	--	0.0005	188	5	--	<0.05	0.06	0.5	0.04F	<0.0005
		3-Feb-09	FD	2041	2044	<0.2	--	<0.002	0.03	<0.01	--	0.0004F	182	6	--	<0.05	0.03F	0.5	<0.05	<0.0005
		10-Feb-09	FD	2041	2044	<0.2	0.0005F	<0.002	0.027	<0.01	<0.05	0.0004F	169	16H3	<0.05	<0.05	0.03F	0.4FH3	<0.05	<0.0005
		17-Feb-09	FD	2041	2044	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-002A	TEST 10	26-Aug-08	N	1154	1156	2.6D2	<0.002	0.0592	0.06D2	<0.05D2	0.2D2	0.0055	184D2	10	<0.3D2	<0.5D2	172D2	2D2	0.1D2	0.0032
		2-Sep-08	N	1154	1156	1.42	<0.002	0.0092	0.14	<0.01	0.01F	0.0004F	21.6	1F	<0.05	<0.05	15	2.2	<0.05	0.0003F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 10	9-Sep-08	N	1154	1156	1.26	<0.002	0.0022	0.15	<0.01	0.01	0.0001	9.2	<5	<0.05	<0.05	8.74	1.9	<0.05	0.0003
		16-Sep-08	N	1154	1156	1.53	<0.002	0.0026	0.107	<0.01	<0.05	<0.0005	8.8D2	<5	<0.05	0.02	9.13M3	2.3	<0.05	0.0002
		23-Sep-08	N	1154	1156	0.53	<0.002	0.0007	0.126	<0.01	<0.05	<0.0005	3.5	<5	<0.05	<0.05	3.77	0.9	<0.05	0.0003
		30-Sep-08	N	1154	1156	0.96	<0.002	0.0009	0.122	<0.01	0.01	<0.0005	5.1	<5	<0.05	<0.05	6.99	1.1	<0.05	0.0003
		7-Oct-08	N	1154	1156	0.95	<0.002	<0.001	0.064	<0.01	<0.05	<0.0005	5.1	<5	<0.05	<0.05	8.19	1.2	<0.05	0.0004F
		14-Oct-08	N	1154	1156	0.8	<0.002	<0.001	0.075	<0.01	0.01F	<0.0005	3.9	<5	<0.05	<0.05	5.86	0.6	<0.05	0.0003F
		21-Oct-08	N	1154	1156	0.55	<0.002	<0.002	0.037	<0.01	<0.05	<0.0005	2.6	<5	<0.05	<0.05	4.58	0.6	<0.05	0.0003F
		28-Oct-08	N	1154	1156	0.71	<0.002	0.0005F	0.075	<0.01	<0.05	<0.0005	3.1	<5	<0.05	<0.05	5.9	0.9	<0.05	0.0002F
		4-Nov-08	N	1154	1156	1.15	<0.002	0.0007F	0.067	<0.01	<0.05	<0.0005	5.4	<5	<0.05	0.01F	10.4	1.4	0.02F	0.0003F
	TEST 10S	11-Nov-08	N	1154	1156	0.9	<0.002	0.0015F	0.046	<0.01	<0.05	0.0001F	6.5	<5	<0.05	<0.05	10.9	1.2	<0.05	<0.0005
		18-Nov-08	N	1154	1156	0.21	<0.002V1	0.0005F	0.1	<0.01	<0.05	<0.0005	2.2	<5	<0.05	<0.05	4.34	0.3FV1	<0.05	<0.0005
		25-Nov-08	N	1154	1156	0.17F	<0.002	<0.002	0.089	<0.01	<0.05	<0.0005	1.7	<5	<0.05	<0.05	4.07	0.2F	<0.05	<0.0005
		2-Dec-08	N	1154	1156	0.19F	<0.002	<0.002	0.064	<0.01	<0.05	<0.0005	1.6	<5	<0.05	<0.05	4.44	0.3F	<0.05	<0.0005
		9-Dec-08	N	1154	1156	0.17F	<0.002	<0.002	0.07	<0.01	<0.05	<0.0005	1.5	<5	<0.05	<0.05	5.4	0.2F	<0.05	<0.0005
		16-Dec-08	N	1154	1156	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1154	1156	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 11	26-Aug-08	N	1414.6	1417	13.2D2	0.0011	0.0036	0.06D2	<0.05D2	0.2D2	0.0028	134D2	9	<0.3D2	0.5D2	229D2	1D2	19.8D2	0.0054
		2-Sep-08	N	1414.6	1417	0.57	<0.002	<0.001	0.026	<0.01	0.01F	0.0005	23.6	2F	<0.05	0.11	91.7D1	<5D1	0.16	0.0017
		9-Sep-08	N	1414.6	1417	1.11	<0.002	<0.001	0.019	0.002	0.01	0.0004	11	3	<0.05	0.15	196M3	2D1	0.13	0.0022
		16-Sep-08	N	1414.6	1417	1.7D2	<0.002	<0.001	0.04D2	<0.05D2	<0.3D2	0.0001	5D2	3	<0.3D2	0.17	308D2	<10D2	0.3D2	0.002
		23-Sep-08	N	1414.6	1417	1.89	<0.002	0.0009	0.009	0.003	<0.05	0.0001	1D1	1	<0.05	0.09	243D1M3	<10D1	0.73	0.0026
		30-Sep-08	N	1414.6	1417	2.08	<0.002	0.0008	0.011D1	<0.01	<0.1D1	0.0001	0.7	<5M1	<0.05	0.07	169M3	<10D1	1.09	0.002
		7-Oct-08	N	1414.6	1417	2.8D1	<0.002	<0.001	<0.08D1	<0.05D1	<0.3D1	0.0001F	5<D1	1F	<0.3D1	0.06FD1	247D1M3	<10D1	1.3D1	0.002
		14-Oct-08	N	1414.6	1417	1.59	<0.002	<0.001	0.011F	0.002F	0.02FD1	0.0001F	0.3F	<5	<0.05	0.05	127D1	<10D1	1.04	0.0009
		21-Oct-08	N	1414.6	1417	1.11	<0.002	<0.002	0.006F	<0.01	<0.05	<0.0005	0.3F	<5M1	<0.05	0.03F	76.9M3	<10D1	0.95	0.0009
		28-Oct-08	N	1414.6	1417	2.53D2	<0.002	0.0008F	0.01F	<0.02D2	<0.1D2	<0.0005	0.3F	<5	<0.05	0.06	158D2	<10D2	1.87D2	0.0014
		4-Nov-08	N	1414.6	1417	2.92	<0.002	0.0006F	0.007F	0.002F	<0.05	<0.0005	0.5F	<5	<0.05	0.05	127D2M3	<10D2	4.56M3	0.0012
		11-Nov-08	N	1414.6	1417	1.47	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	0.4F	<5M1	<0.05	0.02F	31.1M3	<10D1	19.2M3	0.0007
		18-Nov-08	N	1414.6	1417	1.06	<0.002V1	<0.002	0.009F	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	0.02F	39.9M3	<10D2V1	1.94	0.0009
		25-Nov-08	N	1414.6	1417	1.11	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	<1	<5	<0.05M1	0.02FM1	39.8M3	<10D1	0.88	0.0003F
		2-Dec-08	N	1414.6	1417	2.66	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	0.03F	83.3	6FD1	1.81	0.0006

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 11	9-Dec-08	N	1414.6	1417	2.07M2	<0.002	<0.002	0.004F	0.003F	<0.1D1	<0.0005	<1	<5M1	<0.05	0.03F	66.3M3	<10D1	1.44	0.0003F
		16-Dec-08	N	1414.6	1417	1.39	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	49.2	<10D1	0.86	0.0002F
		23-Dec-08	N	1414.6	1417	1.8	--	<0.002	<0.02	0.003F	--	<0.0005	<1	<5	--	0.03F	53.6	<10D1	1.1	0.0003F
		30-Dec-08	N	1414.6	1417	2	--	<0.002	<0.02	<0.01	--	<0.0005	<1	1F	--	0.01F	62.9	<10D1	1.32	0.003
		6-Jan-09	N	1414.6	1417	2.55	--	<0.002	0.004F	<0.01	--	<0.0005	<1	<5	--	0.03F	78.2	<10D1	1.61	0.0007
		13-Jan-09	N	1414.6	1417	4.1D1	<0.002	<0.002	<0.03D1	<0.02D1	<0.05	<0.0005	<2D1	<5	<0.1D1	0.03FD1	112D1	<10D1	1.86D1	0.0005
		20-Jan-09	N	1414.6	1417	3.68	--	0.0007F	<0.02	<0.01	--	0.0001F	<1	<5	--	0.04F	104D1	<10D1	2.47	0.0005
		27-Jan-09	N	1414.6	1417	4.02	--	0.0009F	<0.02	0.005FD1	--	<0.0005	0.3F	<5	--	0.04F	142D1	<10D1	3.04	0.0003F
		3-Feb-09	N	1414.6	1417	2.75	--	0.0007F	<0.02	<0.01	--	<0.0005	0.2F	<5	--	0.03F	99.8D1	<10D1	2.98	0.0005
		10-Feb-09	N	1414.6	1417	3.22	<0.002	0.0011F	<0.02	<0.01	<0.05	<0.0005	<1	<5H3	<0.05	0.03F	99.7	<10D2H3	3.18	0.0003F
		17-Feb-09	N	1414.6	1417	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 12	26-Aug-08	N	1454	1457	0.3FD1	0.0011F	0.0026	0.08D1	<0.05D1	0.06FD1	0.0054	109D1	6	<0.3D1M1	0.69D1	170D1M3	<3D1	.5D1M1	0.0056
		2-Sep-08	N	1454	1457	<0.2	0.0013F	<0.001	0.044	<0.01	0.01F	0.0002F	6.5	3F	0.01F	0.04F	1.8M3	1.2	<0.05	0.0001F
		9-Sep-08	N	1454	1457	0.03	0.0013	<0.001	0.035	<0.01	<0.05	0.0002	3.4	<5	<0.05	0.04	1.34	0.9	<0.05	0.0002
		16-Sep-08	N	1454	1457	0.04	<0.002	<0.001	0.023	<0.01	<0.05	0.0001	3.5	<5	<0.05	0.04	1.42	0.9	<0.05	<0.0005
		23-Sep-08	N	1454	1457	<0.2	<0.002	<0.001	0.022	<0.01	<0.05	0.0002	4.6	<5	<0.05	0.05	1.23	1	<0.05	0.0001
		30-Sep-08	N	1454	1457	<0.2	<0.002	<0.001	0.02	<0.01	<0.05	0.0001	3.7	<5	<0.05	0.04	1.05	0.7	<0.05	<0.0005
		7-Oct-08	N	1454	1457	<0.2	<0.002	<0.001	0.015F	<0.01	<0.05	0.0001F	3.3	<5	<0.05	0.03F	1	0.3F	<0.05	0.0001F
		14-Oct-08	N	1454	1457	<0.2	<0.002	<0.001	0.016F	<0.01	<0.05	<0.0005	2.5	<5	<0.05	0.03F	0.92	0.2F	<0.05	<0.0005
		21-Oct-08	N	1454	1457	<0.2	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	1.6	<5	<0.05	0.02F	0.81	0.2F	<0.05	<0.0005
		28-Oct-08	N	1454	1457	<0.2	<0.002	<0.002	0.012F	<0.01	<0.05	<0.0005	1.5	<5	<0.05	0.03F	0.94	0.2F	<0.05	<0.0005
		4-Nov-08	N	1454	1457	<0.2	<0.002	<0.002	0.012F	<0.01	<0.05	<0.0005	1.7	<5	<0.05	0.03F	1.1	0.1F	<0.05	<0.0005
		11-Nov-08	N	1454	1457	<0.2	<0.002	<0.002	0.01F	<0.01	<0.05	<0.0005	1.4	<5	<0.05	0.02F	1.27	0.2F	<0.05	<0.0005
		18-Nov-08	N	1454	1457	<0.2	<0.002V1	<0.002	0.01F	<0.01	<0.05	<0.0005	1.3	<5	<0.05	0.02F	1.23	0.1FV1	<0.05	<0.0005
		25-Nov-08	N	1454	1457	<0.2	<0.002	<0.002	0.011F	<0.01	<0.05	<0.0005	1.3	<5	<0.05	0.02F	1.52	0.2F	<0.05	<0.0005
		2-Dec-08	N	1454	1457	<0.2	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	0.9F	<5	<0.05	0.01F	1.3	0.2F	<0.05	<0.0005
		9-Dec-08	N	1454	1457	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	0.6F	<5	<0.05	0.01F	1.2	0.1F	<0.05	<0.0005
		16-Dec-08	N	1454	1457	<0.2	<0.002	<0.002	0.006F	<0.01	<0.05	<0.0005	0.7F	<5	<0.05	<0.05	1.34	0.1F	<0.05	<0.0005
		23-Dec-08	N	1454	1457	<0.2	--	<0.002	0.007F	0.003F	--	<0.0005	0.7F	<5	--	0.02F	1.52	0.1F	<0.05	<0.0005
		30-Dec-08	N	1454	1457	<0.2	--	<0.002	0.006F	<0.01	--	<0.0005	0.8F	1F	--	0.02F	1.69B7	<0.5	<0.05	<0.0005
		6-Jan-09	N	1454	1457	<0.2	--	<0.002	0.008F	<0.01	--	<0.0005	0.7F	<5	--	0.02F	1.44	<0.5	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 12	13-Jan-09	N	1454	1457	<0.2	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	0.7F	<5	<0.05	<0.05	1.82	0.1F	<0.05	<0.0005
		20-Jan-09	N	1454	1457	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	0.4F	<5	--	0.01F	1.51	<0.5	<0.05	<0.0005
		27-Jan-09	N	1454	1457	<0.2	--	<0.002	0.006F	0.002F	--	<0.0005	0.4F	<5	--	<0.05	1.91	<0.5	<0.05	<0.0005
		3-Feb-09	N	1454	1457	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	0.3F	<5	--	0.01F	1.91	<0.5	<0.05	<0.0005
		10-Feb-09	N	1454	1457	<0.2	--	<0.002	0.006F	<0.01	--	<0.0005	0.4F	<5	--	0.01F	1.96	<0.5	<0.05	<0.0005
		17-Feb-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1454	1457	<0.2	<0.002	<0.002	0.013F	<0.01	<0.05	<0.0005	0.5F	<3	<0.05	0.02F	3.02	<0.5	<0.05	<0.0005
		17-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1454	1457	<0.2	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	0.5F	<3	<0.05	0.02F	3.93	<0.5	<0.05	<0.0005
		14-Apr-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1454	1457	<0.2	<0.002	<0.002	0.006F	<0.01	<0.05	<0.0005	<1	<3	<0.05	0.02F	5.76	<0.5	<0.05	<0.0005
		12-May-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1454	1457	<0.2	<0.002	<0.002	0.009F	<0.01	0.01F	0.0003F	0.5F	<3	<0.05	0.05	21.2	<0.5	<0.05	0.0002F
		9-Jun-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1454	1457	<0.8D1	<0.002	<0.002	<0.02	<0.05D1	<0.3D1	0.0008V2	2.2	<3	<0.3D1	0.23	196D1	<0.5	<0.05	0.0002F
		7-Jul-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1454	1457	0.8FD1	<0.002	<0.002	<0.2D1	0.1<D1	<0.5D1	0.0005	4FD1	<3	<0.5D1	0.1FD1	453D1	<0.5	<0.5D1	0.0003F
		4-Aug-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 12	18-Aug-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1454	1457	<0.8D1	<0.002	<0.002	<0.08D1	<0.05D1	<0.3D1	0.0007	3FD1	<3	<0.5D1	0.24FD1	599D1	<0.5	0.1FD1	0.0007
		1-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1454	1457	0.5FD1	<0.02D1	<0.02D1	<0.2D1	0.1<D1	<0.5D1	0.001FD1	2FD1	<50D1	<0.5D1	0.1FD1	579D1	<10D1	<0.5D1	<0.005D1
		29-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1454	1457	<0.8D1	<0.002	<0.002	<0.08D1	<0.05D1	<0.3D1	0.0003F	1.5FD1	<3	<0.05	0.1D1	332D1	<0.5M2	<0.1D1	0.0002F
		27-Oct-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1454	1457	0.07F	<0.002	<0.002	<0.02	0.01FD1	<0.3D1M3	0.0004F	1.3	<3M1	<0.05	0.09	384D1	<0.5	0.03F	0.0002F
		24-Nov-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		1-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Dec-09	N	1454	1457	0.05F	<0.002	<0.002	0.004F	<0.05D1	0.22	0.0003F	1	<3	<0.05	0.06	297D1	<0.5	0.02F	0.0003F
		22-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		29-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-Jan-10	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12-Jan-10	N	1454	1457	0.07F	<0.002	<0.002	<0.08D1	<0.05D1	<0.3D1	0.0003F	0.9F	<3	<0.3D1	0.05	267D1	<0.5	<0.05	0.0002F
		19-Jan-10	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-Jan-10	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 13	26-Aug-08	FD	1454	1457	0.3FD1	0.001F	0.0026	0.07FD1	<0.05D1	0.05FD1	0.0051	104D1	6	<0.3D1	0.62D1	156D1	<3D1	1.5D1	0.0022
		2-Sep-08	FD	1454	1457	0.04F	0.0005F	<0.001	0.033	<0.01	<0.05	0.0002F	5.3	3FM1	0.01F	0.03F	2.15	1.1	<0.05	0.0002F
		9-Sep-08	FD	1454	1457	<0.2	0.0007	<0.001	0.025	<0.01	<0.05	0.0001	3.3	1	<0.05	0.05	0.74	0.9	<0.05	0.0003
		16-Sep-08	FD	1454	1457	0.04	<0.002	<0.001	0.026	<0.01	<0.05	<0.0005	4.5	<5	<0.05	0.03	0.54	0.9	<0.05	<0.0005
		23-Sep-08	FD	1454	1457	<0.2	<0.002	<0.001	0.01	<0.01	<0.05	<0.0005	2.4	<5	<0.05	0.03	0.38	0.5	<0.05	0.0002
		30-Sep-08	FD	1454	1457	<0.2	<0.002	<0.001	0.019	<0.01	<0.05	0.0001	5.1	<5	<0.05	0.04	0.39	1	<0.05	<0.0005
		7-Oct-08	FD	1454	1457	<0.2	<0.002	<0.001	0.014F	<0.01	<0.05	<0.0005	3.5	<5	<0.05	0.03F	0.3	1.4	<0.05	0.0001F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 13	14-Oct-08	FD	1454	1457	<0.2	<0.002	<0.001	0.012F	<0.01	<0.05	<0.0005	2.2	<5	<0.05	0.02F	0.43	0.3FM2	<0.05	<0.0005
		21-Oct-08	FD	1454	1457	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	<0.0005	2.2	<5	<0.05	0.02F	0.22	0.3F	<0.05	<0.0005
		28-Oct-08	FD	1454	1457	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	<0.0005	1.5	<5	<0.05	0.02F	0.24	0.3F	<0.05	<0.0005
		4-Nov-08	FD	1454	1457	<0.2	<0.002	<0.002	0.006F	<0.01	<0.05	<0.0005	1	<5	<0.05	0.02F	0.26	<0.5	<0.05	<0.0005
		11-Nov-08	FD	1454	1457	<0.2	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	1.4	<5	<0.05	0.02F	0.36	0.2F	<0.05	<0.0005
		18-Nov-08	FD	1454	1457	<0.2	<0.002V1	<0.002	0.008F	<0.01	<0.05	<0.0005	1.3	<5	<0.05	0.02F	0.55	0.2FV1	<0.05	<0.0005
		25-Nov-08	FD	1454	1457	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	1.3	<5	<0.05	0.02F	0.4	0.2F	<0.05	<0.0005
		2-Dec-08	FD	1454	1457	<0.2	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	1.2	<5	<0.05	<0.05	0.46	0.2F	<0.05	<0.0005
		9-Dec-08	FD	1454	1457	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	0.8F	<5	<0.05	0.02F	0.52	0.2F	<0.05	<0.0005
		16-Dec-08	FD	1454	1457	<0.2	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	0.6F	<5	<0.05	<0.05	0.79	<0.5	<0.05	<0.0005
		23-Dec-08	FD	1454	1457	<0.2	--	<0.002	0.006F	0.003F	--	<0.0005	0.7F	<5	--	0.02F	0.91	<0.5	<0.05	<0.0005
		30-Dec-08	FD	1454	1457	<0.2	--	<0.002	0.006F	<0.01	--	<0.0005	1.2	1F	--	0.02F	0.87B7	0.1F	<0.05	0.0001F
		6-Jan-09	FD	1454	1457	<0.2	--	<0.002	0.009F	<0.01	--	<0.0005	1.1	<5	--	0.02F	0.89	0.1F	<0.05	0.0001F
		13-Jan-09	FD	1454	1457	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	1	<5	<0.05	<0.05	1.55	0.1F	<0.05	0.0001F
		20-Jan-09	FD	1454	1457	<0.2	--	<0.002	0.008F	<0.01	--	<0.0005	1	<5	--	0.02F	1.51	0.1F	<0.05	<0.0005
		27-Jan-09	FD	1454	1457	<0.2	--	<0.002	0.011F	0.002F	--	<0.0005	1.4	1F	--	0.02F	1.76	0.15F	<0.05	<0.0005
		3-Feb-09	FD	1454	1457	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	0.6F	<5	--	0.01F	1.19	<0.5	<0.05	<0.0005
		10-Feb-09	FD	1454	1457	<0.2	<0.002	<0.002	0.004F	<0.01	<0.05	0.0001F	0.6F	<5H3	<0.05	0.02F	1.44	<0.5H3	<0.05	0.0001F
		17-Feb-09	FD	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 14	26-Aug-08	N	1927	1930	0.15F	<0.002	0.0019	0.087D1	<0.01	0.06FD1	0.0119	690D1	7	<0.05	0.13D1	1.43	1.4	<0.05	0.0011
		2-Sep-08	N	1927	1930	0.11F	<0.002	<0.001	0.025	<0.01	0.03F	0.0017	554	8	0.01F	0.01F	0.19	3	<0.05	0.0003F
		9-Sep-08	N	1927	1930	0.12	<0.002	<0.001	0.025	<0.01	0.01	0.0015	542	2	<0.05	<0.05	0.16	2.4	<0.05	0.0002
		16-Sep-08	N	1927	1930	0.13	<0.002	<0.001	0.02	<0.01	0.02	0.0014	586	1	<0.05	<0.05	0.22	2.5	<0.05	<0.0005
		23-Sep-08	N	1927	1930	0.1	<0.002	<0.001	0.01	<0.01	<0.05	0.002	603	<5	<0.05	<0.05	0.28	2.1	<0.05	0.0002
		30-Sep-08	N	1927	1930	0.09	<0.002	<0.001	<0.02	<0.01	<0.05	0.0028	535	<5	<0.05	<0.05	0.69	1.8	<0.05	0.0002
		7-Oct-08	N	1927	1930	0.07F	<0.002	<0.001	0.012F	<0.01	<0.05	0.003	543	1F	<0.05	<0.05	1.35	0.3F	<0.05	0.0003F
		14-Oct-08	N	1927	1930	0.07F	<0.002	<0.001	0.022	<0.01	<0.05	0.0036	552	<5	<0.05	<0.05	1.99	1	<0.05	0.0002F
		21-Oct-08	N	1927	1930	0.07F	<0.002	<0.002	0.011F	<0.01	<0.05	0.004	560	<5	<0.05	0.02F	2.44	1.6	<0.05	0.0002F
		28-Oct-08	N	1927	1930	0.13F	<0.002	<0.002	0.018F	0.002F	<0.05	0.004	474	<5	<0.05	0.02F	3.32	1.4	<0.05	0.0001F
		4-Nov-08	N	1927	1930	0.21	<0.002	<0.002	0.012F	<0.01	<0.05	0.0045	543	<5	<0.05	0.03F	4.63	1.7	<0.05	0.0001F
		11-Nov-08	N	1927	1930	0.16F	<0.002	<0.002	0.008F	<0.01	<0.05	0.0048	505	<5	<0.05	0.02F	4.66	1.6	<0.05	0.0002F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 14	18-Nov-08	N	1927	1930	0.36	<0.002V1	<0.002	0.011F	<0.01	<0.05	0.0049	550	<5	<0.05	0.03F	5.8	1.7V1	<0.05	0.0002F
		25-Nov-08	N	1927	1930	0.45	<0.002	<0.002	0.012F	<0.01	<0.05	0.0055	525	<5	<0.05	0.03F	6.84	2	<0.05	0.0002F
		2-Dec-08	N	1927	1930	0.49	<0.002	<0.002	0.008F	<0.01	<0.05	0.0054	449	<5	<0.05	0.02F	7.19	2	<0.05	0.0002F
		9-Dec-08	N	1927	1930	0.36	<0.002	<0.002	0.013F	0.003F	<0.05	0.0051	497	<5	<0.05	0.03F	8.13	2.1	<0.05	0.0002F
		16-Dec-08	N	1927	1930	0.54	<0.002	<0.002	0.008F	0.002F	<0.05	0.0048	463	<5	<0.05	0.02F	8.54	2.1	<0.05	0.0001F
		23-Dec-08	N	1927	1930	1	--	<0.002	0.011F	0.004F	--	0.0047	479	<5	--	0.02F	8.59	2.2	<0.05	0.0002F
		30-Dec-08	N	1927	1930	0.84	--	<0.002	0.008F	<0.01	--	0.0039	460	1F	--	0.03F	8.4B7	2.1	<0.05	0.0002F
		6-Jan-09	N	1927	1930	0.87	--	<0.002	0.013F	<0.01	--	0.0036	468	<5	--	0.01F	9.45	2.4	<0.05	0.0004F
		13-Jan-09	N	1927	1930	0.98	<0.002	<0.002	0.007F	<0.01	<0.05	0.0035	452	<5	<0.05	0.01F	8.89	2.2	<0.05	0.0003F
		20-Jan-09	N	1927	1930	0.83	--	<0.002	0.011F	<0.01	--	0.0067	468	1F	--	0.02F	8.75	2.2	<0.05	0.0002F
		27-Jan-09	N	1927	1930	0.89	--	<0.002	0.009F	0.004F	--	0.0033	441	1F	--	<0.05	10.3	2.5	<0.05	<0.0005
		3-Feb-09	N	1927	1930	1.08	--	<0.002	0.012F	<0.01	--	0.003	446	<5	--	0.02F	10.3	2.4	<0.05	0.0002F
		10-Feb-09	N	1927	1930	1.33	--	<0.002	0.012F	<0.01	--	0.003	420	<5	--	0.02F	10.9	2.6	<0.05	0.0001F
		17-Feb-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1927	1930	1.39	0.0004F	<0.002	0.015F	<0.01	<0.05	0.0028	404	<3	<0.05	0.02F	13.7	3.3	<0.05	0.0002F
		17-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1927	1930	1.59	<0.002	<0.002	0.013F	<0.01	<0.05	0.0031	476	<3	<0.05	0.02F	15.3	3.6	<0.05	0.0002F
		14-Apr-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1927	1930	1.68	<0.002	<0.002	0.011F	<0.01	<0.05	0.0027	440	<3	<0.05	0.02F	15.2	3.6	<0.05	0.0003F
		12-May-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1927	1930	2.03	<0.002	<0.002	0.012F	0.002F	<0.05	0.0028	375	<3	<0.05	0.02F	14.9	4.4	<0.05	0.0003F
		9-Jun-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	TEST 14	23-Jun-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1927	1930	2.59	<0.002	<0.002	0.007F	<0.01	<0.05	0.0025V3	354	<3	<0.05	0.02F	13.9	4.9	<0.05	<0.0005
		7-Jul-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1927	1930	4.85	0.0012F	<0.002	0.013F	0.004F	<0.05	0.0034	383	<3	<0.05	0.02F	24.2	8.9D1	0.04F	0.0003F
		4-Aug-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1927	1930	5.49	<0.002	<0.002	0.013F	0.003F	0.02F	0.0028	458	<3	0.02F	0.02F	21.2	10.2D1	0.1	0.0005
	TEST 9	26-Aug-08	N	888	891	0.09	<0.002	0.0241	0.12D2	<0.01	<0.5D2	<0.0005	<10D2	<5	<0.05	<0.3D2	<0.05	0.2	<0.05	<0.0005
		2-Sep-08	N	888	891	<0.2	<0.002	0.0488	0.069	<0.01	<0.05	<0.0005	5.3	3F	<0.05	<0.05	<0.05	0.8	<0.05	0.0002F
		9-Sep-08	N	888	891	0.08	<0.002	0.0249	0.036	<0.01	<0.05	<0.0005	1.1	1	<0.05	0.01	0.01	0.6M2	<0.05	<0.0005
		16-Sep-08	N	888	891	0.06	<0.002	0.0114	0.01	<0.01	<0.05	<0.0005	<2D2	<5	<0.05	0.01	0.02	0.3	<0.05	<0.0005
		23-Sep-08	N	888	891	0.1	<0.002	0.0457	0.013	<0.01	<0.05	<0.0005	0.6	<5	<0.05	<0.05	<0.05	0.8	<0.05	0.0001
		30-Sep-08	N	888	891	0.06	<0.002	0.0304	0.004	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.3	<0.05	0.0002
		7-Oct-08	N	888	891	<0.2	<0.002	0.0136	0.004F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	<0.5	<0.05	0.0001F
		14-Oct-08	N	888	891	0.1F	<0.002	0.0175	0.016F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	<0.5	0.02F	<0.0005
		21-Oct-08	N	888	891	0.05F	<0.002	0.0293	0.006F	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		28-Oct-08	N	888	891	0.07F	<0.002	0.0523	0.005F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		4-Nov-08	N	888	891	0.04F	<0.002	0.102	0.007F	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
	TEST 9S	11-Nov-08	N	888	891	0.05F	0.001F	0.258	0.029	<0.01	<0.05	<0.0005	1	<5	<0.05	<0.05	<0.05	1.6	<0.05	<0.0005
		18-Nov-08	N	888	891	<0.2	<0.002V1	0.0376	0.006F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.2FV1	<0.05	<0.0005
		25-Nov-08	N	888	891	0.05F	<0.002	0.0271	0.006F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		2-Dec-08	N	888	891	0.06F	<0.002	0.026	0.004F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		9-Dec-08	N	888	891	0.06F	<0.002	0.0144	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		16-Dec-08	N	888	891	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	888	891	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-005I	TEST 15	26-Aug-08	N	1317.28	1320.28	0.2	<0.002	0.0021	0.017F	<0.01	0.05	<0.0005	12.1	26	<0.05	<0.05	0.04F	1.9	0.11	0.0003F
		2-Sep-08	N	1317.28	1320.28	0.12F	<0.002	0.001	0.024	<0.01	0.04F	<0.0005	16.3	16	0.01F	<0.05	0.01F	1.3	<0.05	<0.0005
		9-Sep-08	N	1317.28	1320.28	0.1	<0.002	0.0008	0.024	<0.01	0.03	<0.0005	18	10	<0.05	<0.05	0.02	1	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 15	16-Sep-08	N	1317.28	1320.28	0.13	<0.002	0.0007	0.019	<0.01	0.02	<0.0005	17.6	5	<0.05	<0.05	0.01	0.6	<0.05	<0.0005
		23-Sep-08	N	1317.28	1320.28	0.08	<0.002	0.0007	0.007	<0.01	0.02	<0.0005	15.6	3	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		30-Sep-08	N	1317.28	1320.28	0.09	<0.002	0.0006	0.004	<0.01	0.03	<0.0005	13.1	1	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		7-Oct-08	N	1317.28	1320.28	0.06F	<0.002	<0.001	0.008F	<0.01	0.02F	<0.0005	17.7	1F	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		14-Oct-08	N	1317.28	1320.28	0.06F	<0.002	<0.001	0.011F	<0.01	0.02F	<0.0005	12.2	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		21-Oct-08	N	1317.28	1320.28	0.07F	<0.002	<0.002	0.006F	<0.01	0.02F	<0.0005	11.5	<5	<0.05	<0.05	0.05	0.5	<0.05	<0.0005
		28-Oct-08	N	1317.28	1320.28	0.08F	<0.002	<0.002	0.012F	<0.01	0.02F	<0.0005	9.7	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		4-Nov-08	N	1317.28	1320.28	0.05F	<0.002	<0.002	0.005F	<0.01	0.02F	<0.0005	10.4	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		11-Nov-08	N	1317.28	1320.28	0.05F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	9.2	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		18-Nov-08	N	1317.28	1320.28	0.04F	<0.002V1	<0.002	0.005F	<0.01	0.02F	<0.0005	9.6	<5	<0.05	<0.05	<0.05	0.5V1	<0.05	<0.0005
		25-Nov-08	N	1317.28	1320.28	0.08F	<0.002	<0.002	0.005F	<0.01	0.01F	<0.0005	7.7	<5	<0.05	<0.05	0.02F	0.4F	<0.05	0.0001F
		2-Dec-08	N	1317.28	1320.28	0.06F	<0.002	<0.002	<0.02	<0.01	0.01F	<0.0005	8.6	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		9-Dec-08	N	1317.28	1320.28	<0.2	<0.002	<0.002	0.003F	<0.01	0.01F	<0.0005	7.4	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		16-Dec-08	N	1317.28	1320.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1317.28	1320.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 16	26-Aug-08	N	1428.18	1431.18	0.34D1	0.0053	0.0836	0.218D1	<0.02D1	0.04FD1	<0.0005	25.4D1	53	<0.1D1	<0.1D1	0.17D1	3	1.4D1	0.0049
		2-Sep-08	N	1428.18	1431.18	0.05F	0.0017F	0.0239	0.071	<0.01	<0.05	<0.0005	<1	1F	<0.05	<0.05	0.03F	0.4F	0.03F	0.0006
		9-Sep-08	N	1428.18	1431.18	0.03	0.0009	0.0276	0.155B7	<0.01	<0.05	<0.0005	<1	<5	<0.05	0.02	0.04	0.2	0.16	0.0011
		16-Sep-08	N	1428.18	1431.18	0.06	<0.002	0.0173	0.088	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.03	0.1	0.17	0.0016
		23-Sep-08	N	1428.18	1431.18	<0.2	<0.002	0.0066	0.2	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.01	<0.5	0.04	0.001
		30-Sep-08	N	1428.18	1431.18	<0.2	<0.002	0.0034	0.085	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.02	<0.5	0.02	0.0001
		7-Oct-08	N	1428.18	1431.18	<0.2	<0.002	0.0026	0.096	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.01F	<0.5	0.05	0.0003F
		14-Oct-08	N	1428.18	1431.18	<0.2	<0.002	0.0017	0.138	<0.01	0.01F	<0.0005	<1	<5	<0.05	<0.05	0.04F	<0.5	0.45	0.0005
		21-Oct-08	N	1428.18	1431.18	<0.2	0.0005F	0.0297	0.18	<0.01	<0.05	<0.0005	0.7F	<5	<0.05	<0.05	0.04F	0.3F	0.11	0.0004F
		28-Oct-08	N	1428.18	1431.18	<0.2	<0.002	0.0149	0.124	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.02F	0.2F	0.03F	0.0003F
		4-Nov-08	N	1428.18	1431.18	<0.2	<0.002	0.0018F	0.209	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	<0.05	0.04F	<0.5	0.04F	0.0002F
	TEST 16S	11-Nov-08	N	1428.18	1431.18	<0.2	0.0007F	0.0442	0.129	<0.01	<0.05	<0.0005	0.8F	1F	<0.05	<0.05	0.01F	0.2F	0.18	0.0005
		18-Nov-08	N	1428.18	1431.18	<0.2	<0.002V1	0.0148	0.198	<0.01	<0.05	<0.0005	0.4F	2F	<0.05	<0.05	0.03F	<0.5V1	0.19	0.0008
		25-Nov-08	N	1428.18	1431.18	<0.2	<0.002	0.0093	0.091	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.02F	<0.5	0.11	0.0003F
		2-Dec-08	N	1428.18	1431.18	0.04F	<0.002	0.0099	0.07	<0.01	<0.05	<0.0005	<1	1F	<0.05	<0.05	0.02F	<0.5	0.22	0.0008
		9-Dec-08	N	1428.18	1431.18	0.04F	<0.002	0.0084	0.078	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.02F	<0.5	0.58	0.0013

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 16S	16-Dec-08	N	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 17	26-Aug-08	FD	1428.18	1431.18	0.34D1	0.0031	0.0555	0.196D1	<0.02D1	0.02FD1	<0.0005	20.3D1	45	<0.1D1	<0.1D1	0.14D1	2.3	1.38D1	0.005
		2-Sep-08	FD	1428.18	1431.18	0.08F	0.0023	0.037	0.194	<0.01	<0.05	<0.0005	1	3F	0.01F	<0.05	0.04F	0.7	0.77	0.0035
		9-Sep-08	FD	1428.18	1431.18	0.03	0.0012	0.0413	0.089	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.02	0.3	0.06	0.0002
		16-Sep-08	FD	1428.18	1431.18	0.07	0.0011	0.0453	0.087	<0.01	<0.05	<0.0005	<1	1	<0.05	<0.05	0.03	0.4	0.18	0.0015
		23-Sep-08	FD	1428.18	1431.18	0.04	0.0005	0.0216	0.115	<0.01	<0.05	<0.0005	0.3	<5	<0.05	<0.05	<0.05	0.1	0.28	0.0012
		30-Sep-08	FD	1428.18	1431.18	<0.2	0.0013	0.0534	0.234	<0.01	<0.05	<0.0005	0.5	<5	<0.05	<0.05	0.02	0.3	0.26	0.0012
		7-Oct-08	FD	1428.18	1431.18	<0.2	0.0012F	0.0459	0.194	<0.01	<0.05	<0.0005	0.4F	1F	<0.05	<0.05	0.01F	1.3	0.36	0.0012
		14-Oct-08	FD	1428.18	1431.18	<0.2	0.001F	0.0372	0.171	<0.01	0.01F	<0.0005	0.5F	<5	<0.05	<0.05	<0.05	<0.5	0.25	0.0007
		21-Oct-08	FD	1428.18	1431.18	<0.2	0.0006F	0.018	0.224	<0.01	<0.05	<0.0005	0.6F	<5	<0.05	<0.05	<0.05	<0.5	0.23	0.0007
		28-Oct-08	FD	1428.18	1431.18	<0.3D2	0.0004F	0.0153	0.31	<0.01	<0.1D2	<0.0005	0.6F	<5	<0.05	<0.05	<0.1D2	<0.5	<0.1D2	0.0004F
		4-Nov-08	FD	1428.18	1431.18	<0.2	<0.002	0.0112	0.351	<0.01	<0.05	<0.0005	0.8F	1F	<0.05	<0.05	0.03F	<0.5	0.29	0.0016
	TEST 17S	11-Nov-08	FD	1428.18	1431.18	<0.2	<0.02D2	0.028D2	0.296	<0.01	<0.05	<0.005D2	1.6	<5	<0.05	<0.05	0.02F	<0.5	0.45	0.001FD2
		18-Nov-08	FD	1428.18	1431.18	0.05F	<0.002V1	0.0155	0.228	<0.01	<0.05	<0.0005	0.7F	<5	<0.05	<0.05	0.01F	<0.5V1	0.66	0.0015
		25-Nov-08	FD	1428.18	1431.18	0.06F	<0.002	0.0095	0.117	<0.01	0.01F	<0.0005	0.6F	<5	<0.05	<0.05	0.03F	<0.5	0.39	0.0012
		2-Dec-08	FD	1428.18	1431.18	0.04F	<0.002	0.0124	0.244	<0.01	<0.05	<0.0005	0.7F	1F	<0.05	<0.05	0.02F	<0.5	0.49	0.0013
		9-Dec-08	FD	1428.18	1431.18	0.04F	<0.002	0.0109	0.187	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	0.01F	0.01F	<0.5	0.35	0.0011
		16-Dec-08	FD	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	FD	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 18	26-Aug-08	N	1499	1502	<0.2	<0.002	0.0058	<0.02	<0.01	0.01F	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		2-Sep-08	N	1499	1502	0.14F	<0.002	0.0083	0.031	<0.01	<0.05	<0.0005	10.2	17	0.01F	<0.05	0.02F	1.8	0.06	0.0021
		9-Sep-08	N	1499	1502	0.12	0.0006	0.008	<0.02	<0.01	<0.05	<0.0005	<1V1	1	<0.05	0.01	0.01	1.5	0.03	0.0005
		16-Sep-08	N	1499	1502	0.09	<0.002	0.0072	0.012	<0.01	<0.05	<0.0005	0.4	1	<0.05	<0.05	0.01	1.8	0.02	0.0006
		23-Sep-08	N	1499	1502	0.04	<0.002	0.0052	0.003	<0.01	<0.05	<0.0005	0.2	<5	<0.05	<0.05	<0.05	1.1	0.03	0.0004
		30-Sep-08	N	1499	1502	0.04	0.0005	0.0143	<0.02	<0.01	<0.05	<0.0005	0.4	<5	<0.05	<0.05	0.01	2.3	<0.05	0.0004
		7-Oct-08	N	1499	1502	<0.2	0.0004F	0.0125	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.7	<0.05	0.0003F
		14-Oct-08	N	1499	1502	0.09F	<0.002	0.0111	0.011F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	1.1	0.04F	0.0004F
		21-Oct-08	N	1499	1502	0.2	0.0004F	0.0143	0.008F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	1.1	0.04F	0.0011
		28-Oct-08	N	1499	1502	0.17F	<0.002	0.011	0.007F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	1.1	0.02F	0.0008
		4-Nov-08	N	1499	1502	0.04F	<0.002	0.0082	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	0.01F	<0.05	0.8	<0.05	0.0003F

--	Not requested.
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B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 18S	11-Nov-08	N	1499	1502	0.36	<0.01D2	0.018D2	0.011F	<0.01	<0.05	<0.003D2	<1	<5	<0.05	<0.05	<0.05	1.8	0.23	0.0019FD2
		18-Nov-08	N	1499	1502	0.04F	<0.002V1	0.0051	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.5V1	0.02F	0.0002F
		25-Nov-08	N	1499	1502	0.07F	<0.002	0.0046	0.005F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.01F	0.6	0.04F	0.0003F
		2-Dec-08	N	1499	1502	0.28	<0.002	0.0057	0.004F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.8	0.14	0.0015
		9-Dec-08	N	1499	1502	0.15F	<0.002	0.0029	0.005F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.4F	0.09	0.0008
		16-Dec-08	N	1499	1502	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1499	1502	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 19	26-Aug-08	N	1586.46	1589.46	0.03F	<0.002	0.0078	0.257	<0.01	<0.05	<0.0005	17.8	24	<0.05	<0.05	0.01F	1.1	<0.05	<0.0005
		2-Sep-08	N	1586.46	1589.46	0.16F	0.0004F	0.0073	0.063	<0.01	<0.05	<0.0005	2.3	4F	0.01F	<0.05	0.03F	3.4M2	0.06	0.0001F
		9-Sep-08	N	1586.46	1589.46	0.15	0.0005	0.0078	0.047	<0.01	<0.05	<0.0005	0.3	<5	<0.05	<0.05V1	0.01	2.7	0.06	0.0002
		16-Sep-08	N	1586.46	1589.46	0.06	<0.002	0.0053	0.019	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.01	1.5	<0.05	<0.0005
		23-Sep-08	N	1586.46	1589.46	0.08	<0.002	0.0056	0.012	<0.01	<0.05	<0.0005	0.2	<5	<0.05	<0.05	<0.05	1.3	0.04	<0.0005
		30-Sep-08	N	1586.46	1589.46	0.17	0.0007	0.025	0.024	<0.01	0.01	<0.0005	0.4	<5	<0.05	<0.05	0.02	3.1	0.06	0.0002
		7-Oct-08	N	1586.46	1589.46	0.12F	<0.002	0.0083	0.017F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.1F	0.08	0.0002F
		14-Oct-08	N	1586.46	1589.46	<0.2	<0.002	0.0043	0.009F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		21-Oct-08	N	1586.46	1589.46	0.12F	<0.002	0.0069	0.006F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.4F	0.04F	0.0001F
		28-Oct-08	N	1586.46	1589.46	<0.2	<0.002	0.0033	0.004F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		4-Nov-08	N	1586.46	1589.46	<0.2	<0.002	0.0048	0.006F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
	TEST 19S	11-Nov-08	N	1586.46	1589.46	0.14F	<0.002	0.0135	0.014F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	1.1	0.11	0.0002F
		18-Nov-08	N	1586.46	1589.46	0.08F	<0.002V1	0.0046	0.005F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.2FV1	0.08	<0.0005
		25-Nov-08	N	1586.46	1589.46	0.08F	<0.002	0.0056	0.008F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.3F	0.05	<0.0005
		2-Dec-08	N	1586.46	1589.46	0.11F	<0.002	0.0022	<0.02	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	<0.05	0.2F	0.07	<0.0005
		9-Dec-08	N	1586.46	1589.46	0.06F	<0.002	0.0015F	0.005F	<0.01	<0.05	<0.0005	<1	<5	<0.05	<0.05	0.01F	0.1F	0.04F	<0.0005
		16-Dec-08	N	1586.46	1589.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1586.46	1589.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 20	26-Aug-08	N	1632.56	1635.56	<0.3D1	0.0008F	0.0035	0.147	<0.02D1	0.05	0.0144	91.3	37	<0.1D1	0.27	5.1D1	0.6	<0.1D1	0.0003F
		2-Sep-08	N	1632.56	1635.56	0.04F	0.0004F	<0.001	0.164	<0.01	0.02F	0.0002F	2.1	1F	<0.05	<0.05	0.13	0.7	<0.05	<0.0005
		9-Sep-08	N	1632.56	1635.56	0.04	<0.002	<0.001	0.161	<0.01	<0.05	0.0003	2.1	5	<0.05	0.02	0.43	0.8	<0.05	<0.0005
		16-Sep-08	N	1632.56	1635.56	0.09	<0.002	<0.001	0.136	<0.01	0.01	0.0005	3.3	5	<0.05	0.02	1.02	1	<0.05	<0.0005
		23-Sep-08	N	1632.56	1635.56	0.06	<0.002	<0.001	0.071	<0.01	<0.05	0.0003	1.1	<5	<0.05	<0.05	0.68	0.3	<0.05	0.0001
		30-Sep-08	N	1632.56	1635.56	0.11	<0.002	<0.001	0.101	<0.01	<0.05	0.0006	2	1	0.01	0.02	1.7	0.4	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 20	7-Oct-08	N	1632.56	1635.56	0.1F	<0.002	<0.001	0.086	<0.01	<0.05	0.0004F	1.2	<5	<0.05	<0.05	1.67	0.1F	<0.05	0.0001F
		14-Oct-08	N	1632.56	1635.56	0.16F	<0.002	<0.001	0.067	<0.01	<0.05	0.001	2.7	3F	<0.05	0.02F	3.58	0.1F	<0.05	0.0002F
		21-Oct-08	N	1632.56	1635.56	0.2	<0.002	<0.002	0.042	<0.01	<0.05	0.0013	3.4	2F	<0.05	0.03F	4.5	0.2F	<0.05	0.0002F
		28-Oct-08	N	1632.56	1635.56	0.18F	<0.002	<0.002	0.056	<0.01	<0.05	0.0014	3	<5	<0.05	0.02F	4.86	0.2F	<0.05	0.0001F
		4-Nov-08	N	1632.56	1635.56	0.18F	<0.002	<0.002	0.032	<0.01	<0.05	0.0013	3	<5	<0.05	0.03F	4.86	0.4F	<0.05	0.0004F
	TEST 20S	11-Nov-08	N	1632.56	1635.56	0.21	<0.002	<0.002	0.041	<0.01	<0.05	0.0044	8.2	6	<0.05	0.07	9.72	0.7	<0.05	<0.0005
		18-Nov-08	N	1632.56	1635.56	0.08F	<0.002V1	<0.002	0.108	<0.01	<0.05	0.0012	1.9	1F	<0.05	0.02F	4.55	0.1FV1	<0.05	<0.0005
		25-Nov-08	N	1632.56	1635.56	0.13F	<0.002	<0.002	0.074	<0.01	<0.05	0.0013	1.9	<5	<0.05	0.03F	5.97	0.2F	<0.05	<0.0005
		2-Dec-08	N	1632.56	1635.56	0.13F	<0.002	<0.002	0.057	<0.01	<0.05	0.001	1.5	<5	<0.05	0.02F	5.92	0.2F	<0.05	<0.0005
		9-Dec-08	N	1632.56	1635.56	0.12F	<0.002	<0.002	0.067	<0.01	<0.05	0.001	0.9F	<5	<0.05	0.02F	6.78	0.2F	<0.05	<0.0005
		16-Dec-08	N	1632.56	1635.56	0.1F	<0.002	<0.002	0.053	<0.01	<0.05	0.0009	1.1	<5	<0.05	0.01F	7.35M3	0.2F	<0.05	<0.0005
		23-Dec-08	N	1632.56	1635.56	0.16F	--	<0.002	0.039	0.003F	--	0.0009	1.2	<5	--	0.02F	8.11M3	0.1FD1	0.03F	<0.0005
		30-Dec-08	N	1632.56	1635.56	0.19F	--	<0.002	0.049	<0.01	--	0.0012	1.6	<5	--	0.03F	12.1B7M3	0.2F	<0.05	<0.0005
		6-Jan-09	N	1632.56	1635.56	0.19F	--	<0.002	0.05	<0.01	--	0.0012	1.5	<5M1	--	0.02F	13.5M3	0.2F	0.04F	<0.0005
		13-Jan-09	N	1632.56	1635.56	0.18FM1	<0.002	<0.002	0.047	<0.01	<0.05	0.0012	1.5M1	<5	<0.05	0.02F	14.1M3	0.2F	<0.05	<0.0005
		20-Jan-09	N	1632.56	1635.56	0.28	--	<0.002	0.048	<0.01	--	0.0011	1.5	<5	--	0.03F	16.2M3	<3D1	0.06	<0.0005
		27-Jan-09	N	1632.56	1635.56	0.27	--	<0.002	0.053	0.002F	--	0.001	1.3	1F	--	0.02F	17	<3D1	0.05	<0.0005
		3-Feb-09	N	1632.56	1635.56	0.32	--	<0.002	0.051	<0.01	--	0.001	1.8	<5	--	0.03F	20.3M3	<3D1	0.08	<0.0005
		10-Feb-09	N	1632.56	1635.56	0.28	<0.002	<0.002	0.048	<0.01	<0.05	0.0012	1.1	<5H3	<0.05	0.03F	20.2	<3D2H3	0.07	<0.0005
		17-Feb-09	N	1632.56	1635.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 21	26-Aug-08	N	1652	1654.93	0.84	0.0009F	0.0048	0.091	<0.01	0.04F	0.073	49.5	14	<0.05	0.29	11.7	2.4	<0.05	0.0021
		2-Sep-08	N	1652	1654.93	0.71	0.0011F	0.0006F	0.035	<0.01	0.01F	0.0013	2	<5	0.01F	0.01F	0.47	3.3	<0.05	0.001
		9-Sep-08	N	1652	1654.93	0.47	0.0007	<0.001	0.051	<0.01	<0.05	0.0013	1.8	1	<0.05	0.02	0.97	1.4	<0.05	<0.0005
		16-Sep-08	N	1652	1654.93	1.85	<0.002	0.0018	0.096	0.003	<0.05	0.01	14	7	<0.05	0.12	9.41M3	2.7	0.03	0.0002
		23-Sep-08	N	1652	1654.93	2.25	<0.002	0.0012	0.066	<0.01	0.01	0.0091	10.8	2	<0.05	0.12	11.8M3	2.3D2	0.03M3	0.0003
		30-Sep-08	N	1652	1654.93	7.61M3	<0.002	0.0041	0.059	0.003	<0.05	0.0254	25.9	<5	<0.05	0.36	47.3M3	9.2D1	0.11	0.0008
		7-Oct-08	N	1652	1654.93	6.61M3	<0.002	0.0051	0.095	<0.01	<0.05	0.0131	13.8	<5	<0.05	0.27	59.8M3	6.9D1	0.22	0.0006
		14-Oct-08	N	1652	1654.93	4.01M3	<0.002	0.0007F	0.05	0.007F	<0.3D1	0.0032	6.1	<5	<0.05	0.1	235D1M3	2.2FD1	1.82	0.0003F
		21-Oct-08	N	1652	1654.93	2.32	<0.002	0.002	0.033	<0.01	<0.05	0.001	2	1F	<0.05	0.06	26.7M3	2.4FD1	0.16	0.0003F
		28-Oct-08	N	1652	1654.93	4.37M3	<0.002	0.0061	0.037	<0.01	<0.05	0.0017	3.6	1F	<0.05	0.16	75.9M3	3.9D2	0.45	0.0006
		4-Nov-08	N	1652	1654.93	6.12M3	<0.002	0.0131	0.032	<0.01	<0.05	0.0018	3.3	1F	<0.05	0.22	114D2M3	4.5D1	1.12	0.0012

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 21	11-Nov-08	N	1652	1654.93	3.42	<0.002	0.0113	0.038	<0.01	<0.05	0.0009	1.3	1F	<0.05	0.12	71.4M3	2.3FD2	0.77	0.0005
		18-Nov-08	N	1652	1654.93	3.91M3	<0.002	0.0128	0.032	<0.01	<0.05	0.0009	1.2	1F	<0.05	0.13	90.8M3	2.4FD2	1.3	0.0006
		25-Nov-08	N	1652	1654.93	0.56	<0.002	0.0034	0.036	<0.01	<0.05	0.0002F	0.3F	<5	<0.05	0.02F	13.8M3	<3D1	0.4	0.0007
		2-Dec-08	N	1652	1654.93	1.48	<0.002	0.0038	0.034	0.003F	<0.05	0.0005	0.6F	<5	<0.05	0.04F	25.1M3	1.4FD1	1.55	0.0007
		9-Dec-08	N	1652	1654.93	0.82	<0.002	0.0035	0.027	<0.01	<0.05	0.0003F	0.3F	<5M1	<0.05	0.02F	12.1M3	0.5FD1	1.3	0.0004F
		16-Dec-08	N	1652	1654.93	3.51	<0.002	0.0093	0.047	0.002F	<0.05	0.0009	1	<5	<0.05	0.09	68.8	1.9FD1	1.61	0.0006
		23-Dec-08	N	1652	1654.93	2.35	--	0.0111	0.035	0.004F	--	0.0005	0.4F	<5	--	0.07	51.9	1FD1	1.14	0.0004F
		30-Dec-08	N	1652	1654.93	2.47	--	0.0103	0.024	<0.01	--	0.0004F	0.5F	<5	--	0.07	52.5B7	1FD1	1.98	0.0004F
		6-Jan-09	N	1652	1654.93	3.65	--	0.0173	0.03	<0.01	--	0.0005	0.5F	<5	--	0.09	72.2	1FD1	2.6	0.0006
		13-Jan-09	N	1652	1654.93	4	<0.002	0.0161	0.034	<0.01	<0.05	0.0004F	0.3F	<5	<0.05	0.07	59.1	1FD1	2.74	0.0005
		20-Jan-09	N	1652	1654.93	4.16	--	0.018D1	0.031	<0.01	--	0.0004F	0.4F	<5	--	0.08	58.3	1FD1	2.86	0.0007
		27-Jan-09	N	1652	1654.93	4.98	--	0.0206	0.031	0.005F	--	0.0004F	0.3F	<5	--	0.08	61.9M3	<5D1	3.32	0.0003F
		3-Feb-09	N	1652	1654.93	3.5	--	0.0155	0.035	<0.01	--	0.0003F	0.3F	<5	--	0.06	46.4	<5D1	2.87	0.0004F
		10-Feb-09	N	1652	1654.93	4.89	--	0.015	0.04	<0.01	--	0.0003F	0.7F	<5	--	0.08	52.1	<5D1	3.58	0.0002F
		17-Feb-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1652	1654.93	5.9	<0.002	0.0181	0.034	<0.01	<0.05	0.0003F	0.3F	<3	<0.05	0.06	42.9	0.3F	5.84	0.0004F
		17-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1652	1654.93	7.12	<0.002	0.016	0.024	<0.01	<0.05	0.0002F	0.2F	<3	0.01F	0.06	32.6	0.1F	6.67	0.0005
		14-Apr-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1652	1654.93	9.46	<0.002	0.0138	0.028	<0.01	<0.05	0.0002F	<1	<3	<0.05	0.05	26.4	0.2F	10.8	0.0001F
		12-May-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1652	1654.93	9.78	<0.01D1	0.022	0.033	<0.01	<0.05	0.0003F	<1	<3	<0.05	0.05	30.3	0.3F	13.2	0.0003F
		9-Jun-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 21	16-Jun-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1652	1654.93	10.2	<0.002	0.0168	0.034	<0.01	<0.05	0.0002FV3	<1	<3	0.01F	0.05	21.2	0.2F	17.7	0.001
		7-Jul-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1652	1654.93	15.2	<0.002	0.0297	0.035	<0.01	0.01F	0.0002F	<1	<3	<0.05	0.05	27.1	0.2F	22.3	0.0003F
		4-Aug-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1652	1654.93	4.17	<0.002	0.0102	0.031	<0.01	0.02F	0.0002F	0.2F	<3	<0.05	0.03F	13	0.2F	20.7	0.0005
	TEST 22	26-Aug-08	N	1654.93	1659.8	<0.2	0.0025	0.0049	0.125	<0.01	0.08	0.107	56.8	21	<0.05	0.27	1.62	3.6	<0.05	<0.0005
		2-Sep-08	N	1654.93	1659.8	0.06F	0.001F	0.0013	0.105	<0.01	0.02F	0.0061	5.3	<5	0.01F	0.02F	0.59	3.8	<0.05	0.0003F
		9-Sep-08	N	1654.93	1659.8	0.05	0.0008	<0.001	0.168	<0.01	<0.05	0.0042	3	<5	<0.05	0.03	0.63	2.3	<0.05	0.0001
		16-Sep-08	N	1654.93	1659.8	0.05	0.0004	<0.001	0.106	0.003	<0.05	0.0039	2.6	1	<0.05	0.02	0.67	2	<0.05	0.0001
		23-Sep-08	N	1654.93	1659.8	0.06	<0.002	<0.001	0.109	<0.01	0.01	0.0035	2.5	<5	<0.05	0.02	0.8	0.9D2	<0.05	0.0001
		30-Sep-08	N	1654.93	1659.8	0.09	<0.002	0.0009	0.07	<0.01	<0.05	0.0132	8.8	1	<0.05	0.07	1.28	2.7	<0.05	<0.0005
		7-Oct-08	N	1654.93	1659.8	0.09F	<0.002	<0.001	0.073	<0.01	0.01F	0.0136	8.5	2F	<0.05	0.08	1.64	1.5	<0.05	0.0001F
		14-Oct-08	N	1654.93	1659.8	0.08F	<0.002	<0.001	0.082	<0.01	<0.05	0.0104	7	<5	<0.05	0.07	1.88M3	1.6	<0.05	<0.0005
		21-Oct-08	N	1654.93	1659.8	0.08F	<0.002	0.0005F	0.153	<0.01	<0.05	0.0078	4.9	<5	<0.05	0.05	2.56	1.6M1	<0.05	<0.0005
		28-Oct-08	N	1654.93	1659.8	0.13F	<0.002	<0.002	0.138	<0.01	<0.05	0.0127	6.3	<5	<0.05	0.07	2.56	1.6	<0.05	0.0003F
		4-Nov-08	N	1654.93	1659.8	0.09F	<0.002	<0.002	0.062	<0.01	<0.05	0.0185	7.9	<5	<0.05	0.1	4.21M3	1.8	<0.05	0.0001F
	TEST 22S	11-Nov-08	N	1654.93	1659.8	0.04F	<0.002	0.0005F	0.094	<0.01	<0.05	0.014	7.3	<5	<0.05	0.08	3.31	3.5	<0.05	<0.0005
		18-Nov-08	N	1654.93	1659.8	<0.2	<0.002	<0.002	0.121	<0.01	<0.05	0.0046	2.8	<5	<0.05	0.03F	2.26M3	1.5	<0.05	0.0001F
		25-Nov-08	N	1654.93	1659.8	<0.2	<0.002	<0.002	0.13	<0.01	<0.05	0.0037	2.1	<5	<0.05	0.03F	2.21	1.1	<0.05	0.0002F
		2-Dec-08	N	1654.93	1659.8	0.03F	<0.002	<0.002	0.063	0.002F	<0.05	0.0041	2	<5	<0.05	0.03F	2.74	0.8	<0.05	<0.0005
		9-Dec-08	N	1654.93	1659.8	<0.2	<0.002	<0.002	0.091	<0.01	<0.05	0.0049	2	<5	<0.05	0.03F	3.34	0.8	<0.05	<0.0005
		16-Dec-08	N	1654.93	1659.8	<0.2	<0.002	<0.002	0.061	<0.01	<0.05	0.004	1.5	<5	<0.05	0.03F	3.71	0.6	<0.05	<0.0005
		23-Dec-08	N	1654.93	1659.8	0.06F	--	<0.002	0.063	0.003F	--	0.0039	1.6	<5	--	0.03F	3.52	0.6	<0.05	<0.0005
		30-Dec-08	N	1654.93	1659.8	0.1F	--	<0.002	0.043	<0.01	--	0.005	2.2	1F	--	0.05	5.69B7	0.7	<0.05	<0.0005
		6-Jan-09	N	1654.93	1659.8	0.1F	--	<0.002	0.044	<0.01	--	0.0041	1.6	<5	--	0.03F	5.68	0.6	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 22S	13-Jan-09	N	1654.93	1659.8	0.12F	<0.002	<0.002	0.021	<0.01	<0.05	0.0042	1.7	<5	<0.05	0.04F	6.1	0.5	<0.05	<0.0005
		20-Jan-09	N	1654.93	1659.8	0.17F	--	<0.002	0.028	<0.01	--	0.0049	2	<5	--	0.04F	7.67	0.7	<0.05	<0.0005
		27-Jan-09	N	1654.93	1659.8	0.31	--	<0.002	0.04	0.002F	--	0.0052	2	<5	--	0.04F	9.07	0.8	<0.05	<0.0005
		3-Feb-09	N	1654.93	1659.8	0.37	--	<0.002	0.022	<0.01	--	0.0047	2	<5	--	0.04F	10.3	0.8	<0.05	<0.0005
		10-Feb-09	N	1654.93	1659.8	0.56	<0.002	<0.002	0.021	<0.01	<0.05	0.0069	2.8	<5H3	<0.05	0.06	17.2	1.3H3	<0.05	<0.0005
		17-Feb-09	N	1654.93	1659.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 23	26-Aug-08	N	1759.23	1761.23	2.97	<0.002	0.0025	0.099	0.003F	0.05	0.0323	66	30	<0.05	0.28	53	1.2FD1	2.69	0.0043
		2-Sep-08	N	1759.23	1761.23	0.42	0.0009F	<0.001	0.063	<0.01	0.01F	0.0009	3.8	<5	<0.05	0.02F	6.91	0.4F	0.07	<0.0005
		9-Sep-08	N	1759.23	1761.23	0.61	0.0008	<0.001	0.073	<0.01	<0.05	0.0011	3.6	<5	<0.05	0.03	13.7	0.5	0.09	0.0004
		16-Sep-08	N	1759.23	1761.23	5.16	<0.002	0.0005	0.031	0.01	<0.1D1	0.0119	22.3	1	<0.05	0.2	111D1	4D1	2.13	0.0005
		23-Sep-08	N	1759.23	1761.23	10.2D2	<0.002	0.0006	0.11D2	0.02D2	0.08D2	0.0141	13D2	<5	<0.3D2	0.37D2	409D2	5D2	3.6D2	0.0003
		30-Sep-08	N	1759.23	1761.23	5.36	0.0011	0.001	0.019	0.011	<0.3D1	0.0045	9.1	<5	<0.05	0.13	224D1	5D1	3.27	0.0004
		7-Oct-08	N	1759.23	1761.23	4.16	<0.002	0.001	0.022	0.006FD1	0.01F	0.0028	10	1F	<0.05	0.09	194D1	<10D1	2.34	0.0003F
		14-Oct-08	N	1759.23	1761.23	11.2	<0.002	0.0044	0.043	0.004F	<0.1D1	0.0108	17.2	<5	<0.05	0.39	130D1	14D1	0.33	0.0006
		21-Oct-08	N	1759.23	1761.23	2.78D1	0.0004F	0.001F	0.025	<0.02D1	<0.05	0.0026	4.1	<5	<0.05	0.06	159D1	3FD1	2.39	0.0006
		28-Oct-08	N	1759.23	1761.23	1.25	<0.002	0.0008F	0.031	<0.01	<0.05	0.0015	3	<5	<0.05	0.04F	76.9	<10D2	1.08	0.0005
		4-Nov-08	N	1759.23	1761.23	4.87	<0.002	0.0017F	0.022	0.007F	<0.05	0.0059	5	<5	<0.05	0.1	277D2	4FD1	4.97	0.0005
		11-Nov-08	N	1759.23	1761.23	1.46	<0.002	0.0012F	0.026	0.002F	<0.05	0.0024	3.2	2F	<0.05	0.03F	104D2	<10D2	1.21	0.0005
		18-Nov-08	N	1759.23	1761.23	3.66	<0.002	0.0013F	0.027	0.005F	<0.05	0.0043	2.6	2F	<0.05	0.07	190D2	<10D2	2.67	0.0002F
		25-Nov-08	N	1759.23	1761.23	2.56	<0.002	0.0016F	0.021	0.004F	<0.05	0.0048	2.3	1F	<0.05	0.06	200D1	<10D1	1.88	0.0003F
		2-Dec-08	N	1759.23	1761.23	1.39D1	<0.002	0.001F	0.022	0.005F	<0.1D1	0.003	2.2	1F	<0.05	0.05	135D1	<10D1	1.04	0.0003F
		9-Dec-08	N	1759.23	1761.23	2.14	<0.002	0.0013F	0.013F	0.002F	<0.05	0.0051	2.3	2F	<0.05	0.07	189D1	<10D1	1.77	0.0003F
		16-Dec-08	N	1759.23	1761.23	2.08	<0.002	0.0017F	0.017F	0.004F	<0.05	0.0047	1.8	<5	<0.1D1	0.02FD1	153D1	<10D1	1.68	0.0003F
		23-Dec-08	N	1759.23	1761.23	1.05	--	0.0015F	0.007F	0.006F	--	0.0049	1.6	2F	--	0.06	168D1	<10D1	2.1	0.0003F
		30-Dec-08	N	1759.23	1761.23	2.75	--	0.0011F	0.014F	<0.01	--	0.0044	2FD1	1F	--	0.07FD1	174D1	<10D1	3.14	0.0003F
		6-Jan-09	N	1759.23	1761.23	3.2D1	--	0.0018F	<0.08D1	<0.05D1	--	0.0052	2.2	1F	--	0.06	201D1	<10D1	3D1	0.0001F
		13-Jan-09	N	1759.23	1761.23	2.3D1	<0.002	0.0013F	0.01FD1	<0.02D1	<0.05	0.0033	1.9FD1	1F	<0.1D1	0.04FD1	133D1	<10D1	3.48D1	0.0005
		20-Jan-09	N	1759.23	1761.23	2.68	--	0.0018F	0.019F	0.004F	--	0.0039	2.3	<5	--	0.04F	133D1	<10D1	3.84	0.0002F
		27-Jan-09	N	1759.23	1761.23	3.27	--	0.0015F	0.019F	0.008FD1	--	0.0036	2.4	1F	--	0.04F	155D1	<10D1	4.33	<0.0005
		3-Feb-09	N	1759.23	1761.23	2.57	--	0.0015F	0.02	0.002F	--	0.0032	2.4	<5	--	0.03F	133D1	<10D1	3.48	0.0001F
		10-Feb-09	N	1759.23	1761.23	2.31	--	0.0008F	0.027	0.002F	--	0.0021	1.6	<5	--	0.03F	93.8	<10D1	4.95	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 23	17-Feb-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1759.23	1761.23	2.32	<0.002V1	0.001F	0.024	<0.01	<0.05	0.0033	1.5	<3	<0.05	0.03F	111D2	0.3F	3.97	<0.0005
		17-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1759.23	1761.23	3.35	<0.002	0.0014F	0.019F	0.003F	<0.05	0.0034	1.3	<3	<0.05	0.03F	108D1	0.2F	6.25	0.0002F
		14-Apr-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1759.23	1761.23	3.17	<0.002	0.0008F	0.022	0.003F	<0.05	0.0024	1.4	<3	<0.05	0.03F	87.9	0.3F	8.63	0.0002F
		12-May-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1759.23	1761.23	4.31	<0.002	0.0024	0.021	<0.02D1	<0.05	0.0041	2.5	<3	<0.05	0.03F	133D1	0.3F	9.86	0.0003F
		9-Jun-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1759.23	1761.23	7.55D1	<0.002	0.002	0.012F	<0.02D1	<0.1D1	0.0059	2.8	<3	<0.1D1	0.05	172D1	0.4F	13.9	0.0006
		7-Jul-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1759.23	1761.23	10.8	<0.002	0.0028	0.022	<0.01	<0.05	0.0027	2.5	<3	<0.05	0.03F	143D1	0.4F	27.3	0.0003F
		4-Aug-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1759.23	1761.23	8.31	<0.002	0.0019F	0.02	<0.01	0.02F	0.0038	3.2	<3	<0.1D1	0.04F	162D1	0.3F	29.7	0.0005
	TEST 24	26-Aug-08	N	1892.81	1895	25.8	0.0013F	0.0027	0.102	0.026	0.15	0.0667	90.4	36	<0.05	6.41	2.59	8.8D1	31.5	0.0134
		2-Sep-08	N	1892.81	1895	0.18F	<0.002	<0.001	0.036	<0.01	<0.05	0.0006	1	<5	0.01F	0.04F	0.11	0.2F	0.31	0.0001F
		9-Sep-08	N	1892.81	1895	3.06	0.0006	<0.001	0.063	0.002	0.01	0.0048	6.3	<5	<0.05	0.12	2.16	1.8	19.7	0.0012

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 24	16-Sep-08	N	1892.81	1895	4.6	<0.002	<0.001	0.072	0.007	<0.05	0.0215	6.6	2	<0.05	0.36	6.72	3.8M2	0.72	0.0009
		23-Sep-08	N	1892.81	1895	9.87	<0.002	0.0005	0.057	0.011	0.02	0.0856	15.1	3	<0.05	1.4	25.8	7D2	1.33	0.0011
		30-Sep-08	N	1892.81	1895	7.45	<0.002	0.0012	0.044	0.013	<0.05	0.0783	8.8	2	<0.05	1.04	33.6	5.2D1	2.06	0.0017
		7-Oct-08	N	1892.81	1895	4.72	<0.002	<0.001	0.037	0.008F	<0.05	0.0401	4.7	2F	<0.05	0.47	29	2.1FD1	1.86	0.0009
		14-Oct-08	N	1892.81	1895	6.21	<0.002	0.0005F	0.035	0.011	<0.05	0.0468	4.6	1F	<0.05	0.52	47.5	2.8FD1	3.19	0.0008
		21-Oct-08	N	1892.81	1895	4.5	0.0009F	0.0006F	0.031	0.008F	<0.05	0.0365	2.4	1F	<0.05	0.31	35.2	1.1	2.59	0.0015
		28-Oct-08	N	1892.81	1895	6.59	<0.002	0.0011F	0.022	0.007F	<0.05	0.087	2.4	1F	<0.05	0.52	61.3	1.7FD2	3.42	0.0005
		4-Nov-08	N	1892.81	1895	3.54	<0.002	0.0009F	0.034	0.006F	<0.05	0.0543	1.9	1F	<0.05	0.29	34.4	1.2FD1	3.34	0.0011
		11-Nov-08	N	1892.81	1895	4.77	<0.002	0.0014F	0.018F	0.005F	<0.05	0.0757	1.8	<5	<0.05	0.36	44.6	0.6FD2	3.18	0.0003F
		18-Nov-08	N	1892.81	1895	2.68	<0.002	0.0006F	0.016F	0.004F	<0.05	0.0443	1.3	<5	<0.05	0.19	27	<3D2	3.27	0.0007
		25-Nov-08	N	1892.81	1895	4.85	<0.002	<0.004D1M1	0.019F	0.005F	<0.05	0.0983	2.6	<5	<0.05	0.4	45	0.7FD1	3.09	0.001
		2-Dec-08	N	1892.81	1895	2.76	<0.002	0.0007F	0.034	0.006F	<0.05	0.0553	1.4	1F	<0.05	0.27	33.4	<3D1	3.13	0.0008
		9-Dec-08	N	1892.81	1895	1.43	0.0004F	<0.002	0.029	<0.01	<0.05	0.0335	1.4	<5	<0.05	0.14	16.9	<3D1	3.56	0.0005
		16-Dec-08	N	1892.81	1895	1.31	<0.002	<0.002	0.03	0.003F	<0.05	0.031	2.3	<5	<0.05	0.14	20.4	<3D1	2.78	0.0002F
		23-Dec-08	N	1892.81	1895	1.38	--	0.0006F	0.027	0.005F	--	0.0395	2.2	<5	--	0.17	20.9	<3D1	2.64	0.0004F
		30-Dec-08	N	1892.81	1895	3.05	--	0.001F	0.016F	<0.01	--	0.0815	2.1	1F	--	0.36	48.7B7	0.6FD1	4.15	0.0005
		6-Jan-09	N	1892.81	1895	2.05	--	0.0009F	0.024	0.002F	--	0.0521	1	<5	--	0.28	37.3	<3D1	2.58	0.0006
		13-Jan-09	N	1892.81	1895	3.84	<0.002	0.0011F	0.014F	<0.01	<0.05	0.112	1.2	1F	<0.05	0.46	62.9	<5D1	3.3	0.0002F
		20-Jan-09	N	1892.81	1895	3.15	--	0.0011F	0.019F	<0.01	--	0.0925	0.8F	1F	--	0.39	52.1	<5D1	3.31	0.0001F
		27-Jan-09	N	1892.81	1895	3.18	--	0.0008F	0.018F	0.005F	--	0.0812	0.8F	1F	--	0.4	54.5	<5D1	2.73	<0.0005
		3-Feb-09	N	1892.81	1895	3.7	--	0.0011F	0.018F	0.002F	--	0.111	1.4	<5	--	0.53	78.6	<5D1	3.08	0.0002F
		10-Feb-09	N	1892.81	1895	2.84	<0.002	0.0021	0.017F	0.003F	<0.05	0.107	1.3	1FH3	<0.05	0.46	75D2	<5D2H3	3.21D2	0.0003F
		17-Feb-09	N	1892.81	1895	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 25	26-Aug-08	N	1917.29	1920.9	0.37	<0.002	0.0019	0.1	<0.01	0.05	0.0011	134	8	<0.05	0.22	0.76	1.2	<0.05	0.002
		2-Sep-08	N	1917.29	1920.9	0.13F	<0.002	<0.001	0.033	<0.01	0.01F	<0.0005	4.6	<5	<0.05	0.01F	0.06	0.7	<0.05	0.0001F
		9-Sep-08	N	1917.29	1920.9	0.25	<0.002	<0.001	0.02	<0.01	<0.05	<0.0005	2.2	<5	<0.05	0.02	0.08	2.4	<0.05	<0.0005
		16-Sep-08	N	1917.29	1920.9	0.25	<0.002	<0.001	0.037	0.003	<0.05	0.0001	13.8	2	<0.05	0.02	0.66	0.5	<0.05	0.0003
		23-Sep-08	N	1917.29	1920.9	0.43	<0.002	<0.001	0.02	<0.01	<0.05	0.0002	18.3	<5	<0.05	0.04	1.68	0.4	<0.05	0.0001
		30-Sep-08	N	1917.29	1920.9	1.4	<0.002	0.0005	0.044	0.005	<0.05	0.0005	33.2	2	<0.05	0.08	5.45	1.4	0.05	0.0005
		7-Oct-08	N	1917.29	1920.9	0.91	<0.002	<0.001	0.033	<0.01	<0.05	0.0003F	13.9	2F	<0.05	0.04F	3.21	0.6	0.03F	0.0002F
		14-Oct-08	N	1917.29	1920.9	0.57	<0.002	<0.001	0.015F	0.002F	<0.05	0.0002F	9.2	<5	<0.05	0.03F	2.6	0.5	0.03F	0.0014

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	TEST 25	21-Oct-08	N	1917.29	1920.9	1.24	<0.002	0.0006F	0.017F	<0.01	<0.05	0.0004F	16	1F	<0.05	0.05	5.3	0.9	0.06	0.0005
		28-Oct-08	N	1917.29	1920.9	0.89	<0.002	<0.002	0.013F	<0.01	<0.05	0.0004F	12	<5	<0.05	0.04F	4.91	0.9	0.04F	0.0007
		4-Nov-08	N	1917.29	1920.9	1.35	<0.002	<0.002	0.037	0.004F	<0.05	0.0005	14.8	1F	<0.05	0.06	6.65	1.2M2	0.09	0.0004F
		18-Nov-08	N	1917.29	1920.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 25S	11-Nov-08	N	1917.29	1920.9	0.34	<0.002	<0.002	0.04	<0.01	<0.05	0.0002F	3.7	<5	<0.05	0.02F	2	0.4F	0.04F	<0.0005
		18-Nov-08	N	1917.29	1920.9	0.15F	<0.002	<0.002	0.023	<0.01	<0.05	0.0002F	2.5	<5	<0.05	0.01F	1.3	0.2F	0.03F	0.0001F
		25-Nov-08	N	1917.29	1920.9	0.11F	<0.002	<0.002	0.01F	<0.01	<0.05	0.0002F	2.3	<5	<0.05	0.01F	1.34	0.1F	0.03F	0.0002F
		2-Dec-08	N	1917.29	1920.9	0.14F	<0.002	<0.002	0.008F	0.002F	<0.05	0.0001F	2.5	<5	<0.05	0.01F	1.55	0.2F	0.04F	<0.0005
		9-Dec-08	N	1917.29	1920.9	0.17F	<0.002	<0.002	0.004F	<0.01	<0.05	0.0002F	2.8	<5	<0.05	0.01F	2	0.2F	0.06	<0.0005
		16-Dec-08	N	1917.29	1920.9	0.17F	<0.002	<0.002	0.005F	<0.01	<0.05	0.0002F	2.7	<5	<0.05	<0.05	2.47	0.2F	0.06	<0.0005
		23-Dec-08	N	1917.29	1920.9	0.18F	--	<0.002	0.004F	0.003F	--	0.0002F	2.8	<5	--	0.02F	2.17	0.2F	0.08	<0.0005
		30-Dec-08	N	1917.29	1920.9	0.21	--	<0.002	<0.02	<0.01	--	0.0003F	3.4	1F	--	0.02F	3.29B7	0.2F	0.07	<0.0005
		6-Jan-09	N	1917.29	1920.9	0.22	--	0.0009F	0.006F	<0.01	--	0.0003F	4.1	<5	--	0.03F	3.67	0.2F	0.08	<0.0005
		13-Jan-09	N	1917.29	1920.9	0.39	<0.002	0.0009F	<0.02	<0.01	<0.05	0.0005	4.8	<5	<0.05	0.02F	6.19	0.4F	0.1	<0.0005
		20-Jan-09	N	1917.29	1920.9	0.26	--	0.001F	0.006F	<0.01	--	0.0004F	3.7	<5	--	0.02F	3.61	0.2F	0.11	<0.0005
		27-Jan-09	N	1917.29	1920.9	0.24	--	<0.002	0.004F	0.003F	--	0.0003F	3.6	1F	--	0.02F	3.49	0.2F	0.09	<0.0005
		3-Feb-09	N	1917.29	1920.9	0.21	--	<0.002	0.009F	<0.01	--	0.0003F	3.4	<5	--	0.02F	3.68	0.2F	0.11	<0.0005
		10-Feb-09	N	1917.29	1920.9	0.23	<0.002	0.0006F	0.008F	<0.01	<0.05	0.0004F	2.7	<5H3	<0.05	0.02F	4.46	0.2FH3	0.13	<0.0005
		17-Feb-09	N	1917.29	1920.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-005J	TEST 26	26-Aug-08	N	1660.4	1686.47	<0.2	0.0093	0.0049	0.054	<0.01	0.05	0.0003F	17.4	9	<0.05	0.05	0.36	0.9	<0.05	<0.0005
		2-Sep-08	N	1660.4	1686.47	0.04F	0.0043	0.004	0.03D1	<0.02D1	0.03FD1	0.0002F	13.8	4F	0.01F	<0.05	0.05	1.4	<0.05	<0.0005
		9-Sep-08	N	1660.4	1686.47	0.06	0.0031	0.0032	0.026	<0.01	0.02	<0.0005	11.9	2	<0.05	0.02	0.03	1.1	<0.05	<0.0005
		16-Sep-08	N	1660.4	1686.47	<0.2	0.0026	0.0045	0.022	0.002	0.01	<0.0005	7.6	<5	<0.05	<0.05	0.02	0.3	<0.05	<0.0005
		23-Sep-08	N	1660.4	1686.47	0.04	0.0024	0.0051	0.031	<0.01	0.02	0.0001	9.8	<5	<0.05	0.01	0.03	0.7	<0.05	<0.0005
		30-Sep-08	N	1660.4	1686.47	0.04	0.0015	0.0044	0.012	<0.01	0.01	0.0001	7.2	<5	<0.05	<0.05	0.01	0.5	<0.05	<0.0005
		7-Oct-08	N	1660.4	1686.47	<0.2	0.0013F	0.0037	0.021	<0.01	0.02F	<0.0005	6	<5	<0.05	0.01F	<0.05	0.1F	<0.05	<0.0005
		14-Oct-08	N	1660.4	1686.47	<0.2	0.0011F	0.0032	0.027	<0.01	<0.05	0.0001F	6	<5	<0.05	<0.05	0.04F	0.2F	<0.05	<0.0005
		21-Oct-08	N	1660.4	1686.47	<0.2	0.0012F	0.0034	0.023	<0.01	0.02F	0.0001F	5	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		28-Oct-08	N	1660.4	1686.47	0.08F	0.0009F	0.0023	0.026	<0.01	<0.05	0.0003F	4.2	<5	<0.05	0.02F	0.03F	0.2F	<0.05	<0.0005
		4-Nov-08	N	1660.4	1686.47	<0.2	0.0008F	0.0026	0.03	<0.01	<0.05	0.0004F	4.3	<5	<0.05	0.02F	0.05	0.2F	<0.05	<0.0005
		11-Nov-08	N	1660.4	1686.47	<0.2	0.0007F	0.0031	0.04	<0.01	<0.05	0.0007	5.6	<5	<0.05	0.03F	0.09	0.1F	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005J	TEST 26	18-Nov-08	N	1660.4	1686.47	<0.2	0.0007F	0.0033	0.034	<0.01	<0.05	0.0005	3.5	<5	<0.05	0.02F	0.15	<0.5	<0.05	<0.0005
		25-Nov-08	N	1660.4	1686.47	<0.2	0.0007FV2	0.0013F	0.035	<0.01	<0.05	0.0008	3.6	<5	<0.05	0.02F	0.25	<0.5	<0.05	<0.0005
		2-Dec-08	N	1660.4	1686.47	<0.2	0.0005F	0.002	0.043	<0.01	<0.05	0.0008	4	<5	<0.05	0.03F	0.21	<0.5	<0.05	<0.0005
		9-Dec-08	N	1660.4	1686.47	<0.2	0.0005F	0.0017F	0.044	<0.01	<0.05	0.0011	3.7	<5	<0.05	0.03F	0.26	<0.5	<0.05	<0.0005
		16-Dec-08	N	1660.4	1686.47	<0.2	0.0004F	0.0014F	0.045	<0.01	<0.05	0.0011	3.6	<5	<0.05	0.03F	0.43	<0.5	<0.05	<0.0005
		23-Dec-08	N	1660.4	1686.47	<0.2	--	0.0014F	0.039	0.003F	--	0.0009	2.5	<5	--	0.03F	0.34	<0.5	<0.05	<0.0005
		30-Dec-08	N	1660.4	1686.47	<0.2	--	0.0012F	0.041	<0.01	--	0.001	2.5	<5	--	0.03F	0.44B7	<0.5	<0.05	<0.0005
		6-Jan-09	N	1660.4	1686.47	<0.2	--	0.0011F	0.055	<0.01	--	0.0012	2.4	<5	--	0.03F	0.63	<0.5	<0.05	<0.0005
		13-Jan-09	N	1660.4	1686.47	<0.2	<0.002	0.002	0.053	<0.01	<0.05	0.0011	2.2	<5	<0.05	0.02F	0.61	<0.5	<0.05	<0.0005
		20-Jan-09	N	1660.4	1686.47	<0.2	--	0.0017F	0.055	<0.01	--	0.0011	2.2	<5	--	0.03F	0.6	<0.5	<0.05	<0.0005
		27-Jan-09	N	1660.4	1686.47	<0.2	--	0.0011F	0.062	0.002F	--	0.0012	2.3	<5	--	0.03F	0.76	<0.5	<0.05	<0.0005
		3-Feb-09	N	1660.4	1686.47	<0.2	--	0.0011F	0.063	<0.01	--	0.0011	2	<5	--	0.03F	0.8	<0.5	<0.05	<0.0005
		10-Feb-09	N	1660.4	1686.47	<0.2	--	<0.002	0.072	<0.01	--	<0.0005	2	<5	--	0.03F	0.9	<0.5	<0.05	0.0223
		17-Feb-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1660.4	1686.47	<0.2	<0.002V1	0.0018F	0.1	<0.01	<0.05	0.0018	2	<3	<0.05	0.04F	1.4	<0.5	<0.05	<0.0005
		17-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1660.4	1686.47	<0.2	<0.002	0.0012F	0.104	<0.01	<0.05	0.0021	1.7	<3	<0.05	0.05	2.05	<0.5	<0.05	<0.0005
		14-Apr-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1660.4	1686.47	<0.2	<0.002	0.0009F	0.121	<0.01	<0.05	0.0024	1.4	<3	<0.05	0.05	2.3	<0.5	<0.05	<0.0005
		12-May-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1660.4	1686.47	<0.2	<0.002	0.0012F	0.121	<0.01	<0.05	0.0029	1.1	<3	<0.05	0.05	3.06	<0.5	<0.05	<0.0005
		9-Jun-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005J	TEST 26	23-Jun-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1660.4	1686.47	<0.2	<0.002	0.0012F	0.091	<0.01	<0.05	0.0043	1	<3	<0.05	0.06	3.79	<0.5	<0.05	0.0003F
		7-Jul-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1660.4	1686.47	0.03F	<0.002	0.0035	0.104	<0.01	<0.05	0.0058	1.1	<3	<0.05	0.1	6.94	<0.5	<0.05	<0.0005
		4-Aug-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1660.4	1686.47	<0.2	<0.002	0.0016F	0.071	<0.01	0.02F	0.0072	0.9F	<3	<0.05	0.14	10.2	<0.5	<0.05	0.0003F
		1-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1660.4	1686.47	0.05F	<0.002	0.0016F	0.048	<0.01	0.02F	0.0085	0.7F	<30D1	<0.05	0.15	15.6	<5D1	<0.05	<0.0005
		29-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1660.4	1686.47	<0.2	<0.002	0.0019F	0.036	<0.01	<0.05	0.0086	0.7F	<3	<0.05	0.16	17	<0.5	<0.05	<0.0005
		27-Oct-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1660.4	1686.47	<0.2	<0.002	0.0024	0.036	0.002F	<0.05	0.0078	0.4F	<3	<0.05	0.12	18.8	<0.5	<0.05	<0.0005
		24-Nov-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		1-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Dec-09	N	1660.4	1686.47	0.05F	<0.002	0.0041	0.031	<0.01	<0.05	0.011	0.4F	<3	<0.05	0.16	29	<0.5	<0.05	<0.0005
		22-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		29-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-Jan-10	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12-Jan-10	N	1660.4	1686.47	0.03F	<0.002	0.0039	0.022	<0.01	<0.05	0.0098	0.3F	<3	<0.05	0.11	30.5M3	<0.5	<0.05	<0.0005
		19-Jan-10	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005J	TEST 26	26-Jan-10	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-006D	TEST 27	26-Aug-08	N	1750.4	1753.4	320	0.002	0.006	0.103	0.144	0.04F	0.0045	395	9	0.21	3.14	1.14	158D1M2	218	0.0121
		2-Sep-08	N	1750.4	1753.4	28.9	<0.002	<0.001	0.012F	0.009F	<0.05	0.0004F	45.2	<5	0.01F	0.13	1.23	28.7	4.33	<0.0005
		9-Sep-08	N	1750.4	1753.4	12.7	<0.002	<0.001	0.011	0.02	<0.05	0.0002	17.7	<5	<0.05	0.07	0.99	11	2.98	0.0001
		16-Sep-08	N	1750.4	1753.4	12.2	<0.002	<0.001	0.008	0.007	<0.05	0.0002	19.4	<5	<0.05	0.06	1.62	<0.5	4.4	0.0001
		23-Sep-08	N	1750.4	1753.4	14.6	<0.002	<0.001	0.018	0.006	<0.05	0.0003	22.9	<5	<0.05	0.07	2.12	12	8.15	0.0002
		30-Sep-08	N	1750.4	1753.4	13	<0.002	0.0006	<0.02	0.007	<0.05	0.0004	15.6	<5	<0.05	0.05	2.44	10.7	9.54	0.0003
		7-Oct-08	N	1750.4	1753.4	23.5	<0.002	0.0007F	<0.02	0.014	<0.05	0.0005	28.3	<5	<0.05	0.1	5.47	15.3	13	0.0004F
		14-Oct-08	N	1750.4	1753.4	20.6	<0.002	<0.001	0.004F	0.009F	<0.05	0.0005	21.5	<5	<0.05	0.11	3.71	13.8	15.7	0.0001F
		21-Oct-08	N	1750.4	1753.4	15.5	<0.002	<0.002	<0.02	0.005F	<0.05	0.0003F	17	<5	<0.05	0.06	1.94	10.5	15.3	0.0001F
		28-Oct-08	N	1750.4	1753.4	11.7	<0.002	<0.002	<0.02	<0.01	<0.05	0.0004F	15.7	<5	<0.05	0.06	1.78	9.1	15.4	<0.0005
		4-Nov-08	N	1750.4	1753.4	11.8	<0.002	<0.002	<0.02	0.004F	<0.05	0.0004F	12.8	<5	<0.05	0.06	1.67	9.5D3	18	<0.0005
		11-Nov-08	N	1750.4	1753.4	47.2	<0.002	0.0015F	<0.02	0.014	<0.05	0.0012	56.2	<5	<0.05	0.24	10.2	30.9	25.1	0.0001F
		18-Nov-08	N	1750.4	1753.4	96.4	<0.002	0.0038	<0.02	0.037	<0.05	0.0029	115	<5	0.01F	0.52	30.9	39.4	48.1	<0.0005
		25-Nov-08	N	1750.4	1753.4	14.4	<0.002V1	<0.002	<0.02	0.006F	<0.05	0.0005	46.1	<5	<0.05	0.07	2.95	11.3	13.7	<0.0005
		2-Dec-08	N	1750.4	1753.4	5.33	<0.002	<0.002	<0.02	0.005F	<0.05	0.0002F	18.1	<5	<0.05	0.03F	1.35	4.5	19.5	0.0003F
		9-Dec-08	N	1750.4	1753.4	3.86	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	10	<5	<0.05	0.02F	1.08	3.1	16.6	0.0001F
		16-Dec-08	N	1750.4	1753.4	4.47	<0.002	<0.002	<0.02	0.003F	<0.05	0.0002F	8.9	<5	<0.05	0.01F	1.44	3.3	20.4	<0.0005
		23-Dec-08	N	1750.4	1753.4	3.84	--	<0.002	<0.02	0.004F	--	0.0002F	6.4	<5	--	0.02F	1.02	2.8	16.4	<0.0005
		30-Dec-08	N	1750.4	1753.4	4.75	--	<0.002	<0.02	<0.01	--	0.0002F	7.9	<5	--	0.02F	1.12B7	3.3	25.4	<0.0005
		6-Jan-09	N	1750.4	1753.4	5	--	<0.002	<0.02	<0.01	--	0.0002F	6.5	<5	--	0.02F	1.3	3.3	21.5	0.0001F
		13-Jan-09	N	1750.4	1753.4	4.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	5.2	<5	<0.05	<0.05	1.11	2.6	20	0.0001F
		20-Jan-09	N	1750.4	1753.4	17.6	--	0.0008F	<0.02	0.006F	--	0.0006	21.4	<5	--	0.06	5.22	6.1	47.4	0.0001F
		27-Jan-09	N	1750.4	1753.4	10.6	--	<0.002	<0.02	0.007F	--	0.0002F	14.7	1F	--	0.03F	2.65	8	28.2	<0.0005
		3-Feb-09	N	1750.4	1753.4	40.1	--	0.0015F	<0.02	0.02	--	0.0014	55.1	<5	--	0.13	31.6	27.1D1	50.6	<0.0005
		10-Feb-09	N	1750.4	1753.4	4.58M3	<0.002	<0.002	<0.02	0.002F	<0.05	0.0002F	7.7	<5H3	<0.05	0.02F	2.78M3	3.3D2H3	14.3M3	<0.0005
		17-Feb-09	N	1750.4	1753.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 28	26-Aug-08	N	1898.21	1901.09	251	0.0005F	0.0019	0.13	0.141	0.05	0.0255	446	20	0.03F	2.58	157D1	254D1	69.3	0.0217
		2-Sep-08	N	1898.21	1901.09	41	<0.002	<0.001	0.043	0.021	0.02F	0.0005	110	1F	<0.05	0.09	11.7	44.5	16.8	0.0012
		9-Sep-08	N	1898.21	1901.09	4.13	<0.002	<0.001	0.014	<0.01	<0.05	<0.0005	8.4	<5	<0.05	0.03	2.49	6.4	0.07	<0.0005
		16-Sep-08	N	1898.21	1901.09	5.6	<0.002	<0.001	0.023	0.005	<0.05	<0.0005	12.5	<5	<0.05	0.02	3.73	6.9	0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-006D	TEST 28	23-Sep-08	N	1898.21	1901.09	4.85	<0.002	<0.001	0.008	<0.01	0.01	<0.0005	9.4	<5	<0.05	0.02	3.7	6.1	0.09	0.0002
		30-Sep-08	N	1898.21	1901.09	10.5	<0.002	<0.001	<0.02	0.005	<0.05	0.0003	18.4	<5	<0.05	0.03	10.2	14.4	0.31	0.0003
		7-Oct-08	N	1898.21	1901.09	31.9	<0.002	<0.001	0.018F	0.014	<0.05	0.0009	53	<5	<0.05	0.13	40.5	41.3D1	1.31	0.0007
		14-Oct-08	N	1898.21	1901.09	14.7	<0.002	<0.001	0.01F	0.006F	<0.05	0.0004F	26	<5	<0.05	0.07	19.1	22.4D1	0.59	0.0004F
		21-Oct-08	N	1898.21	1901.09	15.8	<0.002	<0.002	0.007F	0.005F	<0.05	0.0005	24.5	<5	<0.05	0.07	18.7	16.9D1	0.79	0.0003F
		28-Oct-08	N	1898.21	1901.09	18.1	<0.002	<0.002	<0.02	0.003F	<0.05	0.0007	28.7	<5	<0.05	0.09	23.4	24.1D2	0.99	0.0004F
		4-Nov-08	N	1898.21	1901.09	20	<0.002	<0.002	0.011F	0.007F	<0.05	0.0009	33.7	<5	<0.05	0.1	25.2	28D1	1.64	0.0005
		11-Nov-08	N	1898.21	1901.09	23.6	<0.002	<0.002	0.009F	0.007F	<0.05	0.001	35.8	<5	<0.05	0.12	28.7	32.8D2	1.83	0.0004F
		18-Nov-08	N	1898.21	1901.09	29.8	<0.002	<0.002	0.009F	0.009F	<0.05	0.0012	44.6	<5	<0.05	0.15	39.1	40.6D2M2	2.52	0.0004F
		25-Nov-08	N	1898.21	1901.09	23.6	<0.002V1	<0.002	0.008F	0.007F	<0.05	0.001	35.1	<5	<0.05	0.11	32.1	34.5D1	2.04	0.0005
		2-Dec-08	N	1898.21	1901.09	18.7	<0.002	<0.002	0.008F	0.008F	<0.05	0.0007	32.6	<5	<0.05	0.09	23.2	27.9D1	2.19	0.0005
		9-Dec-08	N	1898.21	1901.09	15.9	<0.002	<0.002	0.005F	0.004F	<0.05	0.0007	29.8	<5	<0.05	0.08	21.7	24D1	2.34	0.0004F
		16-Dec-08	N	1898.21	1901.09	16.3	<0.002	<0.002	0.007F	0.006F	<0.05	0.0016	28.2	<5	<0.05	0.07	24.2	25.1D1	2.1	0.154
		23-Dec-08	N	1898.21	1901.09	20.4	--	0.0006F	0.005F	0.008F	--	0.0008	32.2	<5	--	0.1	26.7	22.3D1	2.87	0.0004F
		30-Dec-08	N	1898.21	1901.09	12.6	--	<0.002	<0.02	<0.01	--	0.0005	20.7	<5	--	0.06	17.7B7	18.3D1	2.36	0.0003F
		6-Jan-09	N	1898.21	1901.09	14.2	--	<0.002	0.007F	0.003F	--	0.0005	21	<5	--	0.06	20.6	20.5D1	2.91	0.0004F
		13-Jan-09	N	1898.21	1901.09	23.7	<0.002	<0.002	<0.02	0.002F	<0.05	0.0009	34	<5	<0.05	0.1	28.2	32.8D1	3.29	0.0005
		20-Jan-09	N	1898.21	1901.09	26.3	--	<0.002	0.006F	0.007F	--	0.001	37.4	<5	--	0.13	31.8	36.5D1	4.23	0.0005
		27-Jan-09	N	1898.21	1901.09	23.5	--	<0.002	0.007F	0.009F	--	0.0008	33.7	<5	--	0.1	34.5	32.7D1M2	4.18	0.0006
		3-Feb-09	N	1898.21	1901.09	54.2	--	0.0005F	0.01F	0.015	--	0.0016	82.4	<5	--	0.23	65.1	69.1D1	6.18	0.0006
		10-Feb-09	N	1898.21	1901.09	63.1	--	<0.002	0.011F	0.022	--	0.0001F	103	<5	--	0.32	92.1	83D1	7.34	<0.0005
		17-Feb-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1898.21	1901.09	67.3	<0.002V1	0.0011F	0.015F	0.024	<0.05	0.0016	136	<3	<0.05	0.35	159D2	86D2	9.33	0.0004F
		17-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1898.21	1901.09	23.3	<0.002	<0.002	0.01F	0.009F	<0.05	0.0004F	41.4	<3	<0.05	0.08	32.3	38D1	5.81	0.0002F
		14-Apr-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-006D	TEST 28	28-Apr-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1898.21	1901.09	4.84	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	12.2	<3	<0.05	0.03F	10.4	9.1D1	3.2	<0.0005
		12-May-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1898.21	1901.09	61.4	<0.002	0.0029	0.005F	0.018FD1	<0.05	0.0031	117	<3	<0.05	0.31	161D1	91D1	47.1	0.0003F
		9-Jun-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1898.21	1901.09	57.6D1	<0.002	0.0022	<0.02	<0.05D1	<0.3D1	0.0039	118	<3	0.06FD1	0.33	188D1	76D1	61.5	0.0011
		7-Jul-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1898.21	1901.09	45.1	<0.002	0.0024	0.006F	<0.01	0.01F	0.0024	94.5	<3	<0.05	0.24	168D1	74D1	83.9	0.0007
		4-Aug-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1898.21	1901.09	23	<0.002	<0.002	0.003F	<0.01	0.02F	0.0006	32.3	<3	<0.05	0.08	34.1	36D1	33.3	0.0003F
	TEST 29	26-Aug-08	N	1952.56	1954.83	10.8	<0.002	0.0008F	0.056	<0.01	0.04F	0.0018	34.9	24	<0.05	0.15	7.99	12.9	3.96	0.0079
		2-Sep-08	N	1952.56	1954.83	10.7	<0.002	<0.001	0.028	<0.01	0.01F	0.0002F	20.3	2F	0.01F	0.04F	5.2	19.1	0.19	0.0036
		9-Sep-08	N	1952.56	1954.83	3.38	<0.002	<0.001	0.01	<0.01	<0.05	<0.0005	7.4	1	<0.05	0.02	1.33	6.1M2	0.03	0.0018
		16-Sep-08	N	1952.56	1954.83	10.9	<0.002	<0.001	0.03	0.003	<0.05	0.0002	26.7	4	<0.05	0.06	8.32	13.6	0.1	0.0086
		23-Sep-08	N	1952.56	1954.83	15.6	<0.002	<0.001	0.017	<0.01	0.01	0.0003	31.4	1	<0.05	0.1	19.2	19.7D2	0.41	0.0156
		30-Sep-08	N	1952.56	1954.83	17.9	<0.002	0.0008	0.032	0.003	<0.05	0.0004	28.7	1	<0.05	0.08	28.5	23.4D1	0.91	0.0396
		7-Oct-08	N	1952.56	1954.83	8.12	<0.002	0.0009F	0.031	<0.01	<0.05	0.0002F	12.1	1F	<0.05	0.03F	20.4	12.4D1M2	0.89	0.045B7
		14-Oct-08	N	1952.56	1954.83	5.64	<0.002	0.0006F	0.037	<0.01	<0.05	0.0001F	7.2	<5	<0.05	0.04F	27.8	7.1D1	1.98	0.0509
		21-Oct-08	N	1952.56	1954.83	4.23	<0.002	0.001F	0.016F	<0.01	<0.05	<0.0005	3.4	<5	<0.05	0.03F	23.8	2.9FD1	1.81	0.043
		28-Oct-08	N	1952.56	1954.83	4.01	<0.002	0.0006F	0.024	<0.01	<0.05	<0.0005	2.9	<5	<0.05	0.03F	25.1	3.3D2	2.73	0.0419
		4-Nov-08	N	1952.56	1954.83	3.42	<0.002	0.0014F	0.043	<0.01	<0.05	0.0001F	2.1	<5	<0.05	0.04F	26.1	2.7FD1	5.52	0.0897
	TEST 29S	11-Nov-08	N	1952.56	1954.83	0.76	<0.002	<0.002	0.017F	<0.01	<0.05	<0.0005	0.4F	<5	<0.05	0.01F	7.48	0.5FD2	1.3	0.0611
		18-Nov-08	N	1952.56	1954.83	0.44	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	<0.05	3.75	1FD2	0.7	0.0319

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-006D	TEST 29S	25-Nov-08	N	1952.56	1954.83	0.3	<0.002V1	<0.002	0.004F	<0.01	<0.05	<0.0005	0.2F	<5	<0.05	<0.05	2.45	<3D1	0.42	0.016B3
		2-Dec-08	N	1952.56	1954.83	0.68	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	0.5F	<5	<0.05	<0.05	5.46	0.8FD1	0.81	0.0296
		9-Dec-08	N	1952.56	1954.83	0.91	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	0.4F	<5	<0.05	0.01F	6.2	<3D1	0.8	0.026
		16-Dec-08	N	1952.56	1954.83	0.62	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	0.3F	<5	<0.05	0.01F	4.26M3	<3D1	0.51	0.0187
		23-Dec-08	N	1952.56	1954.83	0.64	--	<0.002	<0.02	0.003F	--	<0.0005	<1	<5	--	<0.05	4.33	<3D1	0.55	0.0263
		30-Dec-08	N	1952.56	1954.83	0.62	--	<0.002	<0.02	<0.01	--	<0.0005	0.3F	<5	--	0.01F	4.59B7	<3D1	0.54	0.0239
		6-Jan-09	N	1952.56	1954.83	0.6	--	<0.002	0.003F	<0.01	--	<0.0005	0.3F	<5	--	<0.05	4.2	<3D1	0.54	0.0179
		13-Jan-09	N	1952.56	1954.83	0.64	<0.002	<0.002	<0.02	<0.01	<0.1D1	<0.0005	<1	<5	<0.05	<0.05	4.36	<3D1	0.52	0.02
		20-Jan-09	N	1952.56	1954.83	0.73	--	<0.002	<0.02	<0.01	--	<0.0005	0.5F	<5	--	<0.05	4.32	<3D1	0.61	0.0206
		27-Jan-09	N	1952.56	1954.83	0.65	--	<0.002	<0.02	0.002F	--	<0.0005	0.5F	<5	--	<0.05	4.78	<3D1	0.6	0.0214
		3-Feb-09	N	1952.56	1954.83	0.95	--	<0.002	<0.02	<0.01	--	<0.0005	0.5F	<5	--	<0.05	6.63	<3D1	0.69	0.0202
		10-Feb-09	N	1952.56	1954.83	1.01	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	0.3F	<5H3	<0.05	<0.05	7.17	<3D2H3	0.84	0.0215
		17-Feb-09	N	1952.56	1954.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 30	26-Aug-08	N	1954.83	1972	0.13F	<0.002	0.0024	0.059	<0.01	0.05	0.0003F	20.7	8	<0.05	0.06	0.56	1.7	<0.05	0.0002F
		2-Sep-08	N	1954.83	1972	0.09F	<0.002	0.0009F	0.029	<0.01	0.03F	0.0003F	19.5	7	<0.05	0.07	0.53	2.6	<0.05	0.0005
		9-Sep-08	N	1954.83	1972	0.26	<0.002	<0.001	0.028	<0.01	0.03	0.0006	21	6	<0.05	0.13	1.79	2	0.1	0.0005
		16-Sep-08	N	1954.83	1972	0.53	<0.002	<0.001	0.024	0.004	0.01	0.0008	20.3	4	<0.05	0.16	6.69	2.4	<0.05	0.001
		23-Sep-08	N	1954.83	1972	1.58	<0.002	<0.001	0.025	0.004	0.02	0.0014	25.8	3	<0.05	0.25	23.1	4D2	<0.05	0.0091
		30-Sep-08	N	1954.83	1972	2.22	<0.002	<0.001	0.01	0.007	<0.05	0.0016	23.6	2	<0.05	0.25	38.6	5.2D1	<0.05	0.0193
		7-Oct-08	N	1954.83	1972	2.97	<0.002	<0.001	0.017F	0.007F	0.01F	0.0018	25.5	2F	<0.05	0.28	57.7	5.8D1	<0.05	0.0413
		14-Oct-08	N	1954.83	1972	2.42	<0.002	<0.001	0.013F	0.006F	<0.05	0.0013	19.7	2F	<0.05	0.21	53.7	5.4D1	<0.05	0.0386
		21-Oct-08	N	1954.83	1972	2.87	<0.002	<0.002	0.009F	0.005F	0.01F	0.0014	21	2F	<0.05	0.2	63.7	3.7D1	<0.05	0.0685
		28-Oct-08	N	1954.83	1972	2.72	<0.002	<0.002	0.011F	<0.01	<0.05	0.0014	18.7	1F	<0.05	0.17	63.3	4.9D2	<0.05	0.0622
		4-Nov-08	N	1954.83	1972	3.09	<0.002	<0.002	0.012F	0.004F	<0.05	0.0018	21.5	1F	<0.05	0.18	80	6.1D1	<0.05	0.111
		11-Nov-08	N	1954.83	1972	2.79	<0.002	<0.002	0.011F	0.003F	<0.05	0.0016	18.9	1F	<0.05	0.14	70.7	5.3D2	<0.05	0.104
		18-Nov-08	N	1954.83	1972	2.62	<0.002	<0.002	0.008F	0.003F	<0.05	0.0015	17.7	<5	<0.05	0.12	71.9	5.4D2	<0.05	0.121
		25-Nov-08	N	1954.83	1972	3.06	<0.002V1	<0.002	0.009F	0.002F	<0.05	0.0019	19.5	1F	<0.05	0.13	75.2	6D1	<0.05	0.159B3
		2-Dec-08	N	1954.83	1972	2.48	<0.002	<0.002	0.009F	0.004F	<0.05	0.0014	16.3	<5	<0.05	0.11	64.4	5.2D1	<0.05	0.115
		9-Dec-08	N	1954.83	1972	2.65	<0.002	<0.002	0.009F	<0.01	<0.05	0.0016	16.5	1F	<0.05	0.11	68.3	5.3D1	<0.05	0.148
		16-Dec-08	N	1954.83	1972	2.77	<0.002	<0.002	0.007F	0.003F	<0.05	0.0006	16	1F	<0.05	0.09	75.1	5.7D1	<0.05	0.0003F
		23-Dec-08	N	1954.83	1972	2.92M2	--	<0.002	0.009F	0.004F	--	0.0017	16.4	<5	--	0.11	74M3	5D1	0.02F	0.175

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-006D	TEST 30	30-Dec-08	N	1954.83	1972	2.56	--	<0.002	0.009F	<0.01	--	0.0016	13.8	1FM1	--	0.08	69.6M3	3.1D1	<0.05	0.16
		6-Jan-09	N	1954.83	1972	2.82	--	<0.002	0.008F	<0.01	--	0.0017	14.2	1FM1	--	0.08	75.3M3	5D1	0.03F	0.179
		13-Jan-09	N	1954.83	1972	2.73	<0.002	<0.002	0.008F	<0.01	<0.05	0.0017	12.9	<5M1	<0.05	0.08	70.2M3	8D1	<0.05	0.162
		20-Jan-09	N	1954.83	1972	2.86	--	<0.002	0.008F	<0.01	--	0.0016	12.6	1F	--	0.08	71.7M3	5D1	<0.05	0.169
		27-Jan-09	N	1954.83	1972	2.75	--	<0.002	0.009F	<0.01	--	0.0016	12.1	1F	--	0.07	66.9M3	5D1	<0.05	0.169B7
		3-Feb-09	N	1954.83	1972	2.87	--	<0.002	0.008F	<0.01	--	0.0017	12.6	<5	--	0.07	72.5M3	5D1	<0.05	0.191
		10-Feb-09	N	1954.83	1972	2.95	--	<0.002	0.009F	<0.01	--	0.0018	12.5	<5M1	--	0.08	70.9M3	6D1	<0.05	0.202
		17-Feb-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1954.83	1972	2.99	<0.002V1	<0.002	0.012F	<0.01	<0.05	0.0018	10.9	<3	<0.05	0.07	66.3	6.6D2	<0.05	0.198
		17-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1954.83	1972	2.51	<0.002	<0.002	0.008F	<0.01	<0.05	0.0016	9.2	<3	<0.05	0.06	61.9	3.7D1	<0.05	0.191
		14-Apr-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1954.83	1972	3.41	<0.002	<0.002	0.009F	<0.01	<0.05	0.0021	12.1	<3	<0.05	0.07	79.7	6.8D1	<0.05	0.263
		12-May-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1954.83	1972	4	<0.002	0.0008F	0.011F	<0.02D1	<0.05	0.0025	11.4	<3	<0.05	0.07	94.5D1	7.2D1	0.04F	0.313
		9-Jun-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1954.83	1972	4.14D1	<0.002	<0.002	0.0029F	<0.02D1	<0.1D1	0.0029	11.3	<3	0.02FD1	0.08	102D1	6.8D1	0.08	0.335
		7-Jul-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1954.83	1972	5.14	<0.002	0.0006F	0.008F	<0.01	<0.05	0.0029	13	<3	<0.05	0.08	126D1	8.6D1	0.16	0.257

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-006D	TEST 30	4-Aug-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1954.83	1972	4.79	<0.002	<0.002	0.008F	<0.01	0.02F	0.0027	11.3	<3	<0.1D1	0.09	125D1	8.9D1	0.25	0.185
	TEST 31	26-Aug-08	N	1980.6	1983.6	301	0.0021	0.0055	0.063	0.12	0.06	0.235D1	308	8	0.62	4.48	51.7	119D1	398	0.0084
		2-Sep-08	N	1980.6	1983.6	13.4	<0.002	<0.001	0.025	0.007F	<0.05	0.0273	22.1	<5	<0.05	0.08	3.97	17.8	19.5	0.0002F
		9-Sep-08	N	1980.6	1983.6	18.9M3	<0.002	<0.001	0.008	0.009	<0.05	0.0801	35	<5	<0.05	0.16	8.44M3	21.6	45.3M3	0.0003
		16-Sep-08	N	1980.6	1983.6	12.9M3	<0.002	0.0006	0.006	0.01	<0.05	0.0752	21.5	<5	<0.05	0.11	12.3M3	14.8	16.5M3	<0.0005
		23-Sep-08	N	1980.6	1983.6	16M3	<0.002	0.0008	0.004	0.007	0.01	0.194	27.8	<5	<0.05	0.25	39.2M3	21.1D2	15.3	0.0002
		30-Sep-08	N	1980.6	1983.6	27.7M3	<0.002	0.002	<0.02	0.013	0.01	0.348D1	55.5	<5M1	0.01	0.44	47M3	36.7D1	31.9M3	0.0001
		7-Oct-08	N	1980.6	1983.6	23.1M3	<0.002	0.0027	<0.02	0.008F	<0.05	0.395D1	52.9	<5M1	<0.05	0.5	63M3	31.3D1	29.4M3	0.0002F
		14-Oct-08	N	1980.6	1983.6	8.84M3	<0.002	0.0007F	<0.02	0.004F	<0.05	0.104	20.2	<5	<0.05	0.14	15.2M3	14.1D1	22.5M3	0.0002F
		21-Oct-08	N	1980.6	1983.6	11M3	<0.002	0.001F	<0.02	0.004F	<0.05	0.15	26.6	<5	<0.05	0.18	27.7	16.1D1	26.1M3	<0.0005
		28-Oct-08	N	1980.6	1983.6	11.9M3	<0.002	0.0008F	<0.02	<0.01	<0.05M1	0.186	27.1	<5	0.01F	0.21	40.5M3	15.4D2	29.9M3	<0.0005
		4-Nov-08	N	1980.6	1983.6	3.05	<0.002	<0.002	<0.02	<0.01	<0.05	0.0585	5.6	<5	<0.05	0.06	10.3	4.4D1	8.88M3	0.0001F
	TEST 31S	11-Nov-08	N	1980.6	1983.6	10.8	<0.002	0.0015F	<0.02	0.003F	<0.05	0.257D2	26.9	<5	<0.05	0.24	59.8	17.5D2	25.5	<0.0005
		18-Nov-08	N	1980.6	1983.6	2.65	<0.002	<0.002	<0.02	<0.01	<0.05	0.0742	7.4	<5	<0.05	0.06	11.4M3	4.3D2	9.83M3	<0.0005
		25-Nov-08	N	1980.6	1983.6	1.91	<0.002V1	<0.002	<0.02	<0.01	<0.05	0.0463	4.8	<5M1	<0.05	0.04F	6.81M3	3.3D1	7.37M3	<0.0005
		2-Dec-08	N	1980.6	1983.6	2.69	<0.002	<0.002	<0.02	0.003F	<0.05	0.0575	6.5	<5	<0.05	0.06	8M3	4.9D1	10.4M3	<0.0005
		9-Dec-08	N	1980.6	1983.6	2.17	<0.002	<0.002	<0.02	<0.01	<0.05	0.0475	4.9	<5	<0.05	0.05	5.28M3	3.5D1	8.84M3	<0.0005
		16-Dec-08	N	1980.6	1983.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1980.6	1983.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 32	26-Aug-08	N	2091.13	2094.13	0.12F	0.0006F	0.0063	0.115	<0.01	0.05	0.0007	361M3	11	<0.05	0.05	0.2	2	0.04F	0.0003F
		2-Sep-08	N	2091.13	2094.13	<0.2	0.0007F	<0.001	0.041	<0.01	0.01F	<0.0005	16.4	3F	<0.05	<0.05	<0.05	1.1	<0.05	<0.0005
		9-Sep-08	N	2091.13	2094.13	0.04	<0.002	<0.001	0.024	<0.01	<0.05	<0.0005	7.5	2	<0.05	0.02	<0.05	1.1	<0.05	<0.0005
		16-Sep-08	N	2091.13	2094.13	0.08	<0.002	<0.001	0.013	0.002	<0.05	<0.0005	3.7	1	<0.05	<0.05	0.02	1.1	0.02	<0.0005
		23-Sep-08	N	2091.13	2094.13	0.06	<0.002	<0.001	0.082	<0.01	<0.05	0.0002	30.8	10	<0.05	<0.05	0.03	1.5D2	<0.05	<0.0005
		30-Sep-08	N	2091.13	2094.13	<0.2	<0.002	0.0009	0.013	<0.01	<0.05	<0.0005	21.9	8	<0.05	<0.05	0.03	0.7	<0.05	<0.0005
		7-Oct-08	N	2091.13	2094.13	0.04F	0.0007F	0.0011	0.063	<0.01	<0.05	<0.0005	31.3	8	<0.05	<0.05	0.03F	0.6	<0.05	<0.0005
		14-Oct-08	N	2091.13	2094.13	0.05F	<0.002	0.0008F	0.036	<0.01	<0.05	<0.0005	31.7	6	<0.05	<0.05	0.04F	1	0.02F	<0.0005
		21-Oct-08	N	2091.13	2094.13	0.04F	<0.002	0.0008F	0.024	<0.01	<0.05	<0.0005	19	4F	<0.05	<0.05	0.01F	1.8	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-006D	TEST 32	28-Oct-08	N	2091.13	2094.13	0.05F	<0.002	0.0006F	0.039	<0.01	<0.05	<0.0005	18.8	5	<0.05	<0.05	0.05	1.5	<0.05	<0.0005
		4-Nov-08	N	2091.13	2094.13	<0.2	<0.002	0.0013F	0.052	<0.01	<0.05	<0.0005	29.2	4F	<0.05	<0.05	0.02F	1.5	<0.05	<0.0005
	TEST 32S	11-Nov-08	N	2091.13	2094.13	<0.2	<0.002	0.002	0.029	<0.01	<0.05	0.0002F	54	9	<0.05	<0.05	0.13	3	<0.05	<0.0005
		18-Nov-08	N	2091.13	2094.13	<0.2	<0.002	<0.002	0.013F	<0.01	<0.05	<0.0005	10.7	<5	<0.05	<0.05	0.09	0.5	<0.05	0.0001F
		25-Nov-08	N	2091.13	2094.13	<0.2	<0.002V1	<0.002	0.007F	<0.01	<0.05	<0.0005	8.9	<5	<0.05	<0.05	0.13	0.3F	<0.05	<0.0005
		2-Dec-08	N	2091.13	2094.13	<0.2	<0.002	<0.002	0.007F	<0.01	<0.05	<0.0005	9	<5	<0.05	<0.05	0.15	0.3F	<0.05	<0.0005
		9-Dec-08	N	2091.13	2094.13	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	10.6	1F	<0.05	<0.05	0.14	0.2F	<0.05	<0.0005
		16-Dec-08	N	2091.13	2094.13	<0.3D1	<0.002	<0.002	0.012F	<0.01	<0.05	<0.0005	13.3	<5	<0.1D1	0.02F	0.17D1	0.3F	<0.05	<0.0005
		23-Dec-08	N	2091.13	2094.13	<0.2	--	<0.002	0.006F	0.002F	--	<0.0005	12.5	<5M1	--	0.01F	0.31	0.3F	<0.05	0.0002F
		30-Dec-08	N	2091.13	2094.13	<0.2	--	<0.002	0.006F	<0.01	--	<0.0005	12.2	<5	--	<0.05	0.38	0.2F	<0.05	0.0001F
		6-Jan-09	N	2091.13	2094.13	<0.2	--	<0.002	0.006F	<0.01	--	<0.0005	16.8	<5	--	<0.05	0.37	0.2F	<0.05	0.0002F
		13-Jan-09	N	2091.13	2094.13	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	15.7	<5	<0.05	<0.05	0.41	0.3F	<0.05	0.0002F
		20-Jan-09	N	2091.13	2094.13	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	18.7	1F	--	<0.05	0.56	0.1F	<0.05	0.0001F
		27-Jan-09	N	2091.13	2094.13	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	17.4	<5	--	<0.05	0.54	0.3F	<0.05	<0.0005
		3-Feb-09	N	2091.13	2094.13	<0.2	--	<0.002	0.005F	<0.01	--	<0.0005	18.1	<5	--	<0.05	0.65	0.3F	<0.05	<0.0005
		10-Feb-09	N	2091.13	2094.13	<0.2	<0.002	0.0005F	0.006F	<0.01	<0.05	0.0001F	18.1	<5H3	<0.05	0.01F	0.65	<10D3H3	<0.05	<0.0005
		17-Feb-09	N	2091.13	2094.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-008A	TEST 33	26-Aug-08	N	1597	1600	0.04F	0.001F	0.0028	0.022	<0.01	0.06	<0.0005	13.4	18	<0.05	<0.05	0.03F	0.4F	<0.05	<0.0005
		2-Sep-08	N	1597	1600	<0.2	0.0007F	0.0015	0.011F	<0.01	0.05	<0.0005	9.9	10	<0.05	0.01F	<0.05	0.3F	<0.05	<0.0005
		9-Sep-08	N	1597	1600	0.09	0.0009	0.0013	0.007	<0.01	0.04	<0.0005	7	2	<0.05	0.01	<0.05	0.4	<0.05	<0.0005
		16-Sep-08	N	1597	1600	0.07	0.0009	0.0016	0.005	0.002	0.03	<0.0005	7.1	<5	<0.05	<0.05	<0.05	0.4	0.02	<0.0005
		23-Sep-08	N	1597	1600	0.09	0.0005	0.0009	0.004	<0.01	0.04	<0.0005	6.5	<5	<0.05	0.01	0.01	0.3	0.03	<0.0005
		30-Sep-08	N	1597	1600	0.07	0.0006	0.0014	<0.02	<0.01	0.03	<0.0005	7	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		7-Oct-08	N	1597	1600	0.1F	0.0006F	0.0008F	0.005F	<0.01	0.02F	<0.0005	7.3	<5	<0.05	<0.05	<0.05	0.3F	0.03F	<0.0005
		14-Oct-08	N	1597	1600	0.12F	0.0005F	0.0009F	0.007F	<0.01	0.01F	<0.0005	8.5	<5	<0.05	<0.05	<0.05	3FD1	0.04F	<0.0005
		21-Oct-08	N	1597	1600	0.06F	0.0006F	0.0012F	<0.02	<0.01	0.02F	<0.0005	8.2	<5	<0.05	<0.05	<0.05	0.3F	0.04F	<0.0005
		28-Oct-08	N	1597	1600	0.07F	0.0005F	0.0009F	<0.02	<0.01	0.02F	<0.0005	9.3	<5	<0.05	<0.05	<0.05	0.3F	0.03F	<0.0005
		4-Nov-08	N	1597	1600	0.06F	0.0004F	0.0007F	0.004F	<0.01	0.01F	<0.0005	9	<5	<0.05	<0.05	<0.05	<3D3	0.04F	<0.0005
		11-Nov-08	N	1597	1600	0.08F	<0.002	0.0007F	0.005F	<0.01	0.01F	<0.0005	8.5	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		18-Nov-08	N	1597	1600	0.06F	0.0004F	0.0006F	0.004F	<0.01	0.02F	<0.0005	9.3	<5	<0.05	<0.05	<0.05	0.2F	0.02F	<0.0005
		25-Nov-08	N	1597	1600	0.04F	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	8.6	<5	<0.05	<0.05	0.01F	0.2F	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 33	2-Dec-08	N	1597	1600	0.07F	<0.002	0.0007F	0.006F	<0.01	<0.05	<0.0005	10.1	<5	<0.05	<0.05	<0.05	0.2F	0.02F	<0.0005
		9-Dec-08	N	1597	1600	0.05F	<0.002	<0.002	<0.02	<0.01	0.01F	<0.0005	9.8	<5	<0.05	<0.05	<0.05	0.2F	0.02F	<0.0005
		16-Dec-08	N	1597	1600	0.04F	<0.002	0.0006F	<0.02	<0.01	<0.05	<0.0005	9.4	<5	<0.05	0.01F	<0.05	0.1F	<0.05	<0.0005
		23-Dec-08	N	1597	1600	0.04F	--	0.0006F	0.005F	<0.01	--	<0.0005	9.2	<5	--	0.02F	<0.05	0.2F	<0.05	<0.0005
		30-Dec-08	N	1597	1600	0.05F	--	0.0006F	0.004F	<0.01	--	<0.0005	9.8	<5	--	<0.05	0.05	<0.5	<0.05	<0.0005
		6-Jan-09	N	1597	1600	0.06F	--	<0.002	0.003F	<0.01	--	<0.0005	9.7	<5	--	<0.05	<0.05	<0.5	<0.05	0.0001F
		13-Jan-09	N	1597	1600	0.05F	<0.002	0.0006F	0.004F	<0.01	<0.05	<0.0005	10.2	<5	<0.05	<0.05	<0.05	0.2F	0.02F	0.0001F
		20-Jan-09	N	1597	1600	0.05F	--	0.0007F	0.004F	<0.01	--	<0.0005	10.3	1F	--	<0.05	<0.05	<0.5	0.04F	0.0001F
		27-Jan-09	N	1597	1600	0.03F	--	<0.002	<0.02	<0.01	--	<0.0005	8.7	1F	--	<0.05	<0.05	<0.5	<0.05	<0.0005
		3-Feb-09	N	1597	1600	<0.2	--	0.0005F	0.004F	<0.01	--	<0.0005	10.4	<5	--	<0.05	0.03F	0.1F	<0.05	<0.0005
		10-Feb-09	N	1597	1600	0.04F	<0.002	0.0006F	0.003F	<0.01	<0.05	<0.0005	9.5	<5H3	<0.05	<0.05	<0.05	0.1FH3	0.02F	<0.0005
		17-Feb-09	N	1597	1600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 34	26-Aug-08	N	1717	1720	<0.2	<0.002	<0.001	0.078	<0.01	0.01F	<0.0005	102	2	<0.05	<0.05	0.02F	0.3F	<0.05	<0.0005
		2-Sep-08	N	1717	1720	0.04F	<0.002	<0.001	0.027	<0.01	<0.05	<0.0005	76.6	5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		9-Sep-08	N	1717	1720	0.1	<0.002	<0.001	0.014	<0.01	<0.05	<0.0005	61.5	<5	<0.05	0.01	<0.05	0.3	<0.05	<0.0005
		16-Sep-08	N	1717	1720	0.08	<0.002	<0.001	0.013	0.002	<0.05	<0.0005	73.4	<5	<0.05	<0.05	<0.05	0.3	<0.05	<0.0005
		23-Sep-08	N	1717	1720	0.11	<0.002	<0.001	0.008	<0.01	0.01	<0.0005	46.8	<5	<0.05	<0.05	0.01	0.2	<0.05	<0.0005
		30-Sep-08	N	1717	1720	0.07	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	41.9	<5	<0.05	<0.05	<0.05	0.2	<0.05	<0.0005
		7-Oct-08	N	1717	1720	0.09F	<0.002	<0.001	0.005F	<0.01	0.01F	<0.0005	41.4	<5	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		14-Oct-08	N	1717	1720	0.06F	<0.002	<0.001	0.006F	<0.01	<0.05	<0.0005	35.8	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		21-Oct-08	N	1717	1720	0.09F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	29	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		28-Oct-08	N	1717	1720	0.08F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	23.9	<5	<0.05	<0.05	0.02F	0.1F	<0.05	<0.0005
		4-Nov-08	N	1717	1720	0.07F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	27.9	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		11-Nov-08	N	1717	1720	0.06F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	20	<5	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		18-Nov-08	N	1717	1720	0.05F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	20	<5	<0.05	<0.05	<0.05	0.1FV1M2	<0.05	<0.0005
		25-Nov-08	N	1717	1720	<0.2	<0.002V1	<0.002M1	<0.02	<0.01	<0.05	<0.0005	17	<5	<0.05	<0.05	0.01F	<0.5	<0.05	<0.0005
		2-Dec-08	N	1717	1720	0.05F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	21.9	<5	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		9-Dec-08	N	1717	1720	0.04F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	17.9	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		16-Dec-08	N	1717	1720	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	19.4	<5	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		23-Dec-08	N	1717	1720	<0.2	--	<0.002	0.003F	<0.01	--	<0.0005	16.5	<5	--	<0.05	0.02F	0.1F	<0.05	<0.0005
		30-Dec-08	N	1717	1720	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	15.2	<5	--	<0.05	0.04F	<0.5	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 34	6-Jan-09	N	1717	1720	0.07F	--	<0.002	0.004F	<0.01	--	<0.0005	16	<5	--	<0.05	<0.05	<0.5	<0.05	<0.0005
		13-Jan-09	N	1717	1720	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	15.1	<5	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		20-Jan-09	N	1717	1720	0.04F	--	<0.002	<0.02	<0.01	--	<0.0005	16.7	1F	--	<0.05	<0.05	<0.5	<0.05	<0.0005
		27-Jan-09	N	1717	1720	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	14.9	1F	--	<0.05	<0.05	<0.5	<0.05	<0.0005
		3-Feb-09	N	1717	1720	0.05F	--	<0.002	<0.02	<0.01	--	<0.0005	14.8	<5	--	<0.05	0.02F	<0.5	<0.05	<0.0005
		10-Feb-09	N	1717	1720	0.08F	--	<0.002	0.003F	<0.01	--	<0.0005	18.7	<5	--	<0.05	0.04F	0.1F	<0.05	<0.0005
		17-Feb-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1717	1720	0.05F	<0.002V1	<0.002	0.005F	<0.01	<0.05	<0.0005	15.1	<3	<0.05	<0.05	0.07	<0.5	<0.05	<0.0005
		17-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1717	1720	0.04F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	11.8	<3	<0.05	0.01F	0.11	<0.5	<0.05	<0.0005
		14-Apr-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1717	1720	0.04F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	14.9	<3	<0.05	<0.05	0.02F	<0.5	<0.05	<0.0005
		12-May-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1717	1720	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	18	<3	<0.05	<0.05	0.02F	<0.5	<0.05	<0.0005
		9-Jun-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1717	1720	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	23.3	<3	<0.05	0.02F	0.01F	<0.5	<0.05	0.0005
		7-Jul-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1717	1720	<0.2	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	29.4	<3	<0.05	<0.05	0.02F	<0.5	<0.05	<0.0005
		4-Aug-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 34	11-Aug-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1717	1720	<0.2	<0.002	<0.002	0.004F	<0.01	0.02F	<0.0005	29.2	<3	<0.05	<0.05	0.03F	<0.5	<0.05	0.0003F
		1-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1717	1720	0.07F	<0.002	<0.002	<0.02	<0.01	0.02F	<0.0005	21.9	<30D1	<0.05	<0.05	0.01F	<5D1	<0.05	<0.0005
		29-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1717	1720	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	16.3	<3	<0.05	<0.05	0.03F	<0.5	<0.05	<0.0005
		27-Oct-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1717	1720	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	13.8	<3	<0.05	<0.05	0.01F	<0.5	<0.05	<0.0005
		24-Nov-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 35	26-Aug-08	N	1844.1	1846.6	0.05F	0.0005F	0.0011	0.136	<0.01	0.02F	0.0005	277	9	<0.05	0.08	0.04F	1.5	<0.05	<0.0005
		2-Sep-08	N	1844.1	1846.6	<0.2	<0.002	<0.001	0.027	<0.01	0.02F	<0.0005	147	37	<0.05	<0.05	0.01F	1.8	<0.05	<0.0005
		9-Sep-08	N	1844.1	1846.6	0.05	0.0004	<0.001	0.019	<0.01	0.01	0.0001	126	29	<0.05	0.02	0.01	1.6	<0.05	<0.0005
		16-Sep-08	N	1844.1	1846.6	0.03	<0.002	<0.001	0.015	0.002	<0.05	<0.0005	116	10	<0.05	<0.05	<0.05	1.6	<0.05	<0.0005
		23-Sep-08	N	1844.1	1846.6	0.07	<0.002	<0.001	0.008	<0.01	<0.05	<0.0005	97.7	4	<0.05	<0.05	0.02	1.1	<0.05	<0.0005
		30-Sep-08	N	1844.1	1846.6	<0.2	<0.002	<0.001	<0.02	<0.01	<0.05	<0.0005	97.2	3	<0.05	<0.05	<0.05	1.3	<0.05	<0.0005
		7-Oct-08	N	1844.1	1846.6	0.05F	<0.002	<0.001	0.003F	<0.01	<0.05	<0.0005	81.8	3F	<0.05	<0.05	0.01F	0.9	<0.05	<0.0005
		14-Oct-08	N	1844.1	1846.6	0.05F	<0.002	<0.001	0.007F	<0.01	<0.05	<0.0005	86.2	3F	<0.05	<0.05	0.01F	0.8	<0.05	<0.0005
		21-Oct-08	N	1844.1	1846.6	0.04F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	71.6	2F	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005
		28-Oct-08	N	1844.1	1846.6	0.06F	<0.002	<0.002	0.008F	<0.01	<0.05	<0.0005	72.3	2F	<0.05	<0.05	<0.05	1	<0.05	<0.0005
		4-Nov-08	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	60.8	2F	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		11-Nov-08	N	1844.1	1846.6	0.04F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	70.5	2F	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		18-Nov-08	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	52.9	2F	<0.05	<0.05	<0.05	1.1V1	<0.05	<0.0005
		25-Nov-08	N	1844.1	1846.6	<0.2	<0.002V1	<0.002	0.003F	<0.01	<0.05	0.0002F	49.7	2F	<0.05	<0.05	0.02F	0.9	<0.05	<0.0005
		2-Dec-08	N	1844.1	1846.6	0.03F	<0.002	<0.002	0.003F	<0.01	<0.05	<0.0005	51.9	1F	<0.05	<0.05	<0.05	1	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 35	9-Dec-08	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	46.3	1F	<0.05	<0.05	<0.05	0.6	<0.05	0.0002F
		16-Dec-08	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	43.2	1F	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		23-Dec-08	N	1844.1	1846.6	<0.2	--	<0.002	0.003F	0.002F	--	0.0001F	40	<5	--	0.01F	0.01F	0.8	<0.05	<0.0005
		30-Dec-08	N	1844.1	1846.6	<0.2	--	<0.002	0.003F	<0.01	--	0.0001F	51.9	2F	--	<0.05	0.04F	0.8	<0.05	<0.0005
		6-Jan-09	N	1844.1	1846.6	0.04F	--	<0.002	<0.02	<0.01	--	0.0001F	41.1	2F	--	<0.05	<0.05	1	<0.05	<0.0005
		13-Jan-09	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	32.6	2F	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		20-Jan-09	N	1844.1	1846.6	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	34.9	1F	--	<0.05	<0.05	0.7	<0.05	<0.0005
		27-Jan-09	N	1844.1	1846.6	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	33.1	1F	--	<0.05	<0.05	0.8	<0.05	<0.0005
		3-Feb-09	N	1844.1	1846.6	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	37.5	2F	--	<0.05	0.01F	0.8	<0.05	<0.0005
		10-Feb-09	N	1844.1	1846.6	0.06F	--	<0.002	<0.02	<0.01	--	<0.0005	31.5	2F	--	<0.05	<0.05	0.7	<0.05	<0.0005
		17-Feb-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1844.1	1846.6	0.05F	<0.002V1	<0.002	0.005F	<0.01	<0.05	<0.0005	33.7	<3M1	<0.05	<0.05	0.02F	0.9	<0.05	<0.0005
		17-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	27	<3	<0.05	<0.05	0.03F	0.7	<0.05	<0.0005
		14-Apr-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	26.8	<3	<0.05	<0.05	0.01F	0.7	<0.05	<0.0005
		12-May-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	30.4	<3	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		9-Jun-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1844.1	1846.6	0.03F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	38.4	<3	0.01F	<0.05	<0.05	0.7	<0.05	0.0003F
		7-Jul-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 35	14-Jul-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1844.1	1846.6	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	0.0002F	53.3	<3	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		4-Aug-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1844.1	1846.6	<0.2	<0.002	<0.002	<0.02	<0.01	0.02F	0.0002F	55.3	<3	<0.05	<0.05	<0.05	1.1	<0.05	0.0002F
	TEST 36	26-Aug-08	N	1979.95	1982.94	0.34	<0.002	0.0013	0.097	<0.01	0.02F	0.006	231	5	<0.05	<0.05	0.35	4	<0.05	<0.0005
		2-Sep-08	N	1979.95	1982.94	<0.2	<0.002	0.0017	0.028	<0.01	0.01F	0.0004F	179	54	<0.05	<0.05	0.02F	3.5	<0.05	<0.0005
		9-Sep-08	N	1979.95	1982.94	0.04	<0.002	0.0007	0.019	<0.01	0.01	0.0004	161	73	<0.05	0.01	0.01	2.7	<0.05	<0.0005
		16-Sep-08	N	1979.95	1982.94	0.06	<0.002	0.0009	0.017	0.002	<0.05	0.0005	155	81	<0.05	<0.05	0.02	2.6	<0.05	<0.0005
		23-Sep-08	N	1979.95	1982.94	0.11	<0.002	<0.001	0.01	<0.01	0.01	0.0004	135	45	<0.05	<0.05	0.05	1.9	<0.05	0.0002
		30-Sep-08	N	1979.95	1982.94	0.08	<0.002	0.0006	<0.02	<0.01	<0.05	0.0005	150	40	<0.05	<0.05	0.06	2.2	<0.05	0.0003
		7-Oct-08	N	1979.95	1982.94	<0.2	<0.002	<0.001	0.008F	<0.01	0.01F	0.0004F	152	26	<0.05	<0.05	0.02F	2.4	<0.05	0.0003F
		14-Oct-08	N	1979.95	1982.94	0.03F	<0.002	<0.001	0.011F	<0.01	<0.05	0.0003F	139	10	<0.05	<0.05	0.02F	2.1	<0.05	<0.0005
		21-Oct-08	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	136	11	<0.05	<0.05	<0.05	2.5	<0.05	<0.0005
		28-Oct-08	N	1979.95	1982.94	<0.2	<0.002	<0.002	0.014F	<0.01	<0.05	0.0003F	119	5	<0.05	<0.05	0.06	2.3	<0.05	<0.0005
		4-Nov-08	N	1979.95	1982.94	<0.2	<0.004D2	0.0006F	0.005F	<0.01	<0.05	0.0003F	141	3F	<0.05	<0.05	<0.05	2	<0.05	0.123
		11-Nov-08	N	1979.95	1982.94	0.04F	<0.002	<0.002	0.005F	<0.01	<0.05	0.0004F	109	1F	<0.05	<0.05	<0.05	2.2	<0.05	0.0001F
		18-Nov-08	N	1979.95	1982.94	<0.2	<0.002	<0.002	0.004F	<0.01	<0.05	0.0003F	117	2F	<0.05	<0.05	<0.05	2.6V1	<0.05	<0.0005
		25-Nov-08	N	1979.95	1982.94	<0.2	<0.002V1	<0.002	0.004F	<0.01	<0.05	0.0003F	129	4F	<0.05	<0.05	0.02F	2	<0.05	<0.0005
		2-Dec-08	N	1979.95	1982.94	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	0.0003F	117	2F	<0.05	<0.05	<0.05	2.4	<0.05	<0.0005
		9-Dec-08	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	104	4F	<0.05	<0.05	0.02F	0.7	<0.05	<0.0005
		16-Dec-08	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0003F	92	<5	<0.05	<0.05	<0.05	1.7	<0.05	<0.0005
		23-Dec-08	N	1979.95	1982.94	<0.2	--	<0.002	<0.02	<0.01	--	0.0003F	92.3	1F	--	<0.05	0.02F	1.8	<0.05	<0.0005
		30-Dec-08	N	1979.95	1982.94	<0.2	--	<0.002	0.004F	<0.01	--	0.0003F	101	1F	--	<0.05	0.04F	1.9	<0.05	<0.0005
		6-Jan-09	N	1979.95	1982.94	<0.2	--	<0.002	0.003F	<0.01	--	0.0002F	94.4	4F	--	<0.05	<0.05	1.8	<0.05	<0.0005
		13-Jan-09	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	79.8	2F	0.01F	<0.05	<0.05	2.1	<0.05	<0.0005
		20-Jan-09	N	1979.95	1982.94	<0.2	--	<0.002	<0.02	<0.01	--	0.0002F	83.6	1F	--	<0.05	<0.05	2.1	<0.05	<0.0005
		27-Jan-09	N	1979.95	1982.94	<0.2	--	<0.002	<0.02	<0.01	--	0.0002F	86.8	<5	--	<0.05	<0.05	1.6	<0.05	<0.0005
		3-Feb-09	N	1979.95	1982.94	<0.2	--	<0.002	<0.02	<0.01	--	0.0002F	83.6	<5	--	<0.05	0.02F	2.1	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 36	10-Feb-09	N	1979.95	1982.94	0.04F	--	<0.002	<0.02	<0.01	--	0.0002F	88.4	4F	--	<0.05	<0.05	2.4	<0.05	<0.0005
		17-Feb-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1979.95	1982.94	<0.2	<0.002V1	<0.002	0.006F	<0.01	<0.05	0.0002F	88.7	<3	<0.05	<0.05	0.01F	2.2	<0.05	<0.0005
		17-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	73.6	<3	<0.05	0.01F	0.02F	1.8	<0.05	<0.0005
		14-Apr-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	85	<3	<0.05	<0.05	0.02F	2	<0.05	<0.0005
		12-May-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	101	<3	<0.05	<0.05	<0.05	2.7	<0.05	0.0002F
		9-Jun-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	97.6	<3	<0.05	<0.05	0.01F	3.2	<0.05	0.0003F
		7-Jul-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1979.95	1982.94	<0.2	0.0013F	<0.002	0.004F	<0.01	<0.05	0.0003F	118	<3	<0.05	<0.05	0.02F	2.7	<0.05	<0.0005
		4-Aug-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1979.95	1982.94	<0.2	<0.002	<0.002	<0.02	<0.01	0.02F	0.0005	131	<3	<0.05	0.01F	0.04F	3	<0.05	0.0003F
	TEST 37	26-Aug-08	N	2053.81	2056.81	0.04F	<0.002	<0.001	0.068	<0.01	<0.05	0.0004F	260	10	<0.05	0.04F	0.02F	0.2FM2	<0.05	<0.0005
		2-Sep-08	N	2053.81	2056.81	<0.2	<0.002	<0.001	0.012F	<0.01	<0.05	<0.0005	193	70D1M2	<0.05	<0.05	<0.05	1.2	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 37	9-Sep-08	N	2053.81	2056.81	0.05	<0.002	<0.001	0.011	<0.01	<0.05	<0.0005	210	30	<0.05	0.02	<0.05	1.1	<0.05	<0.0005
		16-Sep-08	N	2053.81	2056.81	<0.2	<0.002	<0.001	0.011	0.002	<0.05	<0.0005	131	5	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005
		23-Sep-08	N	2053.81	2056.81	<0.2	<0.002	<0.001	0.005	<0.01	0.01	<0.0005	203	6	<0.05	0.01	0.02	1.3	<0.05	<0.0005
		30-Sep-08	N	2053.81	2056.81	<0.2	<0.002	<0.001	<0.03D1	<0.01	<0.1D1	<0.0005	145	4	<0.05	<0.05	<0.05	1	<0.05	<0.0005
		7-Oct-08	N	2053.81	2056.81	0.03F	<0.002	<0.001	<0.02	<0.01	0.01F	<0.0005	111	4F	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		14-Oct-08	N	2053.81	2056.81	0.04F	<0.002	<0.001	0.009F	<0.01	<0.05	<0.0005	91.3	3F	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		21-Oct-08	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	99.9	3F	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		28-Oct-08	N	2053.81	2056.81	0.06F	<0.002	<0.002	0.004F	<0.01	<0.05	<0.0005	80.5	2F	<0.05	<0.05	0.18	0.6	<0.05	<0.0005
		4-Nov-08	N	2053.81	2056.81	<0.2	0.0009F	<0.002	<0.02	<0.01	<0.05	<0.0005	80.1	2F	<0.05	<0.05	<0.05	0.1F	<0.05	<0.0005
		11-Nov-08	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	78.7	1F	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		18-Nov-08	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	90.4	1F	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		25-Nov-08	N	2053.81	2056.81	<0.2	<0.002V1	<0.002	<0.02	<0.01	<0.05	<0.0005	67.1	1F	<0.05	<0.05	0.01F	0.5	<0.05	<0.0005
		2-Dec-08	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	0.002F	<0.05	<0.0005	70.1	2F	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		9-Dec-08	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	86	2F	<0.05	<0.05	0.01F	1.8	<0.05	<0.0005
		16-Dec-08	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	62.9	1F	<0.05	<0.05	<0.05	0.6M2	<0.05	<0.0005
		23-Dec-08	N	2053.81	2056.81	<0.2	--	<0.002	<0.02	0.002F	--	<0.0005	75.4	<5	--	<0.05	<0.05	0.6	<0.05	<0.0005
		30-Dec-08	N	2053.81	2056.81	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	62.5	<5	--	<0.05	0.02F	0.4F	<0.05	<0.0005
		6-Jan-09	N	2053.81	2056.81	0.03F	--	<0.002	0.004F	<0.01	--	<0.0005	67	2F	--	<0.05	<0.05	0.5	<0.05	0.0001F
		13-Jan-09	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	45.4	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		20-Jan-09	N	2053.81	2056.81	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	62.4	1F	--	<0.05	<0.05	0.5	<0.05	<0.0005
		27-Jan-09	N	2053.81	2056.81	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	44.3	<5	--	<0.05	<0.05	0.4F	<0.05	<0.0005
		3-Feb-09	N	2053.81	2056.81	0.03F	--	<0.002	<0.02	<0.01	--	<0.0005	46.6	<5	--	<0.05	<0.05	0.5	<0.05	<0.0005
		10-Feb-09	N	2053.81	2056.81	0.03F	--	<0.002	<0.02	<0.01	--	<0.0005	45.7	<5	--	<0.05	<0.05	0.4F	<0.05	<0.0005
		17-Feb-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	2053.81	2056.81	<0.2	<0.002V1	<0.002	0.004F	<0.01	<0.05	<0.0005	46.4	<3	<0.05	<0.05	0.01F	0.4F	<0.05	<0.0005
		17-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	40.5	<3	<0.05	0.01F	<0.05	0.4F	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	TEST 37	14-Apr-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	37.6	<3	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		12-May-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	57.9	<3	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		9-Jun-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	2053.81	2056.81	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	36.6	<3	<0.05	0.01F	<0.05	0.3F	<0.05	0.0002F
		7-Jul-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	2053.81	2056.81	0.04F	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	71.4	<3	<0.05	<0.05	0.06	0.7	<0.05	<0.0005
		4-Aug-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	2053.81	2056.81	0.1F	<0.002	<0.002	<0.02	<0.01	0.02F	0.0002F	57.1	<3	<0.05	0.02F	0.38	0.5	<0.05	0.0002F
RES-009	TEST 38	26-Aug-08	N	278.9	281.09	0.15F	<0.002	0.0035	<0.02	<0.01	0.04F	<0.0005	3.2	4	<0.05	<0.05	0.01F	0.3F	<0.05	<0.0005
		2-Sep-08	N	278.9	281.09	0.08F	<0.002	0.0025	<0.02	<0.01	0.03F	<0.0005	2.3	4F	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		9-Sep-08	N	278.9	281.09	0.12	<0.002	0.0017	0.003	<0.01	0.02	<0.0005	2.1	2	<0.05	0.02	<0.05	0.1	<0.05	<0.0005
		16-Sep-08	N	278.9	281.09	0.13	<0.002	0.0017	0.004	0.002	0.01	<0.0005	2.2	1	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		23-Sep-08	N	278.9	281.09	0.12	<0.002	0.0015	<0.02	<0.01	0.03	<0.0005	1.8	<5	<0.05	<0.05	0.02	<0.5	<0.05	<0.0005
		30-Sep-08	N	278.9	281.09	0.24	<0.002	0.0019	<0.02	<0.01	<0.05	<0.0005	2.2	<5	<0.05	<0.05	<0.05	0.1	0.03	<0.0005
		7-Oct-08	N	278.9	281.09	0.14F	<0.002	0.0016	<0.02	<0.01	0.01F	<0.0005	2.3	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		14-Oct-08	N	278.9	281.09	0.18F	<0.002	0.0012	0.01F	<0.01	<0.05	<0.0005	2.5	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		21-Oct-08	N	278.9	281.09	0.15F	<0.002	0.0016F	<0.02	<0.01	0.01F	<0.0005	2.5	<5	<0.05	<0.05	<0.05	<0.5	0.02F	<0.0005
		28-Oct-08	N	278.9	281.09	0.16F	<0.002	0.0013F	<0.02	<0.01	<0.05	<0.0005	2.6	<5	<0.05	<0.05	0.01F	<0.5	<0.05	<0.0005
		4-Nov-08	N	278.9	281.09	0.12F	<0.002	0.0012F	<0.02	<0.01	<0.05	<0.0005	2.6	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009	TEST 38	11-Nov-08	N	278.9	281.09	0.14F	<0.002	0.0012F	<0.02	<0.01	<0.05	<0.0005	2.8	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		18-Nov-08	N	278.9	281.09	0.12F	<0.002	0.0009F	<0.02	<0.01	<0.05	<0.0005	2.6	<5	<0.05	<0.05	<0.05	<0.5	<0.05	0.0001F
		25-Nov-08	N	278.9	281.09	0.07F	<0.002V1	<0.002	<0.02	<0.01	<0.05	<0.0005	2.3	<5	<0.05	<0.05	0.01F	<0.5	<0.05	<0.0005
		2-Dec-08	N	278.9	281.09	0.11F	<0.002	0.0008F	0.003F	<0.01	<0.05	<0.0005	2.6	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		9-Dec-08	N	278.9	281.09	0.07F	<0.002	0.0005F	<0.02	<0.01	<0.05	<0.0005	2.7	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		16-Dec-08	N	278.9	281.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	278.9	281.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 39	26-Aug-08	N	645.59	647.52	0.28	<0.002	0.0099	<0.02	<0.01	0.49	<0.0005	1.9	6	<0.05	0.01F	0.01F	1.5	<0.05	<0.0005
		2-Sep-08	N	645.59	647.52	0.29	<0.002	0.0062	<0.02	<0.01	0.43	<0.0005	1.4	5	<0.05	<0.05	<0.05	1.2	0.05	<0.0005
		9-Sep-08	N	645.59	647.52	0.27	<0.002	0.0035	0.004	<0.01	0.31	<0.0005	1.2	3	<0.05	<0.05	<0.05	1.1M2	0.04	<0.0005
		16-Sep-08	N	645.59	647.52	0.23	<0.002	0.0042	0.004	0.002	0.29	<0.0005	1.3	2	<0.05	<0.05	<0.05	1.1	0.04	<0.0005
		23-Sep-08	N	645.59	647.52	0.3	<0.002	0.0038	<0.02	<0.01	0.35	<0.0005	1.5	1	<0.05	<0.05	0.02	1.3	0.07	0.0001
		30-Sep-08	N	645.59	647.52	0.3	<0.002	0.0033	<0.02	<0.01	0.23	<0.0005	1.2	<5	<0.05	<0.05	<0.05	1.1	0.08	<0.0005
		7-Oct-08	N	645.59	647.52	0.3	<0.002	0.0029	<0.02	<0.01	0.19	<0.0005	1.2	<5	<0.05	<0.05	<0.05	0.9	0.07	<0.0005
		14-Oct-08	N	645.59	647.52	0.28	<0.002	0.0023	0.008F	<0.01	0.18	<0.0005	1.6	<5	<0.05	<0.05	0.01F	0.9	0.1	<0.0005
		21-Oct-08	N	645.59	647.52	0.29	<0.002	0.0021	<0.02	<0.01	0.13	<0.0005	1.6	<5	<0.05	<0.05	<0.05	0.8	0.09	<0.0005
		28-Oct-08	N	645.59	647.52	0.23	<0.002	0.0016F	<0.02	<0.01	0.13	<0.0005	1.7	<5	<0.05	<0.05	<0.05	0.7	0.05	<0.0005
		4-Nov-08	N	645.59	647.52	0.21	<0.002	0.0017F	<0.02	<0.01	0.12	<0.0005	2	<5	<0.05	<0.05	<0.05	0.2F	0.06	<0.0005
		11-Nov-08	N	645.59	647.52	0.26	<0.002	0.002	<0.02	<0.01	0.1	<0.0005	2.3	<5	<0.05	<0.05	<0.05	0.7	0.09	<0.0005
		18-Nov-08	N	645.59	647.52	0.2	<0.002	0.0015F	<0.02	<0.01	0.07	<0.0005	2	<5	<0.05	<0.05	<0.05	0.6	0.06	<0.0005
		25-Nov-08	N	645.59	647.52	0.14F	<0.002	0.001F	<0.02	<0.01	0.07	<0.0005	2.3	<5	<0.05	<0.05	0.02F	0.6	0.05	<0.0005
		2-Dec-08	N	645.59	647.52	0.18F	<0.002	0.0015F	<0.02	<0.01	0.07	<0.0005	2.4	<5	<0.05	<0.05	<0.05	0.7	0.09	<0.0005
		9-Dec-08	N	645.59	647.52	0.17F	<0.002	0.0014F	<0.02	<0.01	0.06	<0.0005	2.3	<5	<0.05	<0.05	<0.05	0.6	0.06	<0.0005
		16-Dec-08	N	645.59	647.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	645.59	647.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 40	26-Aug-08	N	804.84	807	0.08F	<0.002	0.0042	0.039	<0.01	0.43	<0.0005	30.7	8	<0.05	<0.05	<0.05	1.2	<0.05	<0.0005
		2-Sep-08	N	804.84	807	<0.2	<0.002	0.0032	0.019F	<0.01	0.62	<0.0005	76.1	7	<0.05	<0.05	<0.05	1.2	<0.05	<0.0005
		9-Sep-08	N	804.84	807	0.07	<0.002	0.0013	0.017	<0.01	0.51	<0.0005	98.1	2	<0.05	<0.05	<0.05	0.9	<0.05	<0.0005
		16-Sep-08	N	804.84	807	0.04	<0.002	0.0007	0.011	0.002	0.27	<0.0005	53.4	<5	<0.05	<0.05	<0.05	0.5	<0.05	<0.0005
		23-Sep-08	N	804.84	807	0.05	<0.002	0.0008	0.013	<0.01	0.39	<0.0005	119	<5	<0.05	<0.05	0.02	0.7	<0.05	<0.0005
		30-Sep-08	N	804.84	807	0.03	<0.002	0.0009	0.004	<0.01	0.31	<0.0005	90.6	<5	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009	TEST 40	7-Oct-08	N	804.84	807	0.06F	<0.002	0.0008F	0.011F	0.013	0.28	<0.0005	100	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		14-Oct-08	N	804.84	807	<0.2	<0.002	0.0006F	0.018F	<0.01	0.21	<0.0005	94.3	<5	<0.05	<0.05	0.01F	0.4F	<0.05	<0.0005
		21-Oct-08	N	804.84	807	<0.2	<0.002	0.0011F	0.004F	<0.01	0.19	<0.0005	80.2	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		28-Oct-08	N	804.84	807	<0.2	<0.002	<0.002	0.016F	<0.01	0.16	<0.0005	70.2	<5	<0.05	<0.05	0.01F	0.3F	<0.05	<0.0005
		4-Nov-08	N	804.84	807	<0.2	<0.002	<0.002	0.009F	<0.01	0.14	<0.0005	83.7	<5	<0.05	<0.05	<0.05	<0.5	<0.05	<0.0005
		11-Nov-08	N	804.84	807	0.04F	<0.002	0.0006F	0.007F	<0.01	0.13	<0.0005	77.2	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		18-Nov-08	N	804.84	807	<0.2	<0.002	<0.002	0.008F	<0.01	0.15	<0.0005	87.7	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		25-Nov-08	N	804.84	807	<0.2	<0.002	<0.002	0.007F	<0.01	0.1	<0.0005	78.3	<5	<0.05	<0.05	0.02F	0.3F	<0.05	<0.0005
		2-Dec-08	N	804.84	807	<0.2	<0.002	<0.002	0.007F	<0.01	0.07	<0.0005	71.7	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		9-Dec-08	N	804.84	807	<0.2	<0.002	0.0006F	0.01F	<0.01	0.15	<0.0005	121	<5	<0.05	<0.05	0.01F	0.5	<0.05	<0.0005
		16-Dec-08	N	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 41	26-Aug-08	FD	804.84	807	0.07F	<0.002	0.0049	0.037	<0.01	0.51	<0.0005	35.1	10	<0.05	<0.05	0.01F	1.2	<0.05	<0.0005
		2-Sep-08	FD	804.84	807	<0.2	0.0006F	0.0029	0.018F	<0.01	0.7	<0.0005	80.4	6	<0.05	<0.05	<0.05	1.1	<0.05	<0.0005
		9-Sep-08	FD	804.84	807	0.04	0.0006	0.0012	0.017	<0.01	0.52	<0.0005	92.5	1	<0.05	0.01	<0.05	0.9	<0.05	<0.0005
		16-Sep-08	FD	804.84	807	0.05	<0.002	0.001	0.011	<0.01	0.3	<0.0005	56.5	<5	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		23-Sep-08	FD	804.84	807	0.03	<0.002	0.0012	0.01	<0.01	0.34	<0.0005	95.4	<5	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		30-Sep-08	FD	804.84	807	<0.2	0.0005	0.0011	0.01	<0.01	0.27	<0.0005	77.8	<5M1	<0.05	<0.05	<0.05	0.7	<0.05	0.0002
		7-Oct-08	FD	804.84	807	<0.2	<0.002	0.0007F	0.011F	<0.01	0.23	<0.0005	75	<5	<0.05	<0.05	<0.05	0.6M2	<0.05	<0.0005
		14-Oct-08	FD	804.84	807	0.04F	<0.002	<0.001	0.01F	<0.01	0.08	<0.0005	22M1	<5	<0.05	<0.05	<0.05	0.2F	<0.05	0.0001F
		21-Oct-08	FD	804.84	807	0.06F	<0.002	0.0008F	0.004F	<0.01	0.15	<0.0005	64	<5M1	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		28-Oct-08	FD	804.84	807	<0.2	<0.002	0.0007F	0.008F	<0.01	0.12	<0.0005	69.8	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		4-Nov-08	FD	804.84	807	<0.2	<0.002V1	0.0007F	0.008F	<0.01	0.12	<0.0005	77	<5	<0.05	<0.05	<0.05	0.4F	<0.05	<0.0005
		11-Nov-08	FD	804.84	807	<0.2	<0.002	<0.002	0.007F	<0.01	0.11	<0.0005	76.3	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		18-Nov-08	FD	804.84	807	<0.2	<0.002	<0.002	0.008F	<0.01	0.1	<0.0005	76.2	<5	<0.05	<0.05	<0.05	0.3F	<0.05	<0.0005
		25-Nov-08	FD	804.84	807	<0.2	<0.002	0.0005F	0.008F	<0.01	0.08	<0.0005	71.6	<5M1	<0.05	<0.05	<0.05	0.2F	<0.05	<0.0005
		2-Dec-08	FD	804.84	807	<0.2	<0.002	0.0005F	<0.02	<0.01	0.06	<0.0005	62.5	<5M1	<0.05	<0.05	<0.05	0.2F	<0.05	0.0002F
		9-Dec-08	FD	804.84	807	<0.2	<0.002	0.0005F	0.007F	<0.01	0.07	<0.0005	73.5	<5M1	<0.05	<0.05	0.01F	0.3F	<0.05	<0.0005
		16-Dec-08	FD	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	FD	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 42	26-Aug-08	N	994.67	997.67	0.04F	<0.002	0.0045	0.14D1	<0.05D1	0.26FD1	0.0003F	275	65	<0.05	<0.05	0.02F	1.4	<0.05	0.0008

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009	TEST 42	2-Sep-08	N	994.67	997.67	0.07F	<0.002	0.0007F	0.069	<0.01	0.1	0.0002F	39.5	1F	<0.05	<0.05	<0.05	1.4	<0.05	<0.0005
		9-Sep-08	N	994.67	997.67	0.08	<0.002	0.0017	0.033	<0.01	0.11	<0.0005	12.5	<5	<0.05	0.01	<0.05	4.5	<0.05	<0.0005
		16-Sep-08	N	994.67	997.67	0.13	<0.002	0.0015	0.027	<0.01	0.02	<0.0005	5.3	<5	<0.05	0.01	<0.05	1.5	<0.05	<0.0005
		23-Sep-08	N	994.67	997.67	0.22	<0.002	0.0018	0.007	<0.01	0.02	<0.0005	2.7	<5	<0.05	0.01	<0.05	1.1	0.02	0.0002
		30-Sep-08	N	994.67	997.67	0.2	<0.002	0.0014	0.016	<0.01	<0.05	<0.0005	3.2	<5	<0.05	<0.05	<0.05	0.7	0.02	0.0002
		7-Oct-08	N	994.67	997.67	0.12F	<0.002	0.001	0.023	<0.01	0.01F	<0.0005	2.8	<5	<0.05	<0.05	<0.05	0.4F	0.02F	<0.0005
		14-Oct-08	N	994.67	997.67	0.13F	<0.002	0.001	0.029	<0.01	0.01F	<0.0005	4.1	<5	<0.05	<0.05	0.01F	0.4F	<0.05	<0.0005
		21-Oct-08	N	994.67	997.67	0.17F	<0.002	0.0018F	0.027	<0.01	0.01F	<0.0005	4	<5	<0.05	<0.05	<0.05	0.7	0.04F	0.0001F
		28-Oct-08	N	994.67	997.67	0.09F	<0.002	0.0014F	0.035	<0.01	0.01F	<0.0005	4.1	<5	<0.05	<0.05	<0.05	0.7	<0.05	<0.0005
		4-Nov-08	N	994.67	997.67	0.09F	<0.002	0.0017F	0.045	<0.01	<0.05	<0.0005	5.1	<5	<0.05	<0.05	<0.05	1	<0.05	0.0001F
		11-Nov-08	N	994.67	997.67	0.09F	<0.002	0.001F	0.038	<0.01	<0.05	<0.0005	4.2	<5	<0.05	<0.05	<0.05	0.6	<0.05	<0.0005
		18-Nov-08	N	994.67	997.67	0.08F	<0.002	0.0012F	0.067	<0.01	0.02F	<0.0005	6.1	<5	<0.05	<0.05	<0.05	0.8	0.02F	<0.0005
		25-Nov-08	N	994.67	997.67	0.14F	<0.002	0.0019F	0.099	<0.01	0.04F	<0.0005	8.7	<5	<0.05	<0.05	<0.05	2.9	0.05	0.0001F
		2-Dec-08	N	994.67	997.67	0.1F	<0.002	0.0019F	0.052	<0.01	<0.05	<0.0005	5.2	<5	<0.05	<0.05	<0.05	1	0.02F	0.0003F
		9-Dec-08	N	994.67	997.67	0.09F	<0.002	0.0015F	0.06	<0.01	<0.05	<0.0005	5.4	<5	<0.05	<0.05	<0.05	0.8	<0.05	<0.0005
		16-Dec-08	N	994.67	997.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	994.67	997.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-009E	TEST 43	26-Aug-08	N	1351.03	1354.03	21.2	<0.002	0.002	0.134D1	0.005FD1	0.09FD1	0.0244	224	26	<0.05	0.77	106D1	24D1	6.74	0.0053
		2-Sep-08	N	1351.03	1354.03	4.91	0.0005F	<0.001	0.048	0.002F	0.03F	0.0008	19.3	1F	<0.05	0.03F	8.6	5.5	0.69	0.001
		9-Sep-08	N	1351.03	1354.03	4.24	0.0014	<0.001	0.052	<0.01	<0.05	0.0008	12.3	<5	<0.05	0.03	17.7	5.1D2	0.54	0.0005
		16-Sep-08	N	1351.03	1354.03	3.98	<0.002	<0.001	0.039	0.002	0.01	0.0007	9.9	<5	<0.05	0.03	20.4	3.9D1	1.04	0.0006
		23-Sep-08	N	1351.03	1354.03	3.29	<0.002	<0.001	0.03	<0.01	<0.05	0.0009	6.5	<5	<0.05	0.03	32.3	2.5D2	1.18	0.0004
		30-Sep-08	N	1351.03	1354.03	3.07	<0.002	<0.001	0.02	<0.01	<0.05	0.001	5.7	<5	<0.05	0.01	30	1.8D1	1.34	0.0006
		7-Oct-08	N	1351.03	1354.03	3.14	<0.002	<0.001	0.015F	<0.01	<0.05	0.0009	5	<5	<0.05	0.02F	30	1.4FD1	1.3	0.0006
		14-Oct-08	N	1351.03	1354.03	3.6	<0.002	<0.001	0.011F	<0.01	<0.05	0.0009	5.8	<5	<0.05	0.03F	31.3	1.5FD1M2	1.28	0.0005
		21-Oct-08	N	1351.03	1354.03	3.47	<0.002	<0.002	0.009F	<0.01	<0.05	0.001	5.5	<5	<0.05	0.01F	29	2FD1	1.5	0.0007
		28-Oct-08	N	1351.03	1354.03	3.44	<0.002	<0.002	0.01F	<0.01	<0.05	0.001	5.2	<5	<0.05	0.03F	30.3	1.7FD2	1.52	0.0005
		4-Nov-08	N	1351.03	1354.03	4.3	<0.002	<0.002	0.01F	0.002F	<0.05	0.001	5.5	<5	<0.05	0.02F	31	2.5FD1	2.14	0.0004F
		11-Nov-08	N	1351.03	1354.03	4.02	<0.002	<0.002	0.01F	0.003F	<0.05	0.0011	5.3	<5	<0.05	0.02F	29.9	2.1FD2	1.88	0.0002F
		18-Nov-08	N	1351.03	1354.03	3.7	<0.002	<0.002	0.008F	<0.01	<0.05	0.001	4.6	<5	<0.05	0.02F	26.3	2FD2	1.79	0.0004F
		25-Nov-08	N	1351.03	1354.03	3.81	<0.002	<0.002	0.009F	<0.01	<0.05	0.0009	4.6	<5	<0.05	0.03F	26.2B3	1.8	1.32	0.0004F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 43	2-Dec-08	N	1351.03	1354.03	4.59	<0.002	<0.002	0.003F	<0.01	<0.05	0.0012	5.8	<5	<0.05	0.01F	34.2	2.1	1.61	0.0005
		9-Dec-08	N	1351.03	1354.03	4.87	<0.002	<0.002	0.013F	<0.01	<0.05	0.0013	7.3	<5	<0.05	0.02F	35.6	2.7FD1	1.44	0.0003F
		16-Dec-08	N	1351.03	1354.03	4.3	<0.002	<0.002	0.023	<0.01	<0.05	0.0011	5.9	<5	<0.05	0.02F	34.5	2.1FD1	1.64	0.0005
		23-Dec-08	N	1351.03	1354.03	3.38	--	<0.002	0.009F	0.004F	--	0.0009	3.7	<5	--	0.02F	25	1.9FD1	1.26	0.0004F
		30-Dec-08	N	1351.03	1354.03	3.81	--	<0.002	0.008F	<0.01	--	0.001	4.3	<5	--	0.02F	29.5	1.2FD1	1.56	0.0002F
		6-Jan-09	N	1351.03	1354.03	4.21	--	<0.002	0.011F	0.002F	--	0.0011	4.7	<5	--	0.01F	32.7	1.9FD1	2.07	0.0004F
		13-Jan-09	N	1351.03	1354.03	3.4	<0.002	<0.002	0.007F	<0.01	<0.05	0.0009	3.3	<5	<0.05	0.02F	23.5	1.6FD1	1.69	0.0004F
		20-Jan-09	N	1351.03	1354.03	3.58	--	<0.002	0.007F	<0.01	--	0.0009	3.2	1F	--	0.02F	23.6	1.5FD1	1.93	0.0004F
		27-Jan-09	N	1351.03	1354.03	4.42	--	<0.002	0.007F	<0.01	--	0.001	3.8	1F	--	0.02F	27	1.6FD1	1.98	0.0002F
		3-Feb-09	N	1351.03	1354.03	5.26	--	<0.002	0.007F	0.002F	--	0.0012	4.1	<5	--	0.02F	31	1.9FD1	2.37	0.0005
		10-Feb-09	N	1351.03	1354.03	4.51	--	<0.002	0.008F	<0.01	--	0.001	3.6	<5	--	0.02F	26	1.9FD1	2.56	0.0004F
		17-Feb-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1351.03	1354.03	4.7	<0.002V1	<0.002	0.008F	<0.01	<0.05	0.0009	3.4	<3	<0.05	0.02F	24.6	1.8	1.79	0.0003F
		17-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1351.03	1354.03	3.58	<0.002	<0.002	0.004F	<0.01	<0.05	0.0008	2.5	<3	<0.05	0.02F	17.6	1.4	1.66	0.0001F
		14-Apr-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1351.03	1354.03	5.52	<0.002	<0.002	<0.02	<0.01	<0.05	0.0011	2.9	<3	<0.05	0.02F	27.8	1.8	2.03	0.0002F
		12-May-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1351.03	1354.03	4.45	<0.002	<0.002	0.004F	0.002F	<0.05	0.0008	2.2	<3	<0.05	0.02F	21.8	1.2	3.19	0.0002F
		9-Jun-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1351.03	1354.03	7.63	<0.002	<0.002	<0.02	<0.01	<0.05	0.0013	2.7	<3	<0.05	0.02F	29	1.5	6.01	0.0007

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 43	7-Jul-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1351.03	1354.03	9.43	<0.002	<0.002	<0.02	0.003F	<0.05	0.0015	3.4	<3	<0.05	0.01F	40.1	1.6	6.86	0.0004F
		4-Aug-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1351.03	1354.03	11	<0.002	<0.002	0.003F	0.003F	0.02F	0.0015	4.2	<3	<0.05	0.03F	38.5	1.6	4.36	0.0005
	TEST 44	26-Aug-08	N	1510.74	1527.19	5.14	0.0008F	0.0021	0.15	0.028	0.04F	0.0445	68	5	<0.05	1.35	42.5	3.1D1	4.69	0.0013
		2-Sep-08	N	1510.74	1527.19	9.8D1	<0.002	0.0016	0.023	0.043	0.04F	0.0424	66.8	3F	<0.05	1.55	118D1	6.7D1	2.2	0.0003F
		9-Sep-08	N	1510.74	1527.19	10.6D2	0.0006	0.0012	0.011D2	0.047D2	0.03D2	0.0409	52.7	1	<0.05	1.22D2	159D2	9D2	2.7	0.0005
		16-Sep-08	N	1510.74	1527.19	9.55	<0.002	0.0011	0.004	0.041	<0.05	0.0327	32	<5	<0.05	0.82	134D1	7.2D1	3.64	0.0005
		23-Sep-08	N	1510.74	1527.19	8.63D2	<0.002	0.0012	<0.02	0.039D2	<0.05	0.0388	24.3	<5	<0.05	0.59	140D2	4D2	5.8	0.0003
		30-Sep-08	N	1510.74	1527.19	9.6	<0.002	0.0013	<0.02	0.039	<0.1D1	0.0486	20.1	<5	<0.05	0.49	149D1	5D1	8.5	0.0003
		7-Oct-08	N	1510.74	1527.19	9.66D1	<0.002	0.0007F	0.003F	0.038D1	0.01F	0.0509B7	16.3	<5	<0.05	0.38	179D1	3FD1	10.5	0.0001F
		14-Oct-08	N	1510.74	1527.19	7.09D1	<0.002	<0.001	<0.03D1	0.026D1	<0.05	0.0362	10.8	<5	<0.05	0.25	139D1	<10D1	9.03	<0.0005
		21-Oct-08	N	1510.74	1527.19	8.05D1	<0.002	0.0011F	<0.02	0.023D1	<0.05	0.0436	10.4	<5	<0.05	0.21	160D1	3FD1	13.4	0.0003F
		28-Oct-08	N	1510.74	1527.19	5.76D2	<0.002	0.0009F	<0.03D2	0.021	<0.05	0.0329	7.6	<5	<0.05	0.15	131D2	<10D2	12.1	0.0001F
		4-Nov-08	N	1510.74	1527.19	6.3D2	<0.002	0.0008F	<0.02	0.019	<0.1D2	0.035	7.2	<5	<0.1D2	0.13	147D2	2FD1	15.1	0.0009
		11-Nov-08	N	1510.74	1527.19	5.72D2	<0.002	0.0009F	<0.02	0.017	<0.1D2	0.0342	6.6	<5	<0.05	0.12	140D2	<10D2	13.7	<0.0005
		18-Nov-08	N	1510.74	1527.19	5.22	<0.002	0.001F	<0.02	0.013	<0.05	0.0312	5.8	<5	<0.05	0.09	126D2	10D2M2V	14.8	<0.0005
		25-Nov-08	N	1510.74	1527.19	5.26	<0.002	0.0006F	<0.02	0.013	<0.05	0.0302	6	<5	<0.05	0.1	129D1B3	1.2	16.5	<0.0005
		2-Dec-08	N	1510.74	1527.19	3.78D1	<0.002	0.0007F	<0.02	0.007F	<0.1D1	0.0251	5	<5	<0.1D1	0.07	115D1	1	13.7	0.0002F
		9-Dec-08	N	1510.74	1527.19	3.76	<0.002	0.0006F	<0.03D1	0.008FD1	<0.1D1	0.0229	4.7	<5	<0.05	0.07	109D1M3	<20D1	15.8	<0.0005
		16-Dec-08	N	1510.74	1527.19	3.18D1	<0.002	0.0006F	<0.02	0.005F	<0.05	0.0214	4.8	<5	<0.1D1	0.07	100D1	<20D1	16.1	0.0001F
		23-Dec-08	N	1510.74	1527.19	3.67D1	--	0.0007F	<0.03D2	<0.02D2	--	0.021	4.5	<5	--	0.06	118D1M3	<20D1	16.8M3	<0.0005
		30-Dec-08	N	1510.74	1527.19	4.01	--	0.0007F	0.004F	<0.05D1	--	0.0203	5.6	<5	--	0.07	136D1	<20D1	21.9	<0.0005
		6-Jan-09	N	1510.74	1527.19	3.58	--	<0.002	<0.02	0.005FD1	--	0.0195	4.8	<5	--	0.05	115D1	<20D1	21.5	0.0001F
		13-Jan-09	N	1510.74	1527.19	3.39	<0.002	0.0007F	<0.02	0.003F	<0.05	0.018	4.6	<5	<0.05	0.05	103D1B7	<20D1	19.9	0.0001F
		20-Jan-09	N	1510.74	1527.19	3.92	--	0.0008F	<0.02	0.004F	--	0.0193	5.5	1F	--	0.06	108D1	<20D1	27.1	<0.0005
		27-Jan-09	N	1510.74	1527.19	3.68	--	0.0006F	<0.02	0.002F	--	0.0168	5.1	<5	--	0.05	105D1	<20D1	26.2	0.0001F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 44	3-Feb-09	N	1510.74	1527.19	3.53	--	0.0006F	<0.02	0.003F	--	0.0161	5.1	<5	--	0.05	98.2D1	<20D1	28.1	<0.0005
		10-Feb-09	N	1510.74	1527.19	4.53	--	<0.002	<0.02	<0.01	--	0.0187	6.5	<5	--	0.06	116D2	<20D1	38D2	0.0024
		17-Feb-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1510.74	1527.19	5.52	<0.002V1	0.0005F	0.005F	0.004F	<0.05	0.0192	9.7	<3	0.01F	0.07	125D2	1	75.5	0.0002F
		17-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1510.74	1527.19	6.95	<0.002	0.0013F	<0.02	0.003F	0.01F	0.0202	12.9	<3	0.01F	0.1	123D1	1.3	175	0.0003F
		14-Apr-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1510.74	1527.19	5.58	<0.002	0.0027	<0.02	0.002F	<0.05	0.0148	14.6	<3	<0.05	0.11	94.3	1.3	214	0.0013
		12-May-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1510.74	1527.19	4.81	<0.002	0.0027	0.003F	<0.01	<0.05	0.0099	13.7	<3	<0.05	0.09	66.7	1.3	241	0.0002F
		9-Jun-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1510.74	1527.19	6.48D1	<0.002	0.0044	<0.02	<0.02D1	<0.1D1	0.0085	20	<3	0.02FD1	0.1	59.8	1.8	304	0.0003F
		7-Jul-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1510.74	1527.19	6.45	<0.002	0.0039	<0.02	0.006F	0.03F	0.0067	23.7	<3	0.01F	0.11	58.2	1.8	326	0.0002F
		4-Aug-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1510.74	1527.19	4.8	<0.002	0.0015F	<0.02	<0.01	0.01F	0.0042	19.4	<3	0.04F	0.1	47.6	1.8	285	0.0004F
		1-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 44	8-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1510.74	1527.19	3.35	<0.002	0.0017F	<0.02	<0.01	0.02F	0.0027	15.4	<30D1	<0.05	0.08	34.2	2FD1	216	0.0001F
		29-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1510.74	1527.19	1.33D1	<0.002	0.0007F	<0.03D1	<0.02D1	<0.1D1	0.001	7.4	<3	<0.1D1	0.05	16.3	0.6	133	0.0001F
		27-Oct-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1510.74	1527.19	1.3	<0.002	0.0011F	<0.02	<0.01	<0.05	0.0011	7.3	<3	<0.05	0.05	17.3	0.6	164	0.0001F
		24-Nov-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 45	26-Aug-08	FD	1510.74	1527.19	3.83	0.0006F	0.0018	0.078	0.02	0.02F	0.0291	41.2	3F	<0.05	0.87	29	2FD1	3.08	0.0003F
		2-Sep-08	FD	1510.74	1527.19	7.27M3	<0.002	0.001	0.014F	0.027	0.02F	0.0278	39.7	2F	<0.05	0.97	74.9M3	4.5D1	1.57	0.0004F
		9-Sep-08	FD	1510.74	1527.19	6.97	0.0005	<0.001	0.006	0.032	<0.05	0.0254	32.9	<5	<0.1D2	0.75	89.8D2	5D2	1.83D2	0.0002
		16-Sep-08	FD	1510.74	1527.19	4.21	<0.002	<0.001	<0.02	0.023	<0.05	0.0151	11.3	<5	<0.05	0.35	72.1	2D1	2.6	<0.0005
		23-Sep-08	FD	1510.74	1527.19	4.46	<0.002	0.0008	<0.02	0.022	<0.05	0.0179	11.1	<5	<0.05	0.27	73.1	2D2	3.13	0.0002
		30-Sep-08	FD	1510.74	1527.19	4.73	<0.002	0.0009	<0.02	0.022	<0.05	0.023	8.8	<5	<0.05	0.25	81.3	<10D1	4.11	0.0002
		7-Oct-08	FD	1510.74	1527.19	4.21	<0.002	<0.001	<0.02	0.018	<0.05	0.0214B7	5.8	<5	<0.05	0.17	74.4	<10D1	4.04	0.0001F
		14-Oct-08	FD	1510.74	1527.19	4.14	<0.002	<0.001	<0.02	0.018	<0.05	0.0199	5.5	<5	<0.05	0.15	78.7	<10D1	5.04	0.0002F
		21-Oct-08	FD	1510.74	1527.19	3.32	<0.002	0.0006F	<0.02	0.01	<0.05	0.0189	3.9	<5	<0.05	0.09	69.2	<10D1	6.31	<0.0005
		28-Oct-08	FD	1510.74	1527.19	2.76	<0.002	<0.002	<0.02	0.009F	<0.05	0.0155	3.2	<5	<0.05	0.08	64.7	<10D2	5.59	0.0003F
		4-Nov-08	FD	1510.74	1527.19	3.67	<0.002	0.0006F	<0.02	0.011	<0.05	0.022	4.2	<5	<0.05	0.08	81.7	<10D1	8.44	<0.0005
		11-Nov-08	FD	1510.74	1527.19	3.08	<0.002	<0.002	<0.02	0.009F	<0.05	0.019	3.4	<5	<0.05	0.07	73.3	<10D2	7.28	<0.0005
		18-Nov-08	FD	1510.74	1527.19	2.76	<0.002	0.0006F	<0.02	0.007F	<0.05	0.017	3.2	<5	<0.05	0.06	75.1	<10D2V1	8.15	0.0002F
		25-Nov-08	FD	1510.74	1527.19	2.15	<0.002	<0.002	<0.02	0.006F	<0.05	0.0137	2.7	<5	<0.05	0.05	60.8B3	0.5	7.83	<0.0005
		2-Dec-08	FD	1510.74	1527.19	2.01	<0.002	<0.002	<0.02	0.003F	<0.05	0.0135	2.6	<5	<0.05	0.04F	59	0.5	9.49	0.0002F
		9-Dec-08	FD	1510.74	1527.19	1.63	<0.002	<0.002	<0.02	0.004F	<0.05	0.0099	2	<5	<0.05	0.03F	45.6	<10D1	7.04	0.0001F
		16-Dec-08	FD	1510.74	1527.19	1.24D1	<0.002	<0.002	<0.02	<0.01	<0.05	0.0088	1.9	<5	<0.1D1	0.03F	37.9D1	<10D1	6.78	0.0001F
		23-Dec-08	FD	1510.74	1527.19	1.81	--	<0.002	<0.02	<0.01	--	0.0093	2.2	<5	--	0.02F	49	4FD1	7.85M3	<0.0005
		30-Dec-08	FD	1510.74	1527.19	1.93	--	0.0005F	<0.02	0.003F	--	0.0101	2.7	<5	--	0.04F	58	<10D1	10.2	0.001

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 45	6-Jan-09	FD	1510.74	1527.19	1.87	--	<0.002	0.004F	0.002F	--	0.0101	2.5	<5	--	0.03F	55.8	<10D1	9.36	0.0003F
		13-Jan-09	FD	1510.74	1527.19	1.44	<0.002	<0.002	<0.02	0.002F	<0.05	0.008	2	<5	<0.05	0.02F	41.3	<10D1	8.4	0.0001F
		20-Jan-09	FD	1510.74	1527.19	2.14	--	<0.002	<0.02	<0.01	--	0.0098	2.6	1F	--	0.03F	54.4	<10D1	11.4	<0.0005
		27-Jan-09	FD	1510.74	1527.19	1.53	--	<0.002	<0.02	<0.01	--	0.0072	2	<5	--	0.02F	40	<10D1	9.31	<0.0005
		3-Feb-09	FD	1510.74	1527.19	3.22	--	0.0005F	<0.02	0.002F	--	0.0133	4.1	<5	--	0.04F	73.4	<10D1	17.6	<0.0005
		10-Feb-09	FD	1510.74	1527.19	1.64	<0.002	0.0006F	<0.02	0.002F	<0.05	0.0081	2.4	<5H3	<0.05	0.03F	43D2	<10D2H3	12.2	<0.0005
		17-Feb-09	FD	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 46	26-Aug-08	FD	1510.74	1527.19	1.65	0.0004F	0.001	0.072	0.008F	0.02F	0.0142	20.9	2	<0.05	0.4	13.6	1.3	1.29	0.0009
		2-Sep-08	FD	1510.74	1527.19	2.71	<0.002	0.0006F	0.007F	0.011	0.01F	0.0127	16.6	<5	<0.05	0.4	30.4	2FD1	0.61	<0.0005
		9-Sep-08	FD	1510.74	1527.19	3.02	<0.002	<0.001	0.005	0.013	<0.05	0.0111	11.8	<5	<0.05	0.31	41.8	1.7D2	0.83	0.0004
		30-Sep-08	FD	1510.74	1527.19	2.49	<0.002	<0.001	<0.02	0.009	<0.05	0.0129	4.5	<5	<0.05	0.11	42.8	2D1	2.33	0.0003
		7-Oct-08	FD	1510.74	1527.19	2.38	<0.002	<0.001	<0.02	0.008F	<0.05	0.0127B7	3.3	<5	<0.05	0.08	42.2	<5D1	2.81	0.0004F
		14-Oct-08	FD	1510.74	1527.19	1.39	<0.002	<0.001	<0.02	0.006F	0.01F	0.0071	2.1	<5	<0.05	0.06	28.6	<5D1	2.5	0.0003F
		21-Oct-08	FD	1510.74	1527.19	1.67	<0.002	0.0005F	<0.02	0.003F	<0.05	0.0079	2	<5	<0.05	0.04F	31.6	<5D1	2.58	0.0002F
		28-Oct-08	FD	1510.74	1527.19	0.88	<0.002	<0.002	<0.02	0.004F	<0.05	0.0047	1.3	<5	<0.05	0.04F	20.2	<5D2	2.25	<0.0005
		4-Nov-08	FD	1510.74	1527.19	1.15	<0.002	<0.002	<0.02	0.004F	<0.05	0.0054	1.3	<5	<0.05	0.03F	22.7	<5D1	2.53	0.0002F
		11-Nov-08	FD	1510.74	1527.19	1.52	<0.002	<0.002	<0.02	0.005F	<0.05	0.0075	1.7	<5	<0.05	0.04F	31.9	<5D2	3.37	<0.0005
		18-Nov-08	FD	1510.74	1527.19	0.96	<0.002	<0.002	<0.02	0.003F	<0.05	0.0052	1.3	<5	<0.05	0.03F	22.7	<5D2V1	3.07	0.0002F
		25-Nov-08	FD	1510.74	1527.19	0.69	<0.002	<0.002	<0.02	<0.01	<0.05	0.0035	1.1	<5	<0.05	0.02F	17.8B3	0.2F	2.64	0.0001F
		2-Dec-08	FD	1510.74	1527.19	0.57	<0.002	<0.002	<0.02	<0.01	<0.05	0.0029	0.6F	<5	<0.05	0.01F	14.7	0.1F	2.37	0.0002F
		9-Dec-08	FD	1510.74	1527.19	0.5	<0.002	<0.002	<0.02	<0.01	<0.05	0.0024	0.6F	<5	<0.05	<0.05	13.3	<5D1M2	2.45	<0.0005
		16-Dec-08	FD	1510.74	1527.19	0.73	<0.002	<0.002	<0.02	<0.01	<0.05	0.0029	0.7F	<5	<0.05	0.03F	17.3M3	<5D1	2.15	<0.0005
		23-Dec-08	FD	1510.74	1527.19	0.6	--	<0.002	<0.02	<0.01	--	0.0027	0.7F	<5	--	0.02F	15.4	<5D1	2.08	0.0001F
		30-Dec-08	FD	1510.74	1527.19	0.51	--	<0.002	<0.02M1	<0.01	--	0.0022	0.7FM1	<5	--	0.02FM1	14.2M3	<5D1	2.42	<0.0005
		6-Jan-09	FD	1510.74	1527.19	0.4	--	<0.002	0.005F	<0.01	--	0.0017	0.4F	<5M1	--	<0.05	11.2M3	<5D1	2.06	<0.0005
		13-Jan-09	FD	1510.74	1527.19	0.38	<0.002	<0.002	<0.02	<0.01	<0.05	0.0016	0.5F	<5M1	<0.05	0.01F	9.81M3	<5D1	2.08	<0.0005
		20-Jan-09	FD	1510.74	1527.19	0.38	--	<0.002	<0.02	<0.01	--	0.0014	0.5F	<5	--	<0.05	8.97M3	<5D1	2.27	<0.0005
		27-Jan-09	FD	1510.74	1527.19	0.44	--	<0.002	<0.02	<0.01	--	0.0016	0.6F	<5	--	0.01F	10.6M3	<5D1	2.48M2	<0.0005
		3-Feb-09	FD	1510.74	1527.19	0.47	--	<0.002	<0.02	<0.01	--	0.0016	0.6F	<5	--	0.01F	11.5M3	<5D1	2.43	<0.0005
		10-Feb-09	FD	1510.74	1527.19	0.77	<0.002	0.0005F	<0.02	<0.01	<0.05	0.0028	0.8F	<5H3	<0.05	0.02F	16.4M3	<5D1H3	2.86	<0.0005
		23-Sep-08	FD	1510.74	1527.19	3.45	<0.002	<0.001	<0.02	0.014	<0.05	0.0137	8.1	<5	<0.05	0.2	53.8	1.3D2	2.08	0.0004

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 46	17-Feb-09	FD	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 47	26-Aug-08	N	1597.32	1599.88	428	0.0017F	0.0009F	0.08D1	0.04FD1	0.09FD1	0.0084	345	21	0.75	3.28	240D1	193D1	347	0.0048
		2-Sep-08	N	1597.32	1599.88	27.6	<0.002	<0.001	0.025	<0.01	0.01F	0.0014	43.7	<5	<0.05	0.09	13.7	32D1	32.9	0.0006
		9-Sep-08	N	1597.32	1599.88	18.4	0.0004	<0.001	0.023	0.002	<0.05	0.0014	27.3	<5	<0.05	0.07	14.7	17.2	22.5	0.0002
		16-Sep-08	N	1597.32	1599.88	54.9	<0.002	0.001	0.015	0.006	<0.05	0.0035	71.3	<5	0.02	0.16	53	56D1	97.4	0.0004
		23-Sep-08	N	1597.32	1599.88	20.2	<0.002	0.0006	0.01	0.003	<0.05	0.0018	28.6	<5	<0.05	0.08	20.3	15.9D2	63	0.0006
		30-Sep-08	N	1597.32	1599.88	14.6	<0.002	<0.001	0.004	<0.01	<0.05	0.0011	22.6	<5	<0.05	0.04	17.7	31D1	38.3	0.0004
		7-Oct-08	N	1597.32	1599.88	97.4D1	<0.002	0.0028	0.006F	<0.05D1	0.02F	0.0151B7	100	<5	0.19	0.73	309D1	70.2D1	160	0.0002F
		14-Oct-08	N	1597.32	1599.88	13.3	<0.002	<0.001	0.006F	<0.01	0.01F	0.0015	17.6	<5	<0.05	0.07	44.9	11.4D1	47.3	0.0002F
		21-Oct-08	N	1597.32	1599.88	10.3	<0.002	0.0009F	<0.02	<0.01	<0.05	0.0018	11.3	<5	0.04F	0.06	41.7	5.8D1	48.8	0.0002F
		28-Oct-08	N	1597.32	1599.88	24.6	<0.002	0.0007F	0.007F	0.003F	<0.05	0.0026	29.8	<5	0.06	0.1	22.9	19.6D2	134	0.0002F
		4-Nov-08	N	1597.32	1599.88	12.7	<0.002	0.0011F	0.006F	<0.01	<0.05	0.002	15.6	<5	0.05	0.06	37	9.8D2	58.7	0.0003F
	TEST 47S	11-Nov-08	N	1597.32	1599.88	15.5	<0.002	<0.04D2	0.009F	0.003F	<0.05	0.0031	16.4	<5	0.04F	0.12	87.1	11.8D2	53	<0.0005
		18-Nov-08	N	1597.32	1599.88	4.74	<0.002	<0.002	<0.02	<0.01	<0.05	0.001	4.9	<5	<0.05	0.03F	14.1	3.8D2V1	24.6	<0.0005
		25-Nov-08	N	1597.32	1599.88	3.8	<0.002	<0.002	0.003F	<0.01	<0.05	0.0007	3.9	<5	0.01F	0.03F	9.1B3	2.6	19.4	0.0002F
		2-Dec-08	N	1597.32	1599.88	4.12	<0.002	<0.002	<0.02	<0.01	<0.05	0.0008	4.1	<5	<0.05	0.02F	7.66	2.8	21.1	<0.0005
		9-Dec-08	N	1597.32	1599.88	4.72	<0.002	<0.002	<0.02	<0.01	<0.05	0.0008	4.1	<5	0.02F	0.02F	9.94	3.6D1	22.7	<0.0005
		16-Dec-08	N	1597.32	1599.88	2.54D1	<0.002	<0.002	0.007F	<0.01	<0.05	0.0008	4	<5	<0.1D1	0.03F	5.55D1	2.9	24.4	0.0001F
		23-Dec-08	N	1597.32	1599.88	4.88	--	<0.002	<0.02	<0.01	--	0.0007	3.4	<5M1	--	0.03F	11.6M3	1.4FD1M2	25.4M3	<0.0005
		30-Dec-08	N	1597.32	1599.88	5.32	--	<0.002N1	0.005F	<0.01	--	0.0008	4.5	<5	--	0.04F	12.2	2.9	32.4	<0.0005
		6-Jan-09	N	1597.32	1599.88	4.86	--	<0.002	0.006F	<0.01	--	0.0007	3.7	<5	--	0.01F	11.3	2.8	30.2	<0.0005
		13-Jan-09	N	1597.32	1599.88	4.1	<0.002	<0.002	<0.02	<0.01	<0.05	0.0006	2.8	<5	0.04F	0.02F	8.95	2.2	23.8	<0.0005
		20-Jan-09	N	1597.32	1599.88	4.6	--	<0.002	<0.02	<0.01	--	0.0006	3.4	1F	--	0.03F	10.6	2.6FD1	28.9	<0.0005
		27-Jan-09	N	1597.32	1599.88	5.06	--	<0.002N1	<0.02	<0.01	--	0.0007	3.3	<5	--	0.02F	10.9	2.6	32.6	<0.0005
		3-Feb-09	N	1597.32	1599.88	5.22	--	<0.002	<0.02	<0.01	--	0.0007	3.4	<5	--	0.03F	12.2	2.7FD1	35.7	<0.0005
		10-Feb-09	N	1597.32	1599.88	5.22	<0.002	0.0005F	<0.02	<0.01	<0.05	0.0008	3.3	<5H3	0.06	0.03F	12.4	2.5FD1H3	36.5	<0.0005
		17-Feb-09	N	1597.32	1599.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 48	26-Aug-08	N	1634.46	1637.47	89.5	0.0009F	0.0018	0.13D1	0.01FD1	0.1FD1	0.0295	225	6	<0.05	6.94	255D1	75D1M2	11.7	0.0053
		2-Sep-08	N	1634.46	1637.47	28.8	<0.002	<0.001	0.043	0.007F	0.02F	0.0024	46.3	<5	<0.05	0.33	41.4	36D1	1.35	0.0007
		9-Sep-08	N	1634.46	1637.47	4.76	<0.002	<0.001	0.016	<0.01	<0.05	0.0011	7.8	<5	<0.05V1	0.08	17.5	4.6	0.48	0.0005
		16-Sep-08	N	1634.46	1637.47	11	<0.002	<0.001	0.012	0.003	<0.05	0.0018	16.6	<5	<0.05	0.11	24.2	10.3	3.39	0.0004

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 48	23-Sep-08	N	1634.46	1637.47	8.49	<0.002	<0.001	0.014	0.003	<0.05	0.0018	13.7	<5	<0.05	0.09	31	7	3.08	0.0006
		30-Sep-08	N	1634.46	1637.47	25.5	<0.002	0.0006	0.006	0.004	<0.1D1	0.0058	45	<5	<0.05	0.42	118D1	25D1	7.63	0.0006
		7-Oct-08	N	1634.46	1637.47	23.9D1	<0.002	<0.001	0.005F	0.004FD1	<0.05	0.0095B7	31.3	<5	<0.05	0.46	213D1	37D1	6.62	0.0003F
		14-Oct-08	N	1634.46	1637.47	20.9D1	<0.002	<0.001	<0.03D1	<0.02D1	<0.05	0.0062	27.1	<5	<0.05	0.4	134D1	18D1	3.82	0.0002F
		21-Oct-08	N	1634.46	1637.47	7.31	<0.002	<0.002	<0.02	<0.01	<0.05	0.0022	8	<5	<0.05	0.11	40.9	5FD1	1.53	0.0001F
		28-Oct-08	N	1634.46	1637.47	17.8D2	<0.002	<0.002	<0.03D2	0.005F	<0.05	0.0046	18.9	<5	<0.05	0.26	98.4D2	15D2	6.66	0.0002F
		4-Nov-08	N	1634.46	1637.47	15D2	<0.002	0.0006F	0.004F	0.005F	<0.1D2	0.0075	11.4	<5	<0.1D2	0.22	182D2	11D1	6.26	0.0009
	TEST 48S	11-Nov-08	N	1634.46	1637.47	9.8D2	<0.002	<0.002N1	0.007F	0.005F	<0.3D2	0.0096	9.3	<5	<0.05	0.23	236D2	8FD2	3.93	<0.0005
		18-Nov-08	N	1634.46	1637.47	2.09	<0.002	<0.002	0.008F	<0.01	<0.05	0.0004F	3.2	<5	<0.05	0.02F	22	2FD2V1	0.04F	0.0139
		25-Nov-08	N	1634.46	1637.47	2.65	<0.002	<0.002	<0.02	<0.01	<0.05	0.0023	2.2	<5	<0.05	0.04F	39.9B3M3	1.4	1.45	0.0002F
		2-Dec-08	N	1634.46	1637.47	2.73	<0.002	<0.002	<0.02	<0.01	<0.05	0.0029	2.1	<5	<0.05	0.04F	44.4	1.5	1.02	<0.0005
		9-Dec-08	N	1634.46	1637.47	2.8	<0.002	<0.002	<0.02	<0.01	<0.05	0.0027	2.1	<5	<0.05	0.04F	42.3	<10D1	1.33	<0.0005
		16-Dec-08	N	1634.46	1637.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1634.46	1637.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 49	26-Aug-08	N	1739.63	1742.63	100	0.0004F	0.0014	0.115D1	<0.02D1	0.09FD1	0.0214	230	23	<0.05	0.7	133D1	120D1	44	0.0105
		2-Sep-08	N	1739.63	1742.63	17.4	<0.002	<0.001	0.038	<0.01	0.03F	0.0008	42.9	1F	<0.05	0.05	18.6	26D1M2	44.9	0.0058
		9-Sep-08	N	1739.63	1742.63	5.48	<0.002	<0.001	0.021	<0.01	<0.05	0.0002	10	<5	<0.05V1	0.02	6.61	10.3	7.39	0.0036
		16-Sep-08	N	1739.63	1742.63	16.1	<0.002	<0.001	0.034	<0.01	<0.05	0.002	31.4	2	<0.05	0.09	51.1	24D1	0.46	0.0169
		23-Sep-08	N	1739.63	1742.63	10.5	<0.002	<0.001	0.037	<0.01	<0.05	0.0009	17.9	<5	<0.05	0.04	28.1	13.8	0.16	0.0077
		30-Sep-08	N	1739.63	1742.63	20.5	<0.002	<0.001	0.046	<0.01	<0.05	0.0031	40	<5	<0.05	0.12	97.3	27D1	0.33	0.031
		7-Oct-08	N	1739.63	1742.63	28.7D1	<0.002	<0.001	0.037	0.02<D1	<0.05	0.0048B7	52.5	1F	<0.05	0.21	213D1	39D1M2	0.62	0.0391B7
		14-Oct-08	N	1739.63	1742.63	11.3	<0.002	<0.001	0.03	<0.01	0.01F	0.0014	16.5	<5	<0.05	0.06	54.9	12D1	0.2	0.0175
		21-Oct-08	N	1739.63	1742.63	6.76	<0.002	<0.002	0.019F	<0.01	<0.05	0.0009	8.3	<5	<0.05	0.03F	32.5	9D1M2	0.2	0.0203
		28-Oct-08	N	1739.63	1742.63	9.26	<0.002	<0.002	0.033	<0.01	<0.05	0.0014	13.1	2F	<0.05	0.06	60.8	11D2	0.35	0.0262
		4-Nov-08	N	1739.63	1742.63	35.3D2	<0.002	0.0007F	0.062	<0.01	<0.3D2	0.0082	51.1	1F	<0.3D2	0.35	364D2	34D1	2.14	0.0999
	TEST 49S	11-Nov-08	N	1739.63	1742.63	6.94	<0.04D2	<0.04D2	0.031	<0.01	<0.05	<0.01D2	11.1	<5	<0.05	0.07	85.1	9D2	0.11	0.04D2
		18-Nov-08	N	1739.63	1742.63	3.41	<0.002	<0.002	0.004F	<0.01	<0.05	0.0031	2.7	<5	<0.05	0.06	59.9	2FD2V1	2.17	0.0015
		25-Nov-08	N	1739.63	1742.63	1.43	<0.002	<0.002	0.005F	<0.01	<0.05	0.0002F	2.1	<5	<0.05	0.02F	15.9B3	1.7	0.06	0.0085
		2-Dec-08	N	1739.63	1742.63	1.41	<0.002	<0.002	<0.02	<0.01	<0.05	0.0003F	2	<5	<0.05	<0.05	18.2	1.8	0.03F	0.0075
		9-Dec-08	N	1739.63	1742.63	1.42	<0.002	<0.002	<0.02	<0.01	<0.05	0.0002F	1.6	<5	<0.05	<0.05	18.6	<10D1	0.05	0.0083
		16-Dec-08	N	1739.63	1742.63	1.96	<0.002	<0.002	0.006F	<0.01	<0.05	0.0003F	2.4	<5	<0.05	0.02F	23.5	2FD1	0.08	0.0096

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 49S	23-Dec-08	N	1739.63	1742.63	2.27	--	<0.002	<0.02	<0.01	--	0.0004F	2.5	<5	--	0.02F	24.7	2FD1	0.11	0.0108
		30-Dec-08	N	1739.63	1742.63	1.78	--	<0.002	0.005F	<0.01	--	0.0003F	2.3	<5	--	0.01F	21.6	28D1	0.12	0.0086
		6-Jan-09	N	1739.63	1742.63	1.92	--	<0.002	0.006F	<0.01	--	0.0003F	2.4	<5	--	0.01F	22.8	3FD1	0.13	0.0079
		13-Jan-09	N	1739.63	1742.63	2.15	<0.002	<0.002	<0.02	<0.01	<0.05	0.0004F	2.3	<5	<0.05	0.02F	22.1	3FD1	0.14	0.0077
		20-Jan-09	N	1739.63	1742.63	2.12	--	<0.002	<0.02	<0.01	--	0.0004F	2.4	1F	--	0.02F	24.1	2FD1	0.16	0.0062
		27-Jan-09	N	1739.63	1742.63	1.84	--	<0.002	<0.02	<0.01	--	0.0004F	2.1	<5	--	0.02F	22.2	2FD1	0.17	0.0056B7
		3-Feb-09	N	1739.63	1742.63	2.62	--	<0.002	<0.02	<0.01	--	0.0005	3	<5	--	0.02F	30	2FD1	0.21	0.0057
		10-Feb-09	N	1739.63	1742.63	2.05	<0.002	<0.002	<0.02	<0.01	<0.05	0.0005	2.2	<5H3	<0.05	0.03F	28.2	2FD2H3	0.22	0.0051
		17-Feb-09	N	1739.63	1742.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 50	26-Aug-08	N	1829.95	1832.48	101M3	<0.002	0.0021	0.09	0.065	0.04F	0.0078	410M3	7	<0.05	0.81	2.16M3	93.2D1	92.6M3	0.0072
		2-Sep-08	N	1829.95	1832.48	81.6	<0.002	0.0034	0.047	0.071	0.01F	0.0725	212	<5	<0.05	0.39	79.2	115D1	3.57	0.0025
		9-Sep-08	N	1829.95	1832.48	69.1D2	<0.002	0.0029	0.03D2	0.078D2	<0.1D2	0.073	152	<5	<0.05V1	0.38D2	176D2	103D2	2.18	0.0029
		16-Sep-08	N	1829.95	1832.48	57.2	<0.002	0.0031	0.016	0.063	<0.05	0.0488	112	<5	<0.05	0.27	158D1	83D1	2.89	0.0028
		23-Sep-08	N	1829.95	1832.48	77.4D2	<0.002	0.005D2	0.006	0.09D2	<0.05	0.066	136	<5	<0.05	0.3	276D2	111D2	5	0.0018
		30-Sep-08	N	1829.95	1832.48	55.1	<0.002	0.0042	0.004	0.048	<0.1D1	0.0493	106	<5	<0.05	0.2	196D1	83D1	4.72	0.0019
		7-Oct-08	N	1829.95	1832.48	44.6D1	<0.002	0.0029	0.009F	0.03D1	<0.05	0.0322B7	91.4	<5	<0.05	0.16	196D1	71D1	3.38	0.0013FD1
		14-Oct-08	N	1829.95	1832.48	34.9D1	<0.002	0.0018	0.006FD1	0.02D1	<0.05	0.0206	72.5	<5	<0.05	0.12	161D1	38D1	2.81	0.0016
		21-Oct-08	N	1829.95	1832.48	36.3D1	<0.002	0.0024	0.004F	0.014FD1	<0.05	0.0156	59.8	<5	<0.05	0.07	113D1	41D1	3.55	0.0009
		28-Oct-08	N	1829.95	1832.48	20.8D2	<0.002	0.0017F	0.009FD2	0.01	<0.05	0.0132	52.8	<5	<0.05	0.08	112D2	30D2	1.81	0.0004F
		4-Nov-08	N	1829.95	1832.48	30.3	<0.002	0.0017F	0.006F	0.015	<0.05	0.0098	43.6	<5	<0.05	0.05	63.4	47D1M2	2.58	0.0006
		11-Nov-08	N	1829.95	1832.48	25.6D2	<0.002	0.0017F	0.006F	0.013	<0.1D2	0.0153	71.3	<5	<0.05	0.1	126D2	43D2	2.71	0.0004F
		18-Nov-08	N	1829.95	1832.48	26	<0.002	0.0029	0.005F	0.011	<0.05	0.0153	67.5	<5	<0.05	0.1	156D2	43D2	2.28	0.0005
		25-Nov-08	N	1829.95	1832.48	28.7	<0.002	<0.01D1	0.006F	0.012	<0.05	0.016D1	68.8	<5	<0.05	0.11	213D1B3	31.3	2.83	<0.003D1
		2-Dec-08	N	1829.95	1832.48	18D1	<0.002	0.002	<0.02	0.005F	<0.1D1	0.0122	52.4	<5	<0.1D1	0.09	167D1	33D2	1.79	0.0004F
		9-Dec-08	N	1829.95	1832.48	19.2	<0.002	0.0023	<0.03D1	0.008FD1	<0.1D1	0.0129	52.1	<5	<0.05	0.1	198D1	25.9	2.19	0.0004F
		16-Dec-08	N	1829.95	1832.48	15.1D1	<0.002	0.002	0.01F	0.006F	<0.05	0.0107	51.6	1F	<0.1D1	0.1	161D1	29D1	2.14	0.0004F
		23-Dec-08	N	1829.95	1832.48	19.6D1	--	0.0024	<0.08D1	<0.05D2	--	0.01	43.7	<5	--	0.09	207D1	25D1	1.86	0.0002F
		30-Dec-08	N	1829.95	1832.48	18.4	--	0.0019F	0.007F	<0.05D1	--	0.0093	49.4	<5	--	0.09	215D1	57D1	1.91	0.0003F
		6-Jan-09	N	1829.95	1832.48	15.8	--	0.0012F	0.007F	0.005FD1	--	0.0093	39.5	<5	--	0.07	191D1	28D1	1.78	0.0003F
		13-Jan-09	N	1829.95	1832.48	15.4	<0.002	0.0023	<0.02	0.005F	<0.05	0.0098	40.8	<5	<0.05	0.08	211D1B7	27D1	1.84	0.0002F
		20-Jan-09	N	1829.95	1832.48	15.5	--	0.0023	<0.02	0.005F	--	0.0093	41.9	2F	--	0.08	247D1	26D1	2.33	0.0002F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 50	27-Jan-09	N	1829.95	1832.48	16.5	--	0.0016F	<0.02	0.005F	--	0.0078	40	<5	--	0.08	218D1	29D1	2.15	<0.0005
		3-Feb-09	N	1829.95	1832.48	16.5	--	0.0022	<0.02	0.005F	--	0.0075	41.8	<5	--	0.08	224D1	26D1	2.01	0.0001F
		10-Feb-09	N	1829.95	1832.48	16.9	<0.002	0.0032	<0.02	0.006F	<0.05	0.0082	42.1	<5H3	<0.05	0.09	230D2	29D1H3	1.96	0.0001F
		17-Feb-09	N	1829.95	1832.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 51	26-Aug-08	N	1867.87	1844.35	0.13F	<0.002	0.0012	0.151	<0.01	0.03F	<0.0005	116	29	<0.05	<0.05	0.03F	2.8	0.1	<0.0005
		2-Sep-08	N	1867.87	1844.35	0.03F	<0.002	0.0009F	0.036	<0.01	0.02F	<0.0005	124	20	<0.05	<0.05	0.02F	1.6	<0.05	<0.0005
		9-Sep-08	N	1867.87	1844.35	0.05	<0.002	<0.001	0.028	<0.01	0.02	<0.0005	157	19	<0.05V1	0.01	0.03	1.1	<0.05V1	<0.0005
		16-Sep-08	N	1867.87	1844.35	0.06	<0.002	<0.001	0.023	<0.01	0.01	<0.0005	104	5	<0.05	<0.05	0.02	2.5	<0.05	<0.0005
		23-Sep-08	N	1867.87	1844.35	0.03	<0.002	0.0007	0.018	<0.01	0.01	0.0001	170	5	<0.05	<0.05	0.1	1.4	<0.05	<0.0005
		30-Sep-08	N	1867.87	1844.35	<0.2	<0.002	<0.001	0.016	<0.01	<0.05	<0.0005	140	2	<0.05	<0.05	0.04	1.3	<0.05	<0.0005
		7-Oct-08	N	1867.87	1844.35	0.04F	<0.002	<0.001	0.024	<0.01	0.01F	<0.0005	145	1FM1	<0.05	<0.05	0.04F	0.9	<0.05	<0.0005
		14-Oct-08	N	1867.87	1844.35	0.04F	<0.002	<0.001	0.019F	<0.01	0.01F	0.0001F	149	<5M1	<0.05	<0.05	0.05	0.9	<0.05	<0.0005
		21-Oct-08	N	1867.87	1844.35	0.04F	<0.002	0.0006F	0.011F	<0.01	<0.05	0.0001F	124	<5	<0.05	<0.05	0.02F	0.7	<0.05	<0.0005
		28-Oct-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.021	<0.01	0.01F	0.0002F	200M2	<5	<0.05	<0.05	0.03F	1.1	<0.05	<0.0005
		4-Nov-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.021	<0.01	<0.05	0.0002F	191M2	<5	<0.05	<0.05	0.02F	1.4	<0.05	<0.0005
		11-Nov-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.012F	<0.01	<0.05	<0.0005	104	<5M1	<0.05	<0.05	0.04F	1	<0.05	<0.0005
		18-Nov-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.014F	<0.01	<0.05	0.0002F	124	<5	<0.05	<0.05	0.04F	1.1V1	<0.05	<0.0005
		25-Nov-08	N	1867.87	1844.35	0.06FM2	<0.002	<0.002	0.015F	<0.01	<0.05	0.0002F	136	<5	<0.05	<0.05	<0.05M3	13D1	<0.05	<0.0005
		2-Dec-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.011F	<0.01	<0.05	0.0003F	138	<5M1	<0.05	<0.05	0.04F	1.2	<0.05	<0.0005
		9-Dec-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.013F	<0.01	<0.05	0.0002F	140	<5	<0.05	<0.05	0.06	1.5	<0.05	<0.0005
		16-Dec-08	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.019F	<0.01	<0.05	0.0001F	92.4	1F	<0.05	<0.05	0.05	1	<0.05	<0.0005
		23-Dec-08	N	1867.87	1844.35	<0.2	--	<0.002	0.006F	<0.01	--	0.0002F	109	<5	--	<0.05	0.06	1	<0.05	0.0001F
		30-Dec-08	N	1867.87	1844.35	<0.2	--	<0.002	0.015F	<0.01	--	0.0002F	122	<5	--	<0.05	0.12	1.1	<0.05	<0.0005
		6-Jan-09	N	1867.87	1844.35	0.04F	--	<0.002	0.013F	<0.01	--	0.0003F	118	<5	--	<0.05	0.04F	1.1	<0.05	<0.0005
		13-Jan-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	0.0002F	88.2	<5	0.01F	<0.05	0.03F	0.9	<0.05	<0.0005
		20-Jan-09	N	1867.87	1844.35	<0.2	--	<0.002	0.012F	<0.01	--	0.0003F	127	1F	--	<0.05	0.03F	1	<0.05	<0.0005
		27-Jan-09	N	1867.87	1844.35	<0.2	--	<0.002	0.009F	<0.01	--	0.0002F	92.3	1F	--	<0.05	0.03F	0.6	<0.05	<0.0005
		3-Feb-09	N	1867.87	1844.35	<0.2	--	<0.002	0.013F	<0.01	--	0.0003F	138	<5	--	<0.05	0.09	1.1	<0.05	<0.0005
		10-Feb-09	N	1867.87	1844.35	0.06F	--	<0.002	0.009F	<0.01	--	0.0001F	85.1	<5	--	<0.05	0.04F	1	<0.05	<0.0005
		17-Feb-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 51	3-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1867.87	1844.35	<0.2	<0.002V1	<0.002	0.018F	<0.01	<0.05	0.0002F	127	<3	<0.05	<0.05	0.02F	1.4	<0.05	<0.0005
		17-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.012F	<0.01	<0.05	0.0003F	103	<3	<0.05	<0.05	0.02F	1.3	<0.05	<0.0005
		14-Apr-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.012F	<0.01	<0.05	0.0004F	104	<3	<0.05	<0.05	0.02F	1.2	<0.05	<0.0005
		12-May-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.016F	<0.01	<0.05	0.0003F	114	<3	<0.05	<0.05	<0.05	1.1	<0.05	<0.0005
		9-Jun-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	0.0004F	98.5	<3	<0.05	0.04F	0.02F	1	<0.05	0.0002F
		7-Jul-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.013F	<0.01	<0.05	0.0004F	117	<3	<0.05	<0.05	0.02F	1	<0.05	<0.0005
		4-Aug-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1867.87	1844.35	<0.2	<0.002	<0.002	0.015F	<0.01	0.02F	0.0006	165	<3	<0.05	0.01F	0.01F	1.3	0.04F	0.0001F
	TEST 52	26-Aug-08	N	1899	1901.88	0.07F	<0.002	0.0037	0.093	<0.01	0.03F	<0.0005	532	23	<0.05	<0.05	0.04F	3.1	<0.05	<0.0005
		2-Sep-08	N	1899	1901.88	0.03F	0.0012F	<0.001	0.033	<0.01	<0.05	<0.0005	374	49	<0.05	<0.05	0.25	6.1	<0.05	<0.0005
		9-Sep-08	N	1899	1901.88	<0.2	0.0018	<0.001	0.05	<0.01	<0.05	<0.0005	158	56	<0.05V1	0.01	0.22	5.5	<0.05V1	0.0001
		16-Sep-08	N	1899	1901.88	0.04	<0.002	<0.001	0.037	<0.01	<0.05	0.0001	277	70D1	<0.05	<0.05	0.07	2	<0.05	<0.0005
		23-Sep-08	N	1899	1901.88	<0.2	<0.002	0.0007	0.029	<0.01	<0.05	<0.0005	198	59	<0.05	<0.05	0.05	1.6	<0.05	<0.0005

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 52	30-Sep-08	N	1899	1901.88	<0.2	<0.002	0.0009	0.034	<0.01	<0.05	0.0001	276	42	<0.05	<0.05	0.18	2.5	<0.05	<0.0005
		7-Oct-08	N	1899	1901.88	<0.2	<0.002	<0.001	0.046	<0.01	<0.05	<0.0005	186	35	<0.05	<0.05	0.1	3	<0.05	<0.0005
		14-Oct-08	N	1899	1901.88	<0.2	<0.002	<0.001	0.054	<0.01	<0.05	0.0001F	218	35	<0.05	0.01F	0.17	3.4	<0.05	<0.0005
		21-Oct-08	N	1899	1901.88	0.05F	<0.002	0.0005F	0.066	<0.01	<0.05	0.0003F	332	35	<0.05	<0.05	0.19	3	<0.05	0.0001F
		28-Oct-08	N	1899	1901.88	<0.2	<0.002	<0.002	0.07	<0.01	<0.05	0.0005	438	29	<0.05	0.02F	0.39	3.2	<0.05	0.0004F
		4-Nov-08	N	1899	1901.88	<0.2	<0.002	<0.002	0.043	<0.01	<0.05	0.0002F	225	14	<0.05	<0.05	0.24	3.4	<0.05	0.0001F
	TEST 52S	11-Nov-08	N	1899	1901.88	<0.2	<0.002	<0.002	0.037	<0.01	<0.05	0.0001F	109	15	<0.05	<0.05	0.1	1.9	<0.05	<0.0005
		18-Nov-08	N	1899	1901.88	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	<0.0005	50.5	2F	<0.05	<0.05	0.05	0.8V1	<0.05	<0.0005
		25-Nov-08	N	1899	1901.88	<0.2	<0.002	<0.002	0.009F	<0.01	<0.05	0.0002F	54	<5	<0.05	<0.05	0.07	0.8	<0.05	<0.0005
		2-Dec-08	N	1899	1901.88	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	49.6	1F	<0.05	<0.05	0.05	0.7	<0.05	<0.0005
		9-Dec-08	N	1899	1901.88	<0.2	<0.002	<0.002	0.005F	<0.01	<0.05	<0.0005	44.7	<5	<0.05	<0.05	0.05	0.6	<0.05	<0.0005
		16-Dec-08	N	1899	1901.88	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	45.2	1F	<0.05	0.01F	0.04F	0.4F	<0.05	<0.0005
		23-Dec-08	N	1899	1901.88	0.07FD1	--	<0.002	<0.03D1	<0.02D1	--	<0.0005	40.6	<5	--	<0.05	0.05	0.2F	<0.05	<0.0005
		30-Dec-08	N	1899	1901.88	<0.2	--	<0.002	0.007F	<0.01	--	<0.0005	47.6	<5	--	<0.05	0.06	0.4F	<0.05	<0.0005
		6-Jan-09	N	1899	1901.88	<0.2	--	<0.002	0.006F	<0.01	--	<0.0005	41.2	<5	--	<0.05	0.03F	0.4F	<0.05	<0.0005
		13-Jan-09	N	1899	1901.88	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	36.6	<5	<0.05	<0.05	0.03F	0.4F	<0.05	<0.0005
		20-Jan-09	N	1899	1901.88	<0.2	--	<0.002	0.003F	<0.01	--	<0.0005	57.7	1F	--	<0.05	0.05	0.5	<0.05	<0.0005
		27-Jan-09	N	1899	1901.88	<0.2	--	<0.002	<0.02	<0.01	--	<0.0005	40.5	1F	--	<0.05	0.05	0.4F	<0.05	<0.0005
		3-Feb-09	N	1899	1901.88	<0.2	--	<0.002	0.003F	<0.01	--	<0.0005	44.3	<5	--	<0.05	0.06	0.4F	<0.05	<0.0005
		10-Feb-09	N	1899	1901.88	<0.2	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	35.1	<5H3	<0.05	0.01F	0.08	0.3FH3	<0.05	<0.0005
		17-Feb-09	N	1899	1901.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 53	26-Aug-08	N	1984.74	1987.74	1.6	<0.002	0.0007F	0.055D1	<0.02D1	0.06FD1	0.0044	763D1	13	<0.05	0.75	2	4.9	44.3	0.0032
		2-Sep-08	N	1984.74	1987.74	2.01	<0.002	<0.001	0.029	0.005F	0.02F	0.0049	600	3F	<0.05	0.27	29.5	6D1	2.67	0.0031
		9-Sep-08	N	1984.74	1987.74	0.99D2	0.0006	<0.001	0.026D2	0.006D2	<0.1D2	0.0087	644	7	<0.05V1	0.24D2	158D2	4D2	<0.05V1	0.0069
		16-Sep-08	N	1984.74	1987.74	0.92	<0.002	<0.001	0.024	0.007	<0.05	0.0064	604	5	<0.05	0.1	150D1	4D1	<0.05	0.0099
		23-Sep-08	N	1984.74	1987.74	1.3D2	<0.002	<0.001	0.019	<0.05D2	<0.05	0.0091	602	3	<0.05	0.11	218D2	4D2	<0.05	0.0233
		30-Sep-08	N	1984.74	1987.74	0.94	<0.002	<0.001	0.016	<0.01	<0.05	0.0018	535	<5	<0.05	0.02	62.6	3.5D1	<0.05	0.0129
		7-Oct-08	N	1984.74	1987.74	1.09D1	<0.002	<0.001	0.02	<0.02D1	<0.05	0.0048B7	579	3F	<0.05	0.07	153D1	3FD1	<0.05	0.0225
		14-Oct-08	N	1984.74	1987.74	0.8D1	<0.002	<0.001	0.021FD1	<0.02D1	<0.05	0.0038	598	4F	<0.05	0.05	111D1	4FD1	<0.05	0.0151
		21-Oct-08	N	1984.74	1987.74	0.64	<0.002	<0.002	0.018F	<0.01	<0.05	0.0031	576	4F	<0.05	0.02F	91.7	4FD1	<0.05	0.0134
		28-Oct-08	N	1984.74	1987.74	0.59D2	<0.002	<0.002	0.021FD2	<0.02D2	<0.1D2	0.0053	605D2	2F	<0.1D2	0.05FD2	135D2	5D2	<0.1D2	0.0215

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 53	4-Nov-08	N	1984.74	1987.74	0.64	<0.002	<0.002	0.023	<0.01	<0.05	0.0026	539	1F	<0.05	0.02F	83.2	6D1	<0.05	0.0194
		11-Nov-08	N	1984.74	1987.74	0.45	<0.002	<0.002	0.025	<0.01	<0.05	0.0026	566	2F	<0.05	0.02F	81.4	6D2	<0.05	0.0173
		18-Nov-08	N	1984.74	1987.74	0.52	<0.002	<0.002	0.022	<0.01	<0.05	0.0029	608	1F	<0.05	0.02F	90.8	6D2V1	<0.05	0.0179
		25-Nov-08	N	1984.74	1987.74	0.43	<0.002	<0.002	0.026	<0.01	<0.05	0.001	606	<5	<0.05	0.02F	40.6	4.7M2	<0.05	0.0101
		2-Dec-08	N	1984.74	1987.74	0.35	<0.002	<0.002	0.025	<0.01	<0.05	0.0031	501	3F	<0.05	0.02F	78.2	8D2	<0.05	0.0154
		9-Dec-08	N	1984.74	1987.74	0.35	<0.002	<0.002	0.031	<0.01	<0.05	0.0038	490	2F	<0.05	0.02F	88	7D1	<0.05	0.0195
		16-Dec-08	N	1984.74	1987.74	0.13F	<0.002	<0.002	0.026	<0.01	<0.05	0.0033	434	1F	<0.05	0.02F	79	6D1	<0.05	0.0161
		23-Dec-08	N	1984.74	1987.74	0.45	--	<0.002	0.021	<0.01	--	0.0041	378	<5	--	0.02F	89.6	4FD1	<0.05	0.0181
		30-Dec-08	N	1984.74	1987.74	0.21	--	<0.002	0.027	<0.01	--	0.0027	388	<5	--	0.03F	68.2	4FD1	<0.05	0.0157
		6-Jan-09	N	1984.74	1987.74	0.28	--	<0.002	0.026	<0.01	--	0.0036	298	1F	--	0.02F	76.6	6D1	<0.05	0.0183
		13-Jan-09	N	1984.74	1987.74	0.17F	<0.002	<0.002	0.024	<0.01	<0.05	0.004	228	1F	0.01F	0.02F	64	6D1	<0.05	0.0143
		20-Jan-09	N	1984.74	1987.74	0.15F	--	<0.002	0.025	<0.01	--	0.0035	296	1F	--	0.02F	67.2	6D1	<0.05	0.0156
		27-Jan-09	N	1984.74	1987.74	0.17F	--	<0.002	0.021	<0.01	--	0.0041	305	1F	--	0.02F	75	6D1	<0.05	0.0191B7
		3-Feb-09	N	1984.74	1987.74	0.16F	--	<0.002	0.019F	<0.01	--	0.005	272	<5	--	0.03F	80.3	4FD1	<0.05	0.0215
		10-Feb-09	N	1984.74	1987.74	0.21	0.0012F	<0.002	0.02	<0.01	<0.05	0.0057	265	<5H3	<0.05	0.03F	83.6	<5D2H3	<0.05	0.0217
		17-Feb-09	N	1984.74	1987.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 54	26-Aug-08	N	2056.38	2075	0.06F	<0.002	0.0012	0.083	<0.01	0.05	0.0002F	549	5	<0.05	0.14	0.04F	1.7	<0.05	<0.0005
		2-Sep-08	N	2056.38	2075	<0.3D1	<0.002	0.0009F	0.024FD1	<0.02D1	0.02F	<0.0005	586D1	6	<0.1D1	0.02FD1	<0.1D1	1.8	<0.1D1	<0.0005
		9-Sep-08	N	2056.38	2075	<0.2	<0.002	<0.001	0.018	<0.01	0.02	<0.0005	582	1	<0.05V1	0.02	0.02	1.6	<0.05V1	<0.0005
		16-Sep-08	N	2056.38	2075	0.07	<0.002	0.0006	0.016	<0.01	0.01	<0.0005	552	<5	<0.05	0.01	0.03	1.5	<0.05	<0.0005
		23-Sep-08	N	2056.38	2075	<0.2	<0.002	0.0007	0.013	<0.01	<0.05	0.0001	478	<5	<0.05	0.02	0.1	1.2	<0.05	<0.0005B4
		30-Sep-08	N	2056.38	2075	0.07	<0.002	<0.001	0.012	<0.01	<0.05	0.0002	527	<5	<0.05	0.01	0.05	1.3	<0.05	<0.0005
		7-Oct-08	N	2056.38	2075	<0.2	<0.002	<0.001	0.012F	<0.01	0.01F	0.0001F	483	<5	<0.05	0.03F	0.11	0.7	<0.05	<0.0005
		14-Oct-08	N	2056.38	2075	<0.2	<0.002	<0.001	0.012F	<0.01	<0.05	0.0002F	553	<5	<0.05	0.03F	0.22	1.1	<0.05	<0.0005
		21-Oct-08	N	2056.38	2075	0.06F	<0.002	0.0006F	0.007F	<0.01	<0.05	0.0002F	487	<5	<0.05	0.02F	0.23	0.8	<0.05	0.0001F
		28-Oct-08	N	2056.38	2075	<0.3D2	<0.002	<0.002	0.015FD2	<0.02D2	<0.1D2	0.0002F	592D2	<5	<0.1D2	0.04FD2	0.28D2	1.1	<0.1D2	<0.0005
		4-Nov-08	N	2056.38	2075	<0.2	<0.002	<0.002	0.014F	<0.01	<0.05	0.0003F	518	<5	<0.05	0.02F	0.35	1.2	<0.05	<0.0005
		11-Nov-08	N	2056.38	2075	<0.2	<0.002	<0.002	0.011F	0.002F	0.01F	0.0003F	516	<5	<0.05	0.03F	0.52	1.1	<0.05	<0.0005
		18-Nov-08	N	2056.38	2075	<0.2	<0.002	<0.002	0.01F	<0.01	<0.05	0.0003F	508	<5	<0.05	0.03F	0.55	1	<0.05	<0.0005
		25-Nov-08	N	2056.38	2075	<0.2	<0.002	<0.002	0.012F	<0.01	0.01F	0.0003F	490	<5	<0.05	0.03F	0.78	1	<0.05	<0.0005
		2-Dec-08	N	2056.38	2075	<0.2	<0.002	<0.002	0.006F	<0.01	<0.05	0.0003F	472	<5	<0.05	0.02F	0.78	1.1	<0.05	<0.0005

--	Not requested.
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UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
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D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
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RES-009E	TEST 54	9-Dec-08	N	2056.38	2075	0.05F	<0.002	0.0005F	0.011F	<0.01	<0.05	0.0003F	481	<5	<0.05	0.02F	0.87	1	<0.05	<0.0005
		16-Dec-08	N	2056.38	2075	<0.3D1	<0.002	<0.002	<0.03D1	<0.01	<0.05	0.0003F	395	1F	<0.1D1	0.03F	0.75D1	0.8	<0.05	<0.0005
		23-Dec-08	N	2056.38	2075	0.26	--	<0.002	0.012F	<0.01	--	0.0003F	484	<5	--	0.03F	1.06	0.9	<0.05	<0.0005
		30-Dec-08	N	2056.38	2075	0.03F	--	<0.002	0.017F	<0.01	--	0.0004F	469M3	<5	--	0.04F	1.12	0.3F	<0.05	<0.0005
		6-Jan-09	N	2056.38	2075	0.1F	--	<0.002	0.009F	<0.01	--	0.0003F	416	<5	--	0.02F	0.9	0.9	<0.05	<0.0005
		13-Jan-09	N	2056.38	2075	<0.2	<0.002	<0.002	0.009F	0.002F	<0.05	0.0004F	446	<5	0.01F	0.03F	1.09	1	<0.05	<0.0005
		20-Jan-09	N	2056.38	2075	<0.2	--	<0.002	0.008F	<0.01	--	0.0003F	386	1F	--	0.03F	1.02	0.8	<0.05	<0.0005
		27-Jan-09	N	2056.38	2075	<0.2	--	<0.002	0.008F	<0.01	--	0.0004F	480	1F	--	0.02F	1.18	1	<0.05	<0.0005
		3-Feb-09	N	2056.38	2075	<0.2	--	<0.002	0.008F	<0.01	--	0.0004F	465	<5	--	0.02F	1.52	0.9	<0.05	<0.0005
		10-Feb-09	N	2056.38	2075	0.39	--	<0.002	0.009F	<0.01	--	0.0004F	520	<5	--	0.03F	1.34	1	<0.05	<0.0005
		17-Feb-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	2056.38	2075	<0.2	<0.002V1	0.0005F	0.011F	0.002F	<0.05	0.0004F	469	<3	<0.05	0.03F	1.86	1.1	<0.05	<0.0005
		17-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	2056.38	2075	0.05F	<0.002	<0.002	0.008F	0.003F	<0.05	0.0005	476	<3	0.01F	0.03F	2.07	1	<0.05	<0.0005
		14-Apr-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	2056.38	2075	<0.2	<0.002	<0.002	0.009F	0.003F	<0.05	0.0006	469	<3	<0.05	0.03F	2.36	1.1	<0.05	0.0002F
		12-May-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	2056.38	2075	<0.2	<0.002	<0.002	0.01F	0.003F	<0.05	0.0007	459	<3	<0.05	0.02F	2.52	1.2	<0.05	<0.0005
		9-Jun-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	2056.38	2075	0.05F	<0.002	<0.002	0.007F	<0.01	<0.05	0.0009	507	<3	<0.05	0.03F	3.1	1.3	<0.05	0.0003F
		7-Jul-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS														
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Aluminum MG/L	Antimony MG/L	Arsenic MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	TEST 54	14-Jul-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	2056.38	2075	<0.2	<0.002	<0.002	0.011F	0.006F	<0.05	0.0009	423	<3	<0.05	0.02F	3.84	1.3	<0.05	<0.0005
		4-Aug-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	2056.38	2075	<0.2	0.0009F	<0.002	0.013F	0.005F	0.02F	0.001	501	<3	0.01F	0.03F	4.44	1.5	<0.05	0.0042
		1-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	2056.38	2075	0.13F	<0.002	<0.002	0.009F	0.007F	<0.05	0.001	413	<50D1	<0.05	0.03F	5.65	<10D1	0.05	0.0001F
		29-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	2056.38	2075	0.06F	<0.002	<0.002	0.004F	<0.01	<0.05	0.0007	371	<3	<0.05	0.02F	5.27	1.1	<0.05	<0.0005
		27-Oct-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	2056.38	2075	0.13FD1	<0.002	<0.002	0.006F	0.005F	<0.1D1	0.0007	416	<3	<0.05	0.02F	4.84	1.1	<0.05	<0.0005
		24-Nov-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		1-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Dec-09	N	2056.38	2075	<0.3D1	<0.002	<0.002	0.007F	0.004F	<0.05	0.0006	329	<3	<0.05	<0.05	4.14	0.9	<0.05	<0.0005
		22-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		29-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-Jan-10	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12-Jan-10	N	2056.38	2075	0.04F	<0.002	<0.002	0.005F	0.004F	<0.05	0.0006	283	<3	0.01F	<0.05	3.42	0.8	<0.05	<0.0005
		19-Jan-10	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-Jan-10	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 1	26-Aug-08	N	1639	1642	6.9	0.616	<0.001	0.08	<0.05	59.9	0.0248	13.8	<0.03	359	0.0002	0.0107	0.007	0.02
		2-Sep-08	N	1639	1642	0.6F	0.064	<0.001	0.02F	<0.05	17.8	0.0128	8.8	<0.03	82.7	<0.0005	0.002	<0.03	<0.05
		9-Sep-08	N	1639	1642	<2D2	0.095	<0.001	<0.05	<0.05	5.7	0.0021	3.7	<0.03M2	12.6	<0.0005	0.0004	<0.03	<0.05
		16-Sep-08	N	1639	1642	0.3	0.099	<0.001	0.02	<0.05	12.6	0.0029	8.1	0.01	30.8	<0.0005	0.001	<0.03	0.01
		23-Sep-08	N	1639	1642	0.2	0.104	<0.001	0.02	<0.05	6.7	0.0019	5.5M1	<0.03M2	10.4	<0.0005	0.0004	<0.03	<0.05
		30-Sep-08	N	1639	1642	<1	0.066	<0.001	<0.05	<0.05	6.1	0.0016	3.6	<0.03M2	5.4	<0.0005	0.0002	<0.03	<0.05M1
		7-Oct-08	N	1639	1642	<1	0.099	<0.001	<0.05	<0.05	8.5	0.0025	4.6	<0.03M2	9.2	<0.0005	0.0003F	<0.03	<0.05
		14-Oct-08	N	1639	1642	0.5F	0.177	<0.001	<0.05	<0.05	11.5	0.0026	6.1	<0.03M2R1	11.7	<0.0005	0.0005	<0.03	<0.05
		21-Oct-08	N	1639	1642	0.4F	0.179	<0.001	<0.05	<0.05	7.2	0.0017	4.4M1	<0.03M2	6.5	<0.0005	0.0004F	<0.03	<0.05
		28-Oct-08	N	1639	1642	0.3F	0.165	<0.001	0.02F	<0.05	7.8	0.0021	4.6	<0.03	8.3	<0.0005	0.0004F	<0.03	<0.05
		4-Nov-08	N	1639	1642	0.2F	0.075	<0.001	<0.05	<0.05	5.1	0.0011	3.4M1	<0.03M2	2.2	<0.0005	<0.0005	<0.03	<0.05
	TEST 1S	11-Nov-08	N	1639	1642	1.1	0.479	<0.001	0.02F	<0.05	15.3	0.0113	6.5M1	<0.03M2	11.6	<0.0005	0.0007	<0.03	<0.05
		18-Nov-08	N	1639	1642	0.4F	0.197	<0.001	<0.05M1	<0.05	5.5	0.0026	2.7M1	<0.03M2	2.2	<0.0005	0.0002F	<0.03	<0.05
		25-Nov-08	N	1639	1642	0.4F	0.325	<0.001	<0.05	<0.05	5.2	0.0017	1.5F	<0.03M2	2.2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1639	1642	0.4F	0.301	<0.001	<0.05	<0.05	3.6	0.0008	1.2F	<0.03	1.6F	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1639	1642	<1	0.259	<0.001	<0.05	<0.05	2.9	0.0006	1.2F	<0.03	1F	<0.0005	<0.0005	<0.03	0.01F
		16-Dec-08	N	1639	1642	<1	0.252	<0.001	<0.05	<0.05	3.6	0.0005	0.9F	<0.03	1.2F	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	N	1639	1642	<1	0.206	--	0.01F	<0.05	1.9F	0.0002F	0.6F	--	0.6F	<0.0005	<0.0005	--	<0.05
		30-Dec-08	N	1639	1642	0.3F	0.304	--	<0.05	<0.05	2.8	0.0005	0.8F	--	1F	<0.0005	<0.0005	--	<0.05
		6-Jan-09	N	1639	1642	<1	0.247	--	<0.05	<0.05	2.8	0.0007	0.9F	--	1.1F	<0.0005	<0.0005	--	<0.05
		13-Jan-09	N	1639	1642	0.6F	0.25	<0.001	<0.05	<0.05	2.3	0.0005	0.6F	<0.03M2	0.8F	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	1639	1642	0.3FM1	0.279	--	<0.05M1	<0.05	2.5	0.0007	0.8F	--	0.9F	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	1639	1642	0.2F	0.267	--	<0.05	<0.05	2.3	0.0004FM1	0.8F	--	0.8F	<0.0005	<0.0005	--	<0.05
		3-Feb-09	N	1639	1642	0.2F	0.264	--	<0.05M1	<0.05	2.1	0.0005	0.6F	--	0.7F	<0.0005	<0.0005	--	<0.05
		10-Feb-09	N	1639	1642	0.3F	0.312	<0.001H3	<0.05	<0.05	2.5	0.0007M1	0.8F	<0.03M2	0.8F	<0.0005	<0.0005	<0.03	<0.05
		17-Feb-09	N	1639	1642	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 2	26-Aug-08	N	1745	1748	21D2	2.29	<0.001	<0.3D2	<0.3D2	28.5	0.0095	6.1	<0.03	87.5	0.0001	0.0015	<0.03	<0.3D2
		2-Sep-08	N	1745	1748	12.6	1.37	<0.001	0.05	<0.05	19.9	0.0064	7.6	<0.03M2	41.9	<0.0005	0.0012	<0.03	<0.05
		9-Sep-08	N	1745	1748	10.7	1.27	<0.001	0.03	<0.05	16.9	0.0033	8.1	0.02	23.1	<0.0005	0.0013	<0.03	<0.05
		16-Sep-08	N	1745	1748	8.3	0.979	<0.001	0.04	<0.05	14.2	0.0023	6.8	<0.03	14.8	<0.0005	0.001	<0.03	0.01
		23-Sep-08	N	1745	1748	6.5	0.756	<0.001	0.04	<0.05	12.7	0.0023	7.8	<0.03	7.9	<0.0005	0.0009	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 2	30-Sep-08	N	1745	1748	7.4	0.982	<0.001	0.02	<0.05	15.8	0.0023	8.7	<0.03	6.9	<0.0005	0.0012	<0.03	<0.05
		7-Oct-08	N	1745	1748	5.2	0.634	<0.001	0.02F	<0.05	11.4	0.0021	6.4	<0.03	3.9	<0.0005	0.0009	<0.03	<0.05
		14-Oct-08	N	1745	1748	4.9	0.691	<0.001	0.01F	<0.05	10.6	0.0021	6.4	<0.03	3	<0.0005	0.001	<0.03	<0.05
		21-Oct-08	N	1745	1748	3.5	0.541	<0.001	<0.05	<0.05	8.6	0.0015	6.8	<0.03	1.8F	<0.0005	0.0008	<0.03	<0.05
		28-Oct-08	N	1745	1748	3.4	0.537	<0.001	0.02F	<0.05	8.7	0.0015	6.3M1	<0.03M2	1.9F	<0.0005	0.001	<0.03	<0.05
		4-Nov-08	N	1745	1748	4.8	0.874	<0.001	0.02F	<0.05	12.4	0.0019	10.6	<0.03	2.2	<0.0005	0.0011	<0.03	<0.05
		11-Nov-08	N	1745	1748	2.6	0.539	<0.001	0.03F	0.01F	8.2	0.0015	7	<0.03	1.1F	<0.0005	0.0009	<0.03	<0.05
		18-Nov-08	N	1745	1748	0.3F	0.096	<0.001	<0.05	<0.05	2.1	0.0003F	1.5F	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		25-Nov-08	N	1745	1748	1.8	0.493	<0.001	<0.05	<0.05	8	0.0015	5.7	<0.03	0.9F	<0.0005	0.001	<0.03	<0.05
		2-Dec-08	N	1745	1748	1.1	0.275	<0.001	<0.05	<0.05	5.5	0.0009	3.7	<0.03	0.7F	<0.0005	0.0005	<0.03	<0.05
		9-Dec-08	N	1745	1748	1.3	0.399	<0.001	<0.05	<0.05	6	0.0011	4.9	<0.05D1M2	0.9F	<0.0005	0.0008	<0.03	<0.05
		16-Dec-08	N	1745	1748	0.7F	0.208	<0.001	<0.05	<0.05	5.9	0.0008	2.9	<0.03	0.6F	<0.0005	0.0004F	<0.03	<0.05
		23-Dec-08	N	1745	1748	0.5F	0.209	--	0.02F	<0.05	4.7	0.0007	3	--	0.6F	<0.0005	0.0004F	--	<0.05
		30-Dec-08	N	1745	1748	0.6F	0.198	--	<0.05	<0.05	4.2	0.0007	2.9	--	0.4F	<0.0005	0.0004F	--	<0.05
		6-Jan-09	N	1745	1748	0.5F	0.218	--	<0.05	<0.05	4.4	0.0009	3.3	--	0.8F	<0.0005	0.0004F	--	<0.05
		13-Jan-09	N	1745	1748	<1	0.205	<0.001	<0.05	<0.05	4.9	0.0009	3.6	<0.03	0.5F	<0.0005	0.0004F	<0.03	<0.05
		20-Jan-09	N	1745	1748	0.8F	0.207	--	<0.05	<0.1D1	4.5	0.0009	4.4	--	0.5F	<0.0005	0.0004F	--	<0.05
		27-Jan-09	N	1745	1748	0.8F	0.233	--	0.01F	<0.05	4.3	0.0008	3.9	--	0.5F	<0.0005	0.0004F	--	<0.05
		3-Feb-09	N	1745	1748	0.8F	0.219	--	<0.05	<0.05	4.7	0.0008	4.9	--	0.5F	<0.0005	0.0004F	--	<0.05
		10-Feb-09	N	1745	1748	1	0.266	--	<0.05	<0.05	5.4	0.0009	6.1M1	--	0.6F	<0.0005	0.0006	--	<0.05
		17-Feb-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1745	1748	0.8F	0.26	<0.001	0.01F	<0.05	5	0.0004F	4.5M1	<0.03M2	0.6F	<0.0005	0.0004F	<0.03	<0.05L1
		17-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1745	1748	0.7F	0.227	<0.001	0.02F	<0.05	4.3	0.0004F	4.5M1	<0.03M2	0.4F	<0.0005	0.0004F	<0.03	<0.05
		14-Apr-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 2	5-May-09	N	1745	1748	0.6F	0.22	<0.001	<0.05	<0.05	4.2	0.0007	3.9	<0.03M2	0.4F	<0.0005	0.0003F	<0.03	<0.05
		12-May-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1745	1748	0.4F	0.18	<0.001	<0.05	<0.05	4.4	0.0007	4.6	<0.03M2	0.4F	<0.0005	0.0003F	0.005F	<0.05
		9-Jun-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1745	1748	0.4F	0.156	<0.001	0.01F	<0.05	4.8	0.0009	5.1M1	<0.03M2	0.5F	<0.0005	0.0002F	<0.03	<0.05
		7-Jul-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1745	1748	0.8FM1	0.228	<0.001	0.03F	<0.05	6.4	0.0013	7.7M1	<0.03M2	0.9F	<0.0005	0.0004F	<0.03M1	<0.05M1
		4-Aug-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1745	1748	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1745	1748	0.7F	0.19	<0.001	<0.05	0.01FM1	5.4	0.001	8M1	<0.03M2	0.7F	<0.0005	0.0003F	<0.03	<0.05
	TEST 3	26-Aug-08	N	1771.75	1791.4	21D2	0.07	<0.001	0.28D2	<0.3D2	24.8	0.007	27	<0.03	80.7	0.0001	0.0004	<0.03	<0.3D2
		2-Sep-08	N	1771.75	1791.4	21	0.103	<0.001	0.24	<0.05	18	0.0072	17.9	<0.03	53.9	0.0001F	0.0007	<0.03	<0.05
		9-Sep-08	N	1771.75	1791.4	17.7	0.098	<0.001	0.16	<0.05	12.3	0.0061	14	<0.03	30.3	0.0001	0.0006	<0.03	<0.05
		16-Sep-08	N	1771.75	1791.4	20.3	0.113	<0.001	0.14	<0.05	10.5	0.0051	15.1	<0.03	20.7	<0.0005	0.0005	<0.03	0.01
		23-Sep-08	N	1771.75	1791.4	13.7	0.091	<0.001	0.12	<0.05	7.3	0.0052	13.9	<0.03	12.4	<0.0005	0.0005	0.009	<0.05
		30-Sep-08	N	1771.75	1791.4	15.5	0.101	<0.001	0.09	<0.05	8.3	0.0047	13.3	<0.03	9.9	<0.0005	0.0005	<0.03	<0.05
		7-Oct-08	N	1771.75	1791.4	13.4	0.085	<0.001	0.08	<0.05	5.7	0.0041	11	<0.03	6.4	<0.0005	0.0004F	<0.03	<0.05
		14-Oct-08	N	1771.75	1791.4	15.4	0.108	<0.001	0.08	<0.05	5.8	0.0043	12.9	0.02F	5.4	<0.0005	0.0006	<0.03	<0.05
		21-Oct-08	N	1771.75	1791.4	14.6	0.106	<0.001	0.09	<0.05	4.6	0.0044B7	13.7	<0.03	3.4	<0.0005	0.0006	<0.03	<0.05
		28-Oct-08	N	1771.75	1791.4	9.9	0.077	<0.001	0.07	<0.05	3.4	0.0038	10.6	<0.03	2.5	<0.0005	0.0004F	0.009F	<0.05
		4-Nov-08	N	1771.75	1791.4	11	0.082	<0.001	0.06	<0.05	3.5	0.0036	11.7	<0.03	1.7F	<0.0005	0.0004F	<0.03	<0.05
		11-Nov-08	N	1771.75	1791.4	10.5	0.084	<0.001	0.07	<0.05	3.3	0.0041	10.6	<0.03	1.3F	<0.0005	0.0005	<0.03	<0.05
		18-Nov-08	N	1771.75	1791.4	11.9	0.096	<0.001	0.07	<0.05	3.5	0.0048M1	11.9	<0.03	1.1F	<0.0005	0.0006	<0.03	<0.05
		25-Nov-08	N	1771.75	1791.4	9.4	0.073	<0.001	0.05	<0.05	3.2	0.0039	8.6	<0.03	0.7F	<0.0005	0.0004F	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 3	2-Dec-08	N	1771.75	1791.4	9.9	0.073	<0.001	0.05	<0.05	3.3	0.0034	9.1	<0.03	0.6F	<0.0005	0.0006	<0.03	<0.05
		9-Dec-08	N	1771.75	1791.4	10.2	0.078	<0.001	0.05	<0.05	2.7	0.0036	9.7	<0.05D1	0.5F	<0.0005	0.0006	<0.03	<0.05
		16-Dec-08	N	1771.75	1791.4	8	0.06	0.0002F	0.05	<0.05	3.2	0.0031	7.2	<0.03	0.4F	<0.0005	0.0005	<0.03	<0.05
		23-Dec-08	N	1771.75	1791.4	9.9	0.092	--	0.06	<0.05	2.9	0.0037	9.3	--	0.4F	<0.0005	0.0006	--	<0.05
		30-Dec-08	N	1771.75	1791.4	7.4	0.06	--	0.04F	<0.05	1.9F	0.0031	7.5	--	<2	<0.0005	0.0004F	--	<0.05
		6-Jan-09	N	1771.75	1791.4	8.9	0.08	--	0.06	<0.05	2.6	0.0038	9.1	--	0.5F	<0.0005	0.0005	--	<0.05
		13-Jan-09	N	1771.75	1791.4	7.7	0.056	<0.001	0.04F	<0.05	2.2	0.0034	7.9	<0.03	<2	<0.0005	0.0005	<0.03	<0.05
		20-Jan-09	N	1771.75	1791.4	7.6	0.064	--	0.04F	<0.05	2.3	0.0036	8.9	--	<2	<0.0005	0.0006	--	<0.05
		27-Jan-09	N	1771.75	1791.4	7.2	0.066	--	0.05	<0.05	2.2	0.0034	7.9	--	<2	<0.0005	0.0004F	--	<0.05
		3-Feb-09	N	1771.75	1791.4	9.2	0.081	--	0.05	<0.05	2.6	0.0034	10.8	--	<2	<0.0005	0.0007	--	<0.05
		10-Feb-09	N	1771.75	1791.4	7.6	0.069	<0.001H3	0.06	0.03F	2.2	0.0041	9.2	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		17-Feb-09	N	1771.75	1791.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 4	26-Aug-08	N	1855	1858	46D2	0.293	<0.001	<0.5D2	<0.5D2	57.7	0.178	53.4	<0.03	341	0.0002	0.0035	<0.03	<0.5D2
		2-Sep-08	N	1855	1858	25.1	0.171	<0.001	0.05	<0.05	32.1	0.0371	25.1	<0.03	146	0.0001F	0.0011	<0.03	<0.05
		9-Sep-08	N	1855	1858	16.5	0.175	<0.001	0.02	<0.05	20.4	0.0145	16.9	0.01	7.6	<0.0005	0.0008	<0.03	<0.05
		16-Sep-08	N	1855	1858	30	0.199	<0.001	0.04	<0.05	23.1	0.0227	24.2	<0.03	2.1	<0.0005	0.0008	<0.03	0.01
		23-Sep-08	N	1855	1858	3.6	0.036	<0.001	0.02	<0.05	2.9	0.0047	5	<0.03	<2	<0.0005	0.0001	<0.03	<0.05
		30-Sep-08	N	1855	1858	6.7	0.059	<0.001	<0.05	<0.05	4.9	0.0082	9.4	<0.03	0.3	<0.0005	0.0004	<0.03	<0.05
		7-Oct-08	N	1855	1858	12.5	0.134	<0.001	0.02F	<0.05	5.3	0.0099	13.5	<0.03	0.6F	<0.0005	0.0006	<0.03	<0.05
		14-Oct-08	N	1855	1858	11.5	0.108	<0.001	<0.05	<0.05	4.8	0.0116	16.4	<0.03	0.6F	<0.0005	0.0008	<0.03	<0.05
		21-Oct-08	N	1855	1858	11.6	0.113	<0.001	0.01F	<0.05	3.9	0.0114B7	16.2	<0.03	0.4F	<0.0005	0.0008	<0.03	<0.05
		28-Oct-08	N	1855	1858	5.8	0.086	<0.001	0.02F	<0.05	2.2	0.0097	13.3	<0.03	0.9F	<0.0005	0.0005	0.005F	<0.05
		4-Nov-08	N	1855	1858	3.3	0.055	<0.001	0.01F	<0.05	0.8F	0.003	4.4	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
	TEST 4S	11-Nov-08	N	1855	1858	12.4	0.123	<0.001	0.03F	<0.05	2.9	0.0158	15.3	<0.03	0.3F	<0.0005	0.0008	<0.03	<0.05
		18-Nov-08	N	1855	1858	2.7	0.093	<0.001	0.02F	<0.05	0.9F	0.0046	3.6	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		25-Nov-08	N	1855	1858	2.7	0.06	<0.001	<0.05	<0.05	1F	0.0052	3.6	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		2-Dec-08	N	1855	1858	2.3	0.061	<0.001	<0.05	<0.05	0.8F	0.0035	2.7	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1855	1858	1.6	0.028F	<0.001	<0.05	<0.05	0.4F	0.0033	2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 5	26-Aug-08	FD	1855	1858	46D2	0.284	<0.001	<0.5D2	<0.5D2	57	0.175	53.7	<0.03	325	0.0003	0.0035	<0.03	<0.5D2

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 5	2-Sep-08	FD	1855	1858	33.9	0.176	<0.001	0.05	<0.05	42.5	0.052	33.5	<0.03	160	0.0001F	0.0017	<0.03	<0.05
		9-Sep-08	FD	1855	1858	19.2	0.174	<0.001	0.02	<0.05	19.8	0.0198	18	<0.03	4.4	<0.0005	0.0009	<0.03	<0.05
		16-Sep-08	FD	1855	1858	19.4	0.17	<0.001	0.03	<0.05	14.6	0.0145	15.2	0.01	1.7	<0.0005	0.0007	<0.03	0.01
		23-Sep-08	FD	1855	1858	16	0.151	<0.001	0.03	<0.05	10	0.0194	15.6	<0.03	0.8	<0.0005	0.0008	0.006	<0.05
		30-Sep-08	FD	1855	1858	11.7	0.103	<0.001	<0.05	<0.05	6	0.0123	11.8	<0.03	0.4	<0.0005	0.0006	<0.03	<0.05
		7-Oct-08	FD	1855	1858	6.8	0.061	<0.001	<0.05	<0.05	2.5	0.0081	8.2	0.01F	<2	<0.0005	0.0003F	<0.03	<0.05
		14-Oct-08	FD	1855	1858	8.8	0.076	<0.001	<0.05	<0.05	2.8	0.0097	12.2	<0.03	0.5F	<0.0005	0.0006	<0.03	<0.05
		21-Oct-08	FD	1855	1858	6.4	0.067	<0.001	<0.05	<0.05	1.8F	0.0086B7	11.3	<0.03	<2	<0.0005	0.0005	0.006F	<0.05
		28-Oct-08	FD	1855	1858	10.9	0.134	<0.001	0.03F	<0.05	2.6	0.0144	17	<0.03	0.7F	<0.0005	0.0011	0.009F	<0.05
		4-Nov-08	FD	1855	1858	2.5	0.032	<0.001	<0.05	<0.05	0.7F	0.0033	4	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	FD	1855	1858	2.8	0.039	<0.001	0.02F	<0.05	0.7F	0.0047	4.3	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		18-Nov-08	FD	1855	1858	3.9	0.052	<0.001	0.02F	<0.05	1.3F	0.007	8.2	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		25-Nov-08	FD	1855	1858	3.3	0.051	<0.001	<0.05	<0.05	1.2F	0.0058	6.3	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		2-Dec-08	FD	1855	1858	2.5	0.042	<0.001	<0.05	<0.05	0.9F	0.0037	4.5	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		9-Dec-08	FD	1855	1858	3.1	0.052	<0.001	<0.05	<0.05	0.7F	0.0048	6	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		16-Dec-08	FD	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	FD	1855	1858	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 6	26-Aug-08	N	1873	1876	29D2	0.14	<0.01D2	0.25	<0.3D2	44.3	0.213B7	22.9	0.01	232	0.0003	0.0068	<0.03	<0.3D2
		2-Sep-08	N	1873	1876	6.3	0.027F	<0.001	0.17	<0.05	20.2	0.0179	22.5	<0.03	97.4	0.0001F	0.0024	0.018F	<0.05
		9-Sep-08	N	1873	1876	2.7	0.028	<0.001	0.06	<0.05	9.7	0.0113	12.6	0.01	41	<0.0005	0.0015	0.012	<0.05
		16-Sep-08	N	1873	1876	2.3	0.02	<0.001	0.06	<0.05	12.3	0.0119	23.4	<0.03	51.9	<0.0005	0.0013	0.02	<0.05
		23-Sep-08	N	1873	1876	1.1	0.017	<0.001	0.03	<0.05	5.2	0.0056	8.6	<0.03	17.9	<0.0005	0.0009	<0.03	<0.05
		30-Sep-08	N	1873	1876	0.7	0.005	<0.001	<0.05	<0.05	7.1	0.0079	7.5	<0.03	16.8	<0.0005	0.0003	0.008	<0.05
		7-Oct-08	N	1873	1876	0.7F	0.007F	<0.001	<0.05	<0.05	6	0.005	5.2	<0.03	12.9	<0.0005	0.0002F	0.005F	<0.05
		14-Oct-08	N	1873	1876	0.9F	0.009F	<0.001	<0.05	<0.05	5.8	0.004	4.2	<0.03	11.1	<0.0005	0.0002F	<0.03	<0.05
		21-Oct-08	N	1873	1876	2.2	0.022F	<0.001	0.02F	<0.05	7.8	0.0065B7	7.1	<0.03	18.1	<0.0005	0.0012	<0.03	<0.05
		28-Oct-08	N	1873	1876	1.5	0.032	<0.001	0.03F	<0.05	4.9	0.0054	5.9	<0.03	14	<0.0005	0.001	0.008F	<0.05
		4-Nov-08	N	1873	1876	1	0.01F	<0.001	0.01F	<0.05	4.9	0.0047	5.5	<0.03	9.6	<0.0005	0.0003F	<0.03	<0.05
		11-Nov-08	N	1873	1876	0.7F	0.007F	<0.001	<0.05	<0.05	3.5	0.0032	2.5	<0.03	5	<0.0005	0.0002F	<0.03	0.01F
		18-Nov-08	N	1873	1876	0.9F	0.01F	<0.001	0.02F	<0.05	3.9	0.0031	2.9	<0.03	5.3	<0.0005	0.0002F	<0.03	<0.05
		25-Nov-08	N	1873	1876	0.9F	0.008F	<0.001	<0.05	<0.05	3.8	0.0028	2.3	<0.03	5.1	<0.0005	0.0001F	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 6	2-Dec-08	N	1873	1876	0.8F	<0.03	<0.001	<0.05	<0.05	3.2	0.0019	1.8F	<0.03	3.9	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1873	1876	0.8F	0.012F	<0.001	<0.05	<0.05	3.4	0.0025	2.1	<0.03	4.6	<0.0005	0.0001F	<0.03	<0.05
		16-Dec-08	N	1873	1876	1.2	0.013F	<0.001	<0.05	<0.05	5.5	0.0035	3.4	<0.03	8	<0.0005	0.0002F	<0.03	<0.05
		23-Dec-08	N	1873	1876	0.8F	0.02F	--	0.02F	<0.05	3.9	0.0024	2.3	--	5.4	<0.0005	0.0002F	--	<0.05
		30-Dec-08	N	1873	1876	1.1	0.013F	--	<0.05	<0.05	3.8	0.0027	2.9	--	5.5	<0.0005	0.0002F	--	<0.05
		6-Jan-09	N	1873	1876	0.9F	0.019F	--	<0.05	<0.05	3.9	0.0032	2.6	--	5.5	<0.0005	0.0002F	--	<0.05
		13-Jan-09	N	1873	1876	0.9F	0.005F	<0.001	<0.05	<0.05	3.6	0.0027	2.6	<0.03	4.8	<0.0005	0.0002F	0.007F	<0.05
		20-Jan-09	N	1873	1876	2.3	0.035	--	0.01F	<0.05	6.6	0.0053	6	--	9.5	<0.0005	0.0005	--	<0.05
		27-Jan-09	N	1873	1876	1.1	0.018F	--	<0.05	<0.05	3.8	0.0038	3.1	--	4.8	<0.0005	0.0002F	--	<0.05
		3-Feb-09	N	1873	1876	1.4	0.016F	--	<0.05	<0.05	4.7	0.0035	3.9	--	5.4	<0.0005	0.0002F	--	<0.05
		10-Feb-09	N	1873	1876	1.7	0.021F	--	<0.05	<0.05	4.6	0.0032	4.7	--	4.9	<0.0005	0.0001F	--	<0.05
		17-Feb-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1873	1876	1.5	0.025F	<0.001	<0.05	<0.05	4.6	0.0029	3	<0.03	4.1	<0.0005	<0.0005	<0.03	<0.05L1
		17-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1873	1876	2.1	0.026F	<0.001	0.01FM1	<0.05	4.2	0.0033	3.7	<0.03	4.3	<0.0005	0.0002F	<0.03	<0.05
		14-Apr-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1873	1876	2.4	0.029F	<0.001	<0.05	<0.05	4.8	0.0036	3.3	<0.03	4.3	<0.0005	0.0002F	<0.03	<0.05
		12-May-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1873	1876	3	0.032	<0.001	<0.05	<0.05	7.3	0.007	6.2	<0.03	7.2	<0.0005	0.0006	<0.03	<0.05
		9-Jun-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1873	1876	4.3	0.043	<0.001	<0.05	<0.05	7.8	0.0084B1	6.4	<0.03	4.7	<0.0005	0.0003F	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 6	7-Jul-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1873	1876	5.9	0.047	<0.001	0.03F	<0.05	12.7	0.0125	10.6	<0.03	7.2	<0.0005	0.001	<0.03	<0.05
		4-Aug-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1873	1876	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1873	1876	4.6	0.039	<0.001	<0.05	0.02F	8.4	0.0093	8.3	<0.03	1.7F	<0.0005	0.0004F	<0.03	<0.05
	TEST 7	26-Aug-08	N	2041	2044	137D2	2.41	<0.001	<0.5D2	<0.3D2	103	0.0316B7	10	<0.03	59.4	0.0004	0.0037	<0.03	<0.3D2
		2-Sep-08	N	2041	2044	20.8	0.266	<0.001	0.02F	<0.05	34.8	0.0039	7.1	<0.03	2.2	0.0001F	0.0007	<0.03	<0.05
		9-Sep-08	N	2041	2044	9.6	0.168	<0.001	0.01	<0.05	17.4	0.0024	4.2	0.01	0.8	<0.0005	0.0003	<0.03	<0.05
		16-Sep-08	N	2041	2044	15.5	0.397	<0.001	0.03	<0.05	29.4	0.0032	7.4	<0.03	0.9	<0.0005	0.0004	<0.03	0.02
		23-Sep-08	N	2041	2044	11.2	0.346	<0.001	0.03	<0.05	24.6	0.0031	6.3	<0.03	0.3	<0.0005	0.0003	0.005	<0.05
		30-Sep-08	N	2041	2044	9.1	0.379	<0.001	<0.05	<0.05	22.6	0.003	5	<0.03	<2	<0.0005	0.0002	<0.03	<0.05
		7-Oct-08	N	2041	2044	6.5	0.354	<0.001	0.01F	<0.05	19.9	0.0021	4.1	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		14-Oct-08	N	2041	2044	3.3	0.241	<0.001	<0.05	<0.05	12.3	0.0015	2.8	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	2041	2044	3.4	0.296	<0.001	0.01F	<0.05	12.4	0.0019	3.5	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	2041	2044	2.4	0.304	<0.001	0.02F	<0.05	11.3	0.0017	3.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	2041	2044	2.2	0.284	<0.001	0.01F	<0.05	9.6	0.0013	2.8	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	N	2041	2044	2.4	0.342	<0.001	0.02F	<0.05	10	0.0016	2.7	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	2041	2044	3.7	0.529	<0.001	0.03F	<0.05	13.7	0.0027	3.7	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		25-Nov-08	N	2041	2044	1.7	0.354	<0.001	<0.05	<0.05	8.3	0.0014	2.1	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	2041	2044	1.4	0.339	<0.001	<0.05	<0.05	6.9	0.0009	2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	2041	2044	1.5	0.46	<0.001	<0.05	<0.05	7.5	0.001	2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	2041	2044	1	0.304	<0.001	<0.05	<0.05	6.6	0.0007	1.6F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	N	2041	2044	1.1	0.331	--	0.02F	<0.05	6.8	0.0009	1.8F	--	<2	<0.0005	<0.0005	--	<0.05
		30-Dec-08	N	2041	2044	1.2	0.476	--	<0.05	<0.05	6.2	0.0011	1.6F	--	<2	<0.0005	<0.0005	--	<0.05
		6-Jan-09	N	2041	2044	1.2	0.418	--	<0.05	<0.05	7.8	0.0014	2.1	--	<2	<0.0005	<0.0005	--	0.01F
		13-Jan-09	N	2041	2044	1.2	0.514	<0.001	<0.05	<0.05	7.8	0.0013	2.5	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	2041	2044	1.3	0.475	--	0.02F	<0.05	8	0.0015	3	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	2041	2044	1.1	0.505	--	<0.05	<0.05	7.2	0.0017	2.9	--	<2	<0.0005	<0.0005	--	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-001C	TEST 7	3-Feb-09	N	2041	2044	1.1	0.53	--	<0.05	<0.05	8.2	0.0015	3.2	--	<2	<0.0005	<0.0005	--	<0.05
		10-Feb-09	N	2041	2044	0.9F	0.461	<0.001H3	0.03F	<0.05	6.9	0.0019	2.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		17-Feb-09	N	2041	2044	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 8	26-Aug-08	FD	2041	2044	150D2	2.54	<0.001	<0.5D2	<0.3D2	104	0.0655B7	11.8	0.01	123	0.0004	0.005	<0.03	<0.3D2
		2-Sep-08	FD	2041	2044	95.9	1.02	<0.001	0.07	<0.05	80	0.0104	9.6	<0.03	10.9	0.0002F	0.0014	<0.03	<0.05
		9-Sep-08	FD	2041	2044	60	1.03	<0.001	0.04	<0.05	62.8	0.0041	9.1	<0.03	2.3	0.0002	0.0014	<0.03	<0.05
		16-Sep-08	FD	2041	2044	35.2	0.868	<0.001	0.05	<0.05	51.8	0.0051	8.1	0.01	1.3	<0.0005	0.0004	<0.03	0.02
		23-Sep-08	FD	2041	2044	20.4	0.752	<0.001	0.04	<0.05	42.1	0.0039	8	<0.03	0.6	0.0001	0.0004	0.007	<0.05
		30-Sep-08	FD	2041	2044	15	0.967	<0.001	0.02	<0.05	37.8	0.0034	6.9	<0.03	0.5	0.0001	0.0003	<0.03	<0.05
		7-Oct-08	FD	2041	2044	13	0.975	<0.001	0.02F	<0.05	32.3	0.0026	5.5	0.01F	0.4F	<0.0005	0.0002F	<0.03	<0.05
		14-Oct-08	FD	2041	2044	10.4	1.07	<0.001	0.02F	<0.05	27.2	0.0022	5	0.02F	0.5F	<0.0005	0.0001F	<0.03	<0.05
		21-Oct-08	FD	2041	2044	7.9	1.05	<0.001	0.02F	<0.05	24.1	0.0022	5.1	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		28-Oct-08	FD	2041	2044	7	1.13	<0.001	0.03F	0.02F	22.8	0.0022	4.9	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		4-Nov-08	FD	2041	2044	6.1	1.19	<0.001	0.02F	<0.05	22.4	0.002	5.1	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	FD	2041	2044	5.3	1.4	<0.001	0.03F	<0.05	21.5	0.0022	4.1	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		18-Nov-08	FD	2041	2044	4.2	1.4	<0.001	0.03F	<0.05	20	0.0026	4.7	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		25-Nov-08	FD	2041	2044	2.7	1.2	<0.001	<0.05	<0.05	16	0.0017	3.5	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	FD	2041	2044	3.4	2.11	<0.001	<0.05	<0.05	18.2	0.0012	4.4	<0.03	<2	<0.0005	0.0001F	<0.03	0.01F
		9-Dec-08	FD	2041	2044	2.4	1.19	<0.001	<0.05	<0.05	15.6	0.0017	3.3	<0.05D1	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	FD	2041	2044	1.7	0.99	<0.001	<0.05	<0.05	12.6	0.0012	2.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	FD	2041	2044	1.5	1.1	--	0.02F	<0.05	12.1	0.0012	2.8	--	<2	<0.0005	<0.0005	--	<0.05
		30-Dec-08	FD	2041	2044	1.9	1.47	--	0.02F	<0.05	12.4	0.0012	3.5	--	<2	<0.0005	<0.0005	--	<0.05
		6-Jan-09	FD	2041	2044	1.6	1.13	--	0.01F	<0.05	13.2	0.0014	2.8	--	<2	<0.0005	<0.0005	--	<0.05
		13-Jan-09	FD	2041	2044	1.4	1.05	<0.001	0.01F	<0.05	11.6	0.0012	2.7	<0.03	<2	<0.0005	<0.0005	0.006F	<0.05
		20-Jan-09	FD	2041	2044	1.4	0.941	--	0.01F	<0.05	11.4	0.0015	3	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	FD	2041	2044	1.2	0.876	--	<0.05	<0.05	9.9	0.0014	2.6	--	<2	<0.0005	<0.0005	--	<0.05
		3-Feb-09	FD	2041	2044	1.2	0.835	--	<0.05	<0.05	10.3	0.0012	2.8	--	<2	<0.0005	<0.0005	--	<0.05
		10-Feb-09	FD	2041	2044	1.1	0.78	<0.001H3	0.03F	<0.05	8.9	0.0016	2.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		17-Feb-09	FD	2041	2044	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-002A	TEST 10	26-Aug-08	N	1154	1156	38D2	2.87D2	<0.001	<1D2	0.2D2	270D2	1.6D2B7	22D2	0.16D2	61D2	0.0009	0.0033	<0.1D2	0.5D2
		2-Sep-08	N	1154	1156	1.8	0.267	<0.001	<0.05	<0.05	23.5	0.314	14	<0.03	1.4F	<0.0005	0.0002F	<0.03	0.03F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 10	9-Sep-08	N	1154	1156	0.6	0.156	<0.001	<0.05	<0.05	12.4	0.134	13.3	0.01	0.4	<0.0005	0.0001	<0.03	0.01
		16-Sep-08	N	1154	1156	0.6	0.186	<0.001	<0.05	<0.05	13	0.0843	13.9	0.01	0.3	<0.0005	0.0001	<0.03	0.03
		23-Sep-08	N	1154	1156	0.2	0.082	<0.001	<0.05	0.01	3.9	0.0234	7.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		30-Sep-08	N	1154	1156	0.3	0.14	<0.001	<0.05	<0.05	5.9	0.0339	11.2	<0.03	<2	<0.0005	0.0001	<0.03	<0.05
		7-Oct-08	N	1154	1156	0.2F	0.151	<0.001	<0.05	<0.05	5.4	0.0255	11	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		14-Oct-08	N	1154	1156	0.3F	0.122	<0.001	<0.05	0.01F	4.4	0.0178	9.3	0.01F	<2	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	1154	1156	0.2F	0.087	<0.001	<0.05	<0.05	2.7	0.0122B7	7.3	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		28-Oct-08	N	1154	1156	0.2F	0.109	<0.001	<0.05	0.02F	3.7	0.0165	9.1	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	1154	1156	0.4F	0.186	<0.001	<0.05	<0.05	5.9	0.0214	14.2	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
	TEST 10S	11-Nov-08	N	1154	1156	0.5F	0.27	<0.001	<0.05	0.02F	5.9	0.0625	6.9	<0.03	<2	<0.0005	0.0001F	<0.03	0.01F
		18-Nov-08	N	1154	1156	<1	0.087	<0.001	<0.05	<0.05	1.9F	0.0198	2.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1154	1156	<1	0.068	<0.001	<0.05	<0.05	1.5F	0.0146	1.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1154	1156	<1	0.063	<0.001	<0.05	<0.05	1.2F	0.0106	1.2F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1154	1156	<1	0.068	<0.001	<0.05	<0.05	0.9F	0.0117	1.6F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1154	1156	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1154	1156	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 11	26-Aug-08	N	1414.6	1417	31D2	4.58D2	<0.001	<1D2	0.8D2	159D2	0.0212	9D2	0.11D2	31D2	0.0015	0.0059	<0.1D2	0.4D2
		2-Sep-08	N	1414.6	1417	3.3	1.67	<0.001	<0.05	0.23	24.7	0.0081	18.3	<0.03	1.1F	0.0003F	0.0005	<0.03	0.07
		9-Sep-08	N	1414.6	1417	2.3	1.1	<0.001	<0.05	0.2	14.1	0.0117	24.8	<0.03M2	0.6	0.0002	0.0008	<0.03	0.05
		16-Sep-08	N	1414.6	1417	1D2	0.68D2	<0.001	0.02	0.12D2	12.8	0.0147	30.6	0.01	0.5	<0.0005	0.0011	<0.1D2	0.02
		23-Sep-08	N	1414.6	1417	0.7	0.5	<0.001	0.01	0.13D1	8.2	0.016	31.3	<0.03M2	<2	0.0001	0.0018	<0.1D1	<0.3D1
		30-Sep-08	N	1414.6	1417	0.3	0.409	<0.001	<0.05	0.05	6.2	0.0254	21.2	<0.03M2	<2	<0.0005	0.0018	<0.03	<0.05
		7-Oct-08	N	1414.6	1417	<5D1	0.39D1	<0.001	<0.3D1	<0.3D1	5FD1	0.018	24D1	<0.1D1	<8D1	<0.0005	0.002	<0.1D1	<0.3D1
		14-Oct-08	N	1414.6	1417	<1	0.466	<0.001	<0.05	0.05	4.2	0.0122	19.9	0.03FD1	<2	<0.0005	0.0011	<0.03	<0.05
		21-Oct-08	N	1414.6	1417	<1	0.491	<0.001	<0.05	0.04F	2.9	0.008B7	14.6M1	<0.03M2	<2	<0.0005	0.0007	<0.03	<0.1D1
		28-Oct-08	N	1414.6	1417	<2D2	0.551	<0.001	0.03FD2	0.1D2	3.9D2	0.0177	19.7D2	<0.05D2	<3D2	<0.0005	0.0015	0.007F	<0.1D2
		4-Nov-08	N	1414.6	1417	<1	0.255	<0.001	0.01F	0.04FD2	4.3	0.0148	23.7M1	<0.03M2	<2	<0.0005	0.0016	<0.03	<0.1D2
		11-Nov-08	N	1414.6	1417	<1	1.16	<0.001	<0.05M1	0.09	4.4	0.0067	15	<0.03M2	<2	<0.0005	0.0008	<0.03	<0.05
		18-Nov-08	N	1414.6	1417	<1	0.408	<0.001	<0.05	0.03F	4	0.0076M1	12.6M1	<0.03M2	<2	<0.0005	0.0005	<0.03	<0.05
		25-Nov-08	N	1414.6	1417	<1	0.147M1	<0.001	<0.05	0.02FM1	1.9F	0.0077	5.2M1	<0.03M2	<2	<0.0005	0.0005	<0.03M1	<0.05M1
		2-Dec-08	N	1414.6	1417	<1	0.157	<0.001	<0.05	0.02F	2.7	0.0112	9.5	<0.03	<2	<0.0005	0.001	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 11	9-Dec-08	N	1414.6	1417	<1	0.064	<0.001	<0.05	0.02F	1.4F	0.0095B3	6.2M1	<0.05D1M2	<2	<0.0005	0.0007	<0.03	<0.1D1
		16-Dec-08	N	1414.6	1417	<1	0.017F	<0.001	<0.05	<0.05	1.1F	0.0072	4	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		23-Dec-08	N	1414.6	1417	<1	0.026F	--	0.02F	0.02F	1F	0.0095	3.6	--	<2	<0.0005	0.0005	--	<0.05
		30-Dec-08	N	1414.6	1417	<1	0.015F	--	0.01F	0.02F	<2	0.0095	4.5	--	<2	<0.0005	0.0005	--	0.2
		6-Jan-09	N	1414.6	1417	<1	0.025F	--	<0.05	0.02F	0.8F	0.0134	5.2	--	<2	<0.0005	0.0006	--	0.11
		13-Jan-09	N	1414.6	1417	<1	0.03FD1	<0.001	<0.1D1	0.03F	<3D1	0.0178	4.7D1	<0.03	<3D1	<0.0005	0.0009	<0.03	<0.1D1
		20-Jan-09	N	1414.6	1417	<1	0.023F	--	<0.05	0.03FD1	1.1F	0.0175	7.8	--	<2	<0.0005	0.0009	--	0.02F
		27-Jan-09	N	1414.6	1417	<1	0.03FD1	--	<0.05	<0.1D1	1.7F	0.0261	10.9	--	<2	<0.0005	0.001	--	0.03FD1
		3-Feb-09	N	1414.6	1417	<1	0.022F	--	<0.1D1	0.02FD1	1.8F	0.0223	9.6	--	<2	<0.0005	0.0007	--	0.01F
		10-Feb-09	N	1414.6	1417	<1	0.056	<0.001H3	0.03F	0.05	1.3F	0.027	6.8	<0.03	<2	<0.0005	0.0006	<0.03	0.12
		17-Feb-09	N	1414.6	1417	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 12	26-Aug-08	N	1454	1457	23D1	2D1M1	<0.001	<0.3D1	0.48D1	122D1	0.0082B7	3FD1M1	0.28D1	36D1	0.0039	0.0011	<0.1D1M1	0.37D1
		2-Sep-08	N	1454	1457	1.1	0.179	<0.001	<0.05	0.02F	24	0.0016	11.8	<0.03M2	1.7F	0.0007	<0.0005	<0.03	0.02F
		9-Sep-08	N	1454	1457	0.6	0.106	<0.001	<0.05	0.01	8.9	0.0011	6.3	0.02	0.5	0.0003	<0.0005	<0.03	<0.05
		16-Sep-08	N	1454	1457	0.5	0.089	<0.001	<0.05	0.02	5.9	0.0009	4	<0.03M2	<2	0.0002	<0.0005	<0.03	0.01
		23-Sep-08	N	1454	1457	0.7	0.089	<0.001	<0.05	0.03	6	0.0013	4.6	<0.03	<2	0.0003	<0.0005	<0.03	<0.05
		30-Sep-08	N	1454	1457	0.6	0.059	<0.001	<0.05	0.01	4.4	0.0014	2.8	<0.03	<2	0.0002	<0.0005	<0.03	<0.05
		7-Oct-08	N	1454	1457	0.4F	0.034	<0.001	<0.05	0.02F	3.2	0.0012	2.2	<0.03	<2	0.0002F	<0.0005	<0.03	<0.05
		14-Oct-08	N	1454	1457	0.4F	0.018F	<0.001	<0.05	0.02F	2.4	0.0007	1.6F	<0.03M2	<2	0.0001F	<0.0005	<0.03	<0.05
		21-Oct-08	N	1454	1457	0.3F	0.014F	<0.001	<0.05	<0.05	1.4F	0.0005	1.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1454	1457	0.3F	0.014F	<0.001	<0.05	0.02F	1.3F	0.0006	1.6FM1	<0.03M2	<2	<0.0005	<0.0005	0.007F	<0.05
		4-Nov-08	N	1454	1457	0.3F	0.013F	<0.001	<0.05	<0.05	1.5F	0.0005	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	N	1454	1457	0.2F	0.012F	<0.001	<0.05	0.01F	1.1F	0.0004F	1.6F	<0.03	<2	<0.0005	<0.0005	<0.03	0.01F
		18-Nov-08	N	1454	1457	0.2F	0.013F	<0.001	<0.05	<0.05	1.1F	0.0003F	2.1	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1454	1457	0.2F	0.01F	<0.001	<0.05	<0.05	1.4F	0.0003FM1	1.6F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1454	1457	<1	0.011F	<0.001	<0.05	<0.05	0.9F	0.0002F	1F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1454	1457	<1	0.008F	<0.001	<0.05	<0.05	0.8F	0.0003F	1.3F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1454	1457	<1	<0.03	<0.001	<0.05	<0.05	0.8F	0.0001F	1F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	N	1454	1457	<1	0.012F	--	0.01F	<0.05	0.9F	<0.0005	1.2F	--	<2	<0.0005	<0.0005	--	<0.05
		30-Dec-08	N	1454	1457	<1	<0.03	--	<0.05	<0.05V1	0.3F	0.0002F	1.3F	--	<2	<0.0005	<0.0005	--	0.01F
		6-Jan-09	N	1454	1457	<1	0.011F	--	<0.05	<0.05	0.6F	0.0001F	1.1F	--	<2	<0.0005	<0.0005	--	0.01F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 12	13-Jan-09	N	1454	1457	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0001F	1.3F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	1454	1457	<1	0.005F	--	<0.05	<0.05	0.4F	0.0002F	1F	--	<2	<0.0005	<0.0005	--	0.01F
		27-Jan-09	N	1454	1457	<1	0.009F	--	<0.05	<0.05	0.5F	<0.0005	1.1F	--	<2	<0.0005	<0.0005	--	<0.05
		3-Feb-09	N	1454	1457	<1	0.006F	--	<0.05	<0.05	<2	<0.0005	0.9F	--	<2	<0.0005	<0.0005	--	0.02F
		10-Feb-09	N	1454	1457	<1	0.007F	--	<0.05	<0.05	0.7F	<0.0005	1.3F	--	<2	<0.0005	<0.0005	--	<0.05
		17-Feb-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1454	1457	<1	0.017F	<0.001	<0.05	<0.05	0.8F	0.0001F	1.8F	<0.03	<2	<0.0005	<0.0005	<0.03	0.02F
		17-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1454	1457	<1	0.02F	<0.001	<0.05	<0.05	0.7F	<0.0005	2.2	<0.03	<2	<0.0005	<0.0005	<0.03	0.02F
		14-Apr-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1454	1457	<1	0.023F	<0.001	<0.05	<0.05	0.5F	0.0001F	1.6F	<0.03	<2	<0.0005	<0.0005	<0.03	0.02F
		12-May-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1454	1457	<1	0.087	<0.001	<0.05	0.03F	1.2F	0.0004F	3.9	<0.03	<2	<0.0005	<0.0005	<0.03	0.03F
		9-Jun-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1454	1457	<1	0.342	<0.001	<0.05	0.17	1.8F	0.0028	7.5	0.01F	<2	<0.0005	0.0004F	<0.1D1	0.38D1
		7-Jul-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1454	1457	<10D1	0.14FD1	<0.001	<0.5D1	0.1FD1	<20D1	0.0073	5D1	<0.3D1	<20D1	0.0002F	0.0018	<0.3D1	0.1FD1
		4-Aug-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 12	18-Aug-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1454	1457	<5D1	0.15D1	<0.001	<0.3D1	0.15	<8D1	0.0098	8FD1	0.2FD1	<8D1	<0.0005	0.0025	<0.1D1	0.2FD1
		1-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1454	1457	<10D1	<0.3D1	<0.001	<0.5D1	<0.5D1	<20D1	0.01D1	7FD1	<0.3D1	<20D1	<0.005D1	0.002FD1	<0.3D1	0.2FD1
		29-Sep-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1454	1457	<2D1	<0.1D1	<0.001	0.01F	0.05	<8D1	0.006	4.1D1	<0.1D1	0.8FM3	0.0001F	0.0007	<0.1D1	0.08FD1
		27-Oct-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1454	1457	<1	0.008F	<0.001	0.01F	0.09	0.7F	0.0065	2.6	<0.1D1	<2	0.0001F	0.0008	<0.1D1	0.08
		24-Nov-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		1-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Dec-09	N	1454	1457	<1	<0.03	<0.001	0.02F	<0.3D1	0.7F	0.0054	2.5	<0.03	0.8F	<0.0005	0.0005	<0.1D1	0.03F
		22-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		29-Dec-09	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-Jan-10	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12-Jan-10	N	1454	1457	<5D1	<0.03	<0.001	<0.05	0.02F	0.3F	0.0055	2.2	<0.03M2	<2	<0.0005	0.0004F	<0.03	0.06
		19-Jan-10	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-Jan-10	N	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 13	26-Aug-08	FD	1454	1457	21D1	1.82D1	<0.001	<0.3D1	0.42D1	118D1	0.007B7	8FD1	0.08FD1	35D1	0.0036	0.001	<0.1D1	0.32D1
		2-Sep-08	FD	1454	1457	1	0.164	<0.001	<0.05	0.02F	19.1	0.0011	8.2	<0.03	2	0.0006	<0.0005	<0.03	0.01F
		9-Sep-08	FD	1454	1457	0.6	0.103	<0.001	<0.05	0.01	9.2	0.0005	3.6	0.01	0.7	0.0003	<0.0005	<0.03	<0.05
		16-Sep-08	FD	1454	1457	0.6	0.093	<0.001	<0.05	0.02	7.8	0.0003	2.5	<0.03	<2	0.0001	<0.0005	<0.03	0.01
		23-Sep-08	FD	1454	1457	0.4	0.038	<0.001	<0.05	0.02	3.6	0.0003	2	<0.03	<2	0.0001	<0.0005	<0.03	<0.05
		30-Sep-08	FD	1454	1457	0.8	0.07	<0.001	<0.05	0.01	6.6	0.0004	2.7	<0.03	<2	0.0002	<0.0005	<0.03	<0.05
		7-Oct-08	FD	1454	1457	0.5F	0.036	<0.001	<0.05	<0.05	4.1	0.0005	2.2	<0.03	<2	0.0001F	<0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 13	14-Oct-08	FD	1454	1457	0.4F	0.016F	<0.001	<0.05	0.01F	2.4	0.0002F	1.5F	0.01F	<2	0.0001F	<0.0005	<0.03	<0.05
		21-Oct-08	FD	1454	1457	0.4F	0.019F	<0.001	<0.05	<0.05	2	0.0002F	1.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	FD	1454	1457	0.3F	0.016F	<0.001	<0.05	0.03F	1.8F	0.0002F	1.3F	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	FD	1454	1457	<1	0.01F	<0.001	<0.05	<0.05	1.1F	0.0002F	1.2F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	FD	1454	1457	0.3F	0.015F	<0.001	<0.05	<0.05	1.3F	0.0002FM1	1.2F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	FD	1454	1457	0.2F	0.016F	<0.001	0.02F	<0.05	1.3F	0.0002F	1.3F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	FD	1454	1457	0.2F	0.009F	<0.001	<0.05	<0.05	1.5F	0.0001F	1F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	FD	1454	1457	0.2F	<0.03	<0.001	<0.05	<0.05	1.3F	0.0002F	1.1F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	FD	1454	1457	<1	0.008F	<0.001	<0.05	<0.05	0.9F	0.0002F	1.2F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	FD	1454	1457	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0001F	0.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	FD	1454	1457	<1	0.013F	--	<0.05	<0.05	0.7F	<0.0005	0.8F	--	<2	<0.0005	<0.0005	--	<0.05
		30-Dec-08	FD	1454	1457	0.2F	0.006F	--	<0.05	<0.05V1	0.5F	0.0002F	1.2F	--	<2	<0.0005	<0.0005	--	0.01F
		6-Jan-09	FD	1454	1457	<1	0.013F	--	<0.05	<0.05	1.1F	0.0003F	1.2F	--	<2	<0.0005	<0.0005	--	0.11
		13-Jan-09	FD	1454	1457	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0002F	1.4F	<0.03	<2	<0.0005	<0.0005	<0.03	0.03F
		20-Jan-09	FD	1454	1457	<1	0.011F	--	<0.05	0.01F	0.9F	0.0003F	1.6F	--	<2	0.0001F	<0.0005	--	0.03F
		27-Jan-09	FD	1454	1457	0.2F	0.024F	--	<0.05	<0.05	1.4F	<0.0005	2.2	--	<2	<0.0005	<0.0005	--	0.03F
		3-Feb-09	FD	1454	1457	<1	0.011F	--	<0.05	<0.05	0.6F	<0.0005	1.2F	--	<2	<0.0005	<0.0005	--	0.02F
		10-Feb-09	FD	1454	1457	<1	0.01F	<0.001H3	<0.05	<0.05	0.6F	0.0002F	1F	<0.03	<2	0.0002F	<0.0005	<0.03	0.02F
		17-Feb-09	FD	1454	1457	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 14	26-Aug-08	N	1927	1930	170D1	15.2	<0.001	<0.1D1	0.13D1	108	0.0645B7	7.7	0.02F	339	0.0003F	0.0008	<0.03	0.1D1
		2-Sep-08	N	1927	1930	38.6	3.54	<0.001	<0.05	<0.05	66.8	0.0158	12.6	<0.03	51.5	0.0002F	0.0005	<0.03	<0.05
		9-Sep-08	N	1927	1930	15.1	2.25	<0.001	<0.05	<0.05	43	0.0047	12	0.01	13.1	0.0001	0.0003	<0.03	<0.05
		16-Sep-08	N	1927	1930	10.3	1.92	<0.001	<0.05	<0.05	39.2	0.0033	12.1	<0.03	5.8	<0.0005	<0.0005	<0.03	0.01
		23-Sep-08	N	1927	1930	6.4	1.72	<0.001	0.02	<0.05	32.1	0.003	13	<0.03	2.7	<0.0005	0.0001	<0.03	<0.05
		30-Sep-08	N	1927	1930	5.1	1.89	<0.001	<0.05	<0.05	30.5	0.0029	12.6	<0.03	2	<0.0005	<0.0005	<0.03	0.01
		7-Oct-08	N	1927	1930	4	1.92	<0.001	<0.05	<0.05	25.5	0.0033	11.6	<0.03	1.5F	<0.0005	<0.0005	<0.03	0.03F
		14-Oct-08	N	1927	1930	3.5	2.13	<0.001	<0.05	<0.05	23.4	0.003	11.9	0.02F	1.5F	<0.0005	<0.0005	<0.03	0.04F
		21-Oct-08	N	1927	1930	2.8	1.78	<0.001	<0.05	<0.05	22.6	0.0029	12.4	<0.03	1F	<0.0005	0.0001F	<0.03	0.04F
		28-Oct-08	N	1927	1930	2.3	1.48	<0.001	<0.05	<0.05	19.5	0.0031	11.2	<0.03	0.9F	<0.0005	0.0001F	<0.03	0.04F
		4-Nov-08	N	1927	1930	2.4	1.6	<0.001	<0.05	<0.05	21.5	0.004	14.3	<0.03	0.9F	<0.0005	<0.0005	<0.03	0.08
		11-Nov-08	N	1927	1930	1.9	1.33	<0.001	<0.05	<0.05	18	0.0042	11.6	<0.03	0.8F	<0.0005	<0.0005	<0.03	0.07

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 14	18-Nov-08	N	1927	1930	1.9	1.21	<0.001	0.02F	<0.05	19.5	0.0043	13.3	<0.03	0.8F	<0.0005	<0.0005	<0.03	0.08
		25-Nov-08	N	1927	1930	1.7	1.17	<0.001	<0.05	<0.05	18.5	0.0043	11.5	<0.03	0.8F	<0.0005	0.0001F	<0.03	0.1
		2-Dec-08	N	1927	1930	1.6	1.01	<0.001	<0.05	<0.05	16.6	0.004	10.8	<0.03	0.6F	<0.0005	0.0002F	<0.03	0.12
		9-Dec-08	N	1927	1930	1.4	0.915	<0.001	<0.05	<0.05	17.4	0.0042B3	11.8	<0.03	0.7F	<0.0005	<0.0005	<0.03	0.09
		16-Dec-08	N	1927	1930	0.9F	0.689	<0.001	<0.05	<0.05	15.4	0.0041	9.7	<0.03	0.4F	<0.0005	<0.0005	<0.03	0.08
		23-Dec-08	N	1927	1930	0.8F	0.638	--	0.01F	<0.05	15.7	0.0044	9.7	--	0.5F	<0.0005	<0.0005	--	0.09
		30-Dec-08	N	1927	1930	0.9F	0.571	--	<0.05	0.01F	13.7	0.0038	10.5	--	0.6F	<0.0005	<0.0005	--	0.09
		6-Jan-09	N	1927	1930	0.7F	0.489	--	<0.05	0.02F	14.4	0.0043	10.6	--	0.5F	<0.0005	<0.0005	--	0.09
		13-Jan-09	N	1927	1930	0.6F	0.438	<0.001	<0.05	<0.05	13.2	0.0043	8.9	<0.03	0.4F	<0.0005	0.0001F	<0.03	0.05
		20-Jan-09	N	1927	1930	0.8F	0.392	--	<0.05	<0.05	13.2	0.0043	9.6	--	0.5F	<0.0005	<0.0005	--	0.08
		27-Jan-09	N	1927	1930	0.7F	0.363	--	<0.05	<0.05	12.7	0.0055	8.9	--	0.5F	<0.0005	<0.0005	--	0.07
		3-Feb-09	N	1927	1930	0.8F	0.379	--	<0.05	<0.05	13.3	0.0039	9.6	--	0.5F	<0.0005	0.0001F	--	0.09
		10-Feb-09	N	1927	1930	0.7F	0.368	--	<0.05	<0.05	12.2	0.0042	10.4	--	0.5F	<0.0005	<0.0005	--	0.07
		17-Feb-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1927	1930	0.6F	0.3	<0.001	<0.05	<0.05	12.4	0.0046	9.1	<0.03	0.6F	0.0001F	0.0003F	<0.03	0.1
		17-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1927	1930	0.6F	0.213	<0.001	0.01F	<0.05	11.8	0.006B7	9.4	<0.03	0.5F	<0.0005	0.0005	<0.03	0.08
		14-Apr-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1927	1930	0.8F	0.21	<0.001	<0.05	<0.05	12.2	0.006	8.3	<0.03	0.5F	<0.0005	0.0003F	<0.03	0.08
		12-May-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1927	1930	0.7F	0.187	<0.001	<0.05	<0.05	12.2	0.0075	9.4	<0.03	0.4F	<0.0005	0.0003F	<0.03	0.03F
		9-Jun-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-002A	TEST 14	23-Jun-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1927	1930	0.8F	0.176	<0.001	<0.05	0.01F	11.2	0.0111B1	8.1	<0.03	0.6F	<0.0005	0.0003F	<0.03	0.09
		7-Jul-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1927	1930	1.9	0.281	<0.001	<0.05	0.02F	14.5	0.0166	12.7	<0.03	1.1F	0.0001F	0.0007	<0.03	0.11
		4-Aug-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1927	1930	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1927	1930	2.1	0.262	<0.001	<0.05	0.04F	15.4	0.0166	17	<0.03	1.1F	<0.0005	0.0008	<0.03	0.1
	TEST 9	26-Aug-08	N	888	891	<10D2	<0.03	<0.001	<0.5D2	<0.3D2	2.6	0.0452B7	1.9	0.02	2.9	<0.0005	<0.0005	<0.03	<0.3D2
		2-Sep-08	N	888	891	0.4F	<0.03	<0.001	0.09	<0.05	6.3	0.339	3.5	<0.03	19.1	<0.0005	0.0002F	<0.03	<0.05
		9-Sep-08	N	888	891	<1	<0.03	<0.001	0.05	<0.05	4	0.177	2.2	<0.03	12.1	<0.0005	0.0006	<0.03	<0.05
		16-Sep-08	N	888	891	<1	<0.03	<0.001	0.03	<0.05	1.8	0.0428	1.3	0.01	5.5	<0.0005	<0.0005	<0.03	0.01
		23-Sep-08	N	888	891	<1	<0.03	<0.001	0.03	<0.05	4	0.0784	3.5	<0.03	9.5	<0.0005	0.0002	<0.03	<0.05
		30-Sep-08	N	888	891	<1	<0.03	<0.001	<0.05	<0.05	2.4	0.0328	2.8	<0.03	3.6	<0.0005	<0.0005	<0.03	<0.05
		7-Oct-08	N	888	891	<1	<0.03	<0.001	<0.05	<0.05	1.2F	0.014	0.9F	<0.03	1.7F	<0.0005	<0.0005	<0.03	<0.05
		14-Oct-08	N	888	891	<1	<0.03	<0.001	0.01F	<0.05	1.4F	0.021	1.1F	0.01F	2.9	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	888	891	<1	<0.03	<0.001	0.02F	<0.05	1.7F	0.0335B7	1.3F	<0.03	4.4	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	888	891	<1	<0.03	<0.001	0.03F	0.01F	1.7F	0.0485	1.7F	<0.03	5.1	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	888	891	<1	<0.03	<0.001	0.03F	<0.05	3.3	0.076	3	<0.03	10.2	<0.0005	0.0001F	<0.03	<0.05
	TEST 9S	11-Nov-08	N	888	891	<1	<0.03	<0.001	0.05	<0.05	11.1	0.149	9	<0.03	23.1	<0.0005	0.0006	<0.03	<0.05
		18-Nov-08	N	888	891	<1	<0.03	<0.001	0.01F	<0.05	2.4	0.0208	2.3	<0.03	3.4	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	888	891	<1	<0.03	<0.001	<0.05	<0.05	1.9F	0.0163	1.3F	<0.03	2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	888	891	<1	<0.03	<0.001	<0.05	<0.05	2	0.0153	1.3F	<0.03	2.2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	888	891	<1	<0.03	<0.001	<0.05	<0.05	0.8F	0.0097B3	0.9F	<0.03	1.3F	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	888	891	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	888	891	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-005I	TEST 15	26-Aug-08	N	1317.28	1320.28	0.8F	0.014F	<0.001	0.15	<0.05	3.8	0.0333	8.3	0.01F	104	<0.0005	0.0006	<0.03	<0.05
		2-Sep-08	N	1317.28	1320.28	0.8F	0.007F	<0.001	0.12	<0.05	3.5	0.023	6.5	<0.03	100	<0.0005	0.0004F	0.006F	<0.05
		9-Sep-08	N	1317.28	1320.28	0.8	<0.03	<0.001	0.11	<0.05	3.1	0.0148	6.3	0.01	87.2	<0.0005	0.0003	0.007	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 15	16-Sep-08	N	1317.28	1320.28	0.7	<0.03	<0.001	0.08	<0.05	2.8	0.0089	5.3	<0.03	75	<0.0005	0.0001	0.009	<0.05
		23-Sep-08	N	1317.28	1320.28	0.6	<0.03	<0.001	0.07	<0.05	2.7	0.0076	4.8	<0.03	58.9	<0.0005	0.0002	<0.03	<0.05
		30-Sep-08	N	1317.28	1320.28	0.5	<0.03	<0.001	0.05	<0.05	3.4	0.007	5.5	<0.03	60.2	<0.0005	0.0001	0.006	<0.05
		7-Oct-08	N	1317.28	1320.28	0.5F	<0.03	<0.001	0.05	<0.05	2.8	0.0054	4.8	<0.03	58.9	<0.0005	0.0001F	<0.03	<0.05
		14-Oct-08	N	1317.28	1320.28	0.5F	<0.03	<0.001	0.05	<0.05	2.7	0.0038	4.9	<0.03	47.7	<0.0005	0.0001F	0.005F	<0.05
		21-Oct-08	N	1317.28	1320.28	0.5F	<0.03	<0.001	0.04F	<0.05	2.7	0.0036	4.6	<0.03	41.6	<0.0005	0.0001F	<0.03	<0.05
		28-Oct-08	N	1317.28	1320.28	0.4F	0.008F	<0.001	0.09	<0.05	2.6	0.0031	4.1	<0.03	37.8	<0.0005	<0.0005	0.01F	<0.05
		4-Nov-08	N	1317.28	1320.28	0.4F	<0.03	<0.001	0.03F	<0.05	2.8	0.0025	4.6	<0.03	36.4	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	N	1317.28	1320.28	0.4F	<0.03	<0.001	0.04F	<0.05	2.4	0.0027	4	<0.03	29.9	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	1317.28	1320.28	0.5F	<0.03	<0.001	0.04F	<0.05	2.7	0.0027	4.4	<0.03	29.5	<0.0005	<0.0005	0.013F	<0.05
		25-Nov-08	N	1317.28	1320.28	0.4F	<0.03	<0.001	<0.05	<0.05	2	0.0019	2.7	<0.03	23.2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1317.28	1320.28	0.4F	<0.03	<0.001	<0.05	<0.05	2.4	0.0017	3.4	<0.03	24	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1317.28	1320.28	<1	<0.03	<0.001	<0.05	<0.05	1.7F	0.0015	2.8	<0.03	19.5	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1317.28	1320.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1317.28	1320.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 16	26-Aug-08	N	1428.18	1431.18	2.9D1	0.09D1	<0.001	0.39D1	0.02FD1	21.2D1	0.244B7	27.7D1	0.03FD1	283D1	<0.0005	0.0035	<0.05D1	<0.1D1
		2-Sep-08	N	1428.18	1431.18	<1	<0.03	<0.001	0.05	<0.05	2.3	0.0273	11	<0.03	10.1	<0.0005	<0.0005	<0.03	<0.05
		9-Sep-08	N	1428.18	1431.18	<1	0.005	<0.001	0.04	<0.05	1.1	0.0259	3.8	0.01	6.2	<0.0005	<0.0005	<0.03	<0.05
		16-Sep-08	N	1428.18	1431.18	<1	<0.03	<0.001	0.02	<0.05	0.8	0.0119	2.8	<0.03	2.4	<0.0005	<0.0005	<0.03	<0.05
		23-Sep-08	N	1428.18	1431.18	<1	<0.03	<0.001	0.01	<0.05	<2	0.0041	0.9	<0.03	0.5	<0.0005	<0.0005	<0.03	<0.05
		30-Sep-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0028	0.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		7-Oct-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0025	0.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		14-Oct-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0015	0.5F	0.02F	<2	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	1428.18	1431.18	<1	<0.03	<0.001	0.07	<0.05	0.8F	0.0484B7	2.6	<0.03	8	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1428.18	1431.18	<1	0.007F	<0.001	0.07	0.01F	0.4F	0.026	1.2F	<0.03	3.5	<0.0005	<0.0005	0.006F	<0.05
		4-Nov-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	<2	0.002	0.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
	TEST 16S	11-Nov-08	N	1428.18	1431.18	<1	0.011F	<0.001	0.03F	<0.05	2.1	0.0762	7	<0.03	3.1	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	1428.18	1431.18	<1	0.008F	<0.001	0.02F	<0.05	0.7F	0.0167	2.3	<0.03	0.8F	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	0.5F	0.0113	1.3F	<0.03	0.5F	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	0.8F	0.0103	1.7F	<0.03	0.5F	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0102B3	1.8F	<0.03	0.5F	<0.0005	<0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 16S	16-Dec-08	N	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 17	26-Aug-08	FD	1428.18	1431.18	2.7D1	0.06D1	<0.001M2	0.31D1	<0.1D1	15.7D1	0.196B7	16.1D1	0.02FD1	247D1	<0.0005	0.0026	<0.05D1	<0.1D1
		2-Sep-08	FD	1428.18	1431.18	<1	0.007F	<0.001	0.11	<0.05	3.3	0.0459	12.5	<0.03	22.3	<0.0005	<0.0005	<0.03	<0.05
		9-Sep-08	FD	1428.18	1431.18	<1	<0.03	<0.001	0.05	<0.05	1.3	0.0348	4.7	0.01	7.1	<0.0005	<0.0005	<0.03	<0.05
		16-Sep-08	FD	1428.18	1431.18	<1	<0.03L1	<0.001	0.06	<0.05	1.4	0.0338	6.1	<0.03	6.8	<0.0005	<0.0005	<0.03	<0.05
		23-Sep-08	FD	1428.18	1431.18	<1	<0.03	<0.001	0.03	<0.05	0.6	0.0195	3.2	<0.03	2.9	<0.0005	<0.0005	<0.03	<0.05
		30-Sep-08	FD	1428.18	1431.18	<1	0.005	<0.001	0.03	<0.05	1.6	0.0609	7.9	<0.03	5.8	<0.0005	<0.0005	0.006	<0.05
		7-Oct-08	FD	1428.18	1431.18	<1	<0.03	<0.001	0.03F	<0.05	1.9F	0.0518	9.9	<0.03	4.4	<0.0005	<0.0005	<0.03	<0.05
		14-Oct-08	FD	1428.18	1431.18	<1	<0.03	<0.001	0.01F	<0.05	2.1	0.0462	10.2	<0.03	2.7	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	FD	1428.18	1431.18	<1	<0.03	<0.001	0.02F	<0.05	1.5F	0.0295B7	6.9	<0.03	1.3F	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	FD	1428.18	1431.18	<2D2	0.01F	<0.001	0.02F	0.03F	1.3FD2	0.0321	5.2	<0.05D2	0.8FD2	<0.0005	<0.0005	0.005F	<0.05
		4-Nov-08	FD	1428.18	1431.18	<1	0.006F	<0.001	0.01F	<0.05	1.1F	0.0218	6.1	<0.03	0.7F	<0.0005	<0.0005	<0.03	<0.05
	TEST 17S	11-Nov-08	FD	1428.18	1431.18	<1	0.022F	<0.001	0.02F	<0.05	1.5F	0.05D2	7.2	<0.03	0.4F	<0.005D2	<0.005D2	<0.03	<0.05
		18-Nov-08	FD	1428.18	1431.18	<1	0.01F	<0.001	0.02F	<0.05	0.8F	0.0254	3.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	FD	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	0.9F	0.015	1.9F	<0.03	0.6F	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	FD	1428.18	1431.18	<1	<0.03	<0.001	<0.05	<0.05	0.9F	0.0191	4	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	FD	1428.18	1431.18	<1	0.006F	<0.001	<0.05	<0.05	0.6F	0.0195B3	5.1	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	FD	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	FD	1428.18	1431.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 18	26-Aug-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	3.4	0.0034	2.1	0.01F	1.8F	<0.0005	0.0001F	<0.03	<0.05
		2-Sep-08	N	1499	1502	1.4	0.017F	0.0003F	0.09	<0.05	43.1	0.0307	4.3	<0.03	42.6	<0.0005	0.0001F	<0.03	<0.05
		9-Sep-08	N	1499	1502	<1	<0.03	<0.001	0.04	<0.05	11.7	0.0079	4.2	<0.03	7.4	<0.0005	<0.0005	<0.03	<0.05
		16-Sep-08	N	1499	1502	<1	<0.03L1	<0.001	0.05	<0.05	9.8	0.0084	2.1	<0.03	7.4	<0.0005	<0.0005	<0.03	<0.05
		23-Sep-08	N	1499	1502	<1	<0.03	<0.001	0.03	<0.05	4.8	0.0045	1.3	<0.03	3.3	<0.0005	<0.0005	<0.03	<0.05
		30-Sep-08	N	1499	1502	<1	<0.03	<0.001	0.05	<0.05	10.6	0.0121	2.8	<0.03	7.2	<0.0005	<0.0005	<0.03	<0.05
		7-Oct-08	N	1499	1502	<1	<0.03	<0.001	0.01F	<0.05	7.5	0.0085	2.7	<0.03	4	<0.0005	<0.0005	<0.03	<0.05
		14-Oct-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	6.3	0.007	3.1	0.01F	3	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	7.3	0.0103B7	4.2	<0.03	3.3	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1499	1502	<1	<0.03	<0.001	0.02F	0.01F	5.9	0.0104	3.7	<0.03	2.3	<0.0005	<0.0005	0.008F	<0.05
		4-Nov-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	4.4	0.0078	3.5	<0.03	1.5F	<0.0005	<0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 18S	11-Nov-08	N	1499	1502	<1	<0.03	<0.001	0.02F	<0.05	9.4	0.0203D2	11.7	<0.03	2.9	<0.003D2	<0.003D2	<0.03	<0.05
		18-Nov-08	N	1499	1502	<1	<0.03	<0.001	0.02F	<0.05	3.4	0.0053	3.5	<0.03	0.8F	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	4.1	0.0062	3.2	<0.03	0.9F	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	5.6	0.0068	4.7	<0.03	0.9F	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1499	1502	<1	<0.03	<0.001	<0.05	<0.05	3.1	0.0046B3	2.8	<0.03	0.7F	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1499	1502	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1499	1502	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 19	26-Aug-08	N	1586.46	1589.46	2.4	0.046	<0.001	0.06	<0.05	56.3	0.166B7	3.7	<0.03	47.4	<0.0005	<0.0005	<0.03	<0.05
		2-Sep-08	N	1586.46	1589.46	0.4F	0.007F	<0.001	0.08	<0.05	28.2	0.0626	2.9	<0.03	19.2	<0.0005	0.0003F	<0.03	<0.05
		9-Sep-08	N	1586.46	1589.46	<1	<0.03	<0.001	0.04	<0.05	15.2	0.0341	3.5	0.02	6.8	<0.0005	<0.0005	<0.03	<0.05
		16-Sep-08	N	1586.46	1589.46	<1	<0.03L1	<0.001	0.03	<0.05	10.4	0.0188	2.2	<0.03	3.9	<0.0005	<0.0005	0.005	<0.05
		23-Sep-08	N	1586.46	1589.46	<1	<0.03	<0.001	0.03	<0.05	7.1	0.0191	2.6	<0.03	2.4	<0.0005	<0.0005	<0.03	<0.05
		30-Sep-08	N	1586.46	1589.46	<1	<0.03	<0.001	0.02	<0.05	20.1	0.0861	9.5	<0.03	5.5	<0.0005	<0.0005	<0.03	<0.05
		7-Oct-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	8	0.0315	4.4	<0.03	1.5F	<0.0005	<0.0005	<0.03	<0.05
		14-Oct-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	4.9	0.016	2.7	0.01F	3.1	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	6.8	0.025B7	4.7	<0.03	1.1F	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1586.46	1589.46	<1	<0.03	<0.001	0.04F	0.02F	3.5	0.0147	2.2	<0.03	0.6F	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	1586.46	1589.46	<1	<0.03	<0.001	0.01F	<0.05	5	0.0203	3.9	<0.03	0.9F	<0.0005	<0.0005	<0.03	<0.05
	TEST 19S	11-Nov-08	N	1586.46	1589.46	<1	<0.03	<0.001	0.02F	<0.05	12	0.057	10.6	<0.03	1.7F	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	3.3	0.0131	3.1	<0.03	0.7F	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	5.9	0.0205	4.6	<0.03	0.6F	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	2.6	0.0061	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1586.46	1589.46	<1	<0.03	<0.001	<0.05	<0.05	1.5F	0.0051B3	1.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1586.46	1589.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1586.46	1589.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 20	26-Aug-08	N	1632.56	1635.56	23.1	2.4D1	<0.001	<0.05	0.05	429D1	0.0734B7	25.2D1	0.03FD1	107D1	0.0015	<0.0005	<0.05D1	0.89
		2-Sep-08	N	1632.56	1635.56	0.3F	0.049	<0.001	<0.05	<0.05	29.8	0.0033	12.3	<0.03	4.2	0.0001F	<0.0005	<0.03	0.01F
		9-Sep-08	N	1632.56	1635.56	0.4	0.076	<0.001	<0.05V1	<0.05	24.7	0.0062	11.3	0.01	2.5	0.0001	<0.0005	<0.03	0.02
		16-Sep-08	N	1632.56	1635.56	0.4	0.096	<0.001	0.01	<0.05	35.8	0.0053	19.1	<0.03	2.9	<0.0005	<0.0005	<0.03	0.05
		23-Sep-08	N	1632.56	1635.56	<1	0.04	<0.001	0.01	<0.05	10.5	0.0021	9.5	<0.03	0.8	<0.0005	<0.0005	<0.03	0.03
		30-Sep-08	N	1632.56	1635.56	0.2	0.081	<0.001	<0.05	<0.05	15.8	0.0032	11.2	<0.03	1	<0.0005	<0.0005	<0.03	0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 20	7-Oct-08	N	1632.56	1635.56	<1	0.054	<0.001	<0.05	<0.05	10.5	0.002	7.8	<0.03	0.6F	<0.0005	<0.0005	<0.03	0.04F
		14-Oct-08	N	1632.56	1635.56	0.5F	0.102	<0.001	<0.05	<0.05	13.2	0.0025	6.5	<0.03	0.9F	<0.0005	<0.0005	<0.03	0.09
		21-Oct-08	N	1632.56	1635.56	0.7F	0.117	<0.001	<0.05	<0.05	19.1	0.0039B7	9.9	<0.03	0.9F	<0.0005	<0.0005	<0.03	0.12
		28-Oct-08	N	1632.56	1635.56	0.7F	0.107	<0.001	<0.05	0.01F	16.7	0.0045	9.2	<0.03	0.6F	<0.0005	<0.0005	0.008F	0.11
		4-Nov-08	N	1632.56	1635.56	0.7F	0.11	<0.001	<0.05	<0.05	16.1	0.0037	12.3	<0.03	0.4F	<0.0005	<0.0005	<0.03	0.15
	TEST 20S	11-Nov-08	N	1632.56	1635.56	2	0.321	<0.001	0.02F	<0.05	31.1	0.0077	18.6	<0.03	0.4F	0.0002F	<0.0005	<0.03	0.47
		18-Nov-08	N	1632.56	1635.56	0.5F	0.073	<0.001	<0.05	<0.05	7.7	0.002	5.3	<0.03	<2	<0.0005	<0.0005	<0.03	0.12
		25-Nov-08	N	1632.56	1635.56	0.5F	0.071	<0.001	<0.05	<0.05	7.2	0.0021	4.7	<0.03	<2	<0.0005	<0.0005	<0.03	0.16
		2-Dec-08	N	1632.56	1635.56	0.4F	0.054	<0.001	<0.05	<0.05	5.7	0.0014	3.1	<0.03	<2	<0.0005	<0.0005	<0.03	0.12
		9-Dec-08	N	1632.56	1635.56	<1	0.056	<0.001	<0.05	<0.05	4.7	0.0018	2.9	<0.03	<2	<0.0005	<0.0005	<0.03	0.11
		16-Dec-08	N	1632.56	1635.56	<1	0.043	<0.001	<0.05	<0.05	4.5	0.0018	2.5	<0.03	<2	<0.0005	<0.0005	<0.03	0.1
		23-Dec-08	N	1632.56	1635.56	<1	0.048	--	<0.05	<0.05	4.4	0.0021	2.3	--	<2	<0.0005	<0.0005	--	0.1
		30-Dec-08	N	1632.56	1635.56	0.4F	0.065	--	<0.05	<0.05V1	4.5	0.0031	4.1V1	--	<2	<0.0005	<0.0005	--	0.16
		6-Jan-09	N	1632.56	1635.56	<1	0.06	--	<0.05	<0.05	5	0.0044	3.2	--	<2	<0.0005	<0.0005	--	0.15
		13-Jan-09	N	1632.56	1635.56	<1	0.052	<0.001	<0.05M1	<0.05	4	0.0037	3.5	<0.03M2	<2	<0.0005	<0.0005	<0.03	0.17M1
		20-Jan-09	N	1632.56	1635.56	0.3F	0.049	--	<0.05	<0.05	3.6	0.0043	3.2	--	<2	<0.0005	<0.0005	--	0.15
		27-Jan-09	N	1632.56	1635.56	0.3F	0.055	--	<0.05M1	<0.05	3.9	0.0046M1	2.9	--	<2	<0.0005	<0.0005	--	0.16M1
		3-Feb-09	N	1632.56	1635.56	0.3F	0.052	--	<0.05M1	<0.05	3.9	0.0046	3.2	--	<2	<0.0005	<0.0005	--	0.17
		10-Feb-09	N	1632.56	1635.56	0.3F	0.048	<0.001H3	<0.05	0.02F	3.8	0.0058	3.3	<0.03	<2	<0.0005	0.0001F	<0.03	0.18
		17-Feb-09	N	1632.56	1635.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 21	26-Aug-08	N	1652	1654.93	10.9	1.05	<0.001M2	<0.05	0.05	195	0.139B7	25.3	0.01F	25.5	0.0009	0.0001F	<0.03	0.14
		2-Sep-08	N	1652	1654.93	0.3F	0.059	<0.001	<0.05	<0.05	26.7	0.0157	22.6	<0.03	1.6F	0.0002F	<0.0005	<0.03	<0.05
		9-Sep-08	N	1652	1654.93	0.3	0.048	<0.001	<0.05	<0.05	9	0.0108	7	<0.03M2	0.4	<0.0005	<0.0005	<0.03	<0.05
		16-Sep-08	N	1652	1654.93	1.8	0.399	<0.001	<0.05	0.01	27.3	0.0513	16.9	<0.03M2	0.8	0.0002	0.0001	<0.03	0.03
		23-Sep-08	N	1652	1654.93	1.2	0.3	<0.001	<0.05	0.02	17.2	0.042	11	<0.03M2	0.8	0.0002	0.0001	<0.03	0.02
		30-Sep-08	N	1652	1654.93	3.4	0.743	<0.001	<0.05	0.04	28.1	0.111	22.8	<0.03M2	0.7	0.0003	0.0004	<0.03	0.22
		7-Oct-08	N	1652	1654.93	1.4	0.257	<0.001	0.01F	0.04F	15.1	0.11	15.4M1	0.01FM2	0.5F	0.0002F	0.0004F	<0.03	0.16
		14-Oct-08	N	1652	1654.93	0.4F	0.053	<0.001	<0.05	0.07	11.5	0.0237	47.7	0.09FD1	<2	0.0015	0.0008	<0.03	0.25
		21-Oct-08	N	1652	1654.93	<1	0.023F	<0.001	<0.05	0.01F	6.5	0.0666B7	13.9	<0.03M2	<2	0.0001F	0.0002F	0.006F	<0.05
		28-Oct-08	N	1652	1654.93	0.4F	0.042	<0.001	0.01F	0.02F	7.2	0.181	14.3	<0.03M2	<2	<0.0005	0.0005	<0.05D2	<0.05
		4-Nov-08	N	1652	1654.93	0.3F	0.059	<0.001	0.02F	<0.1D2	10.6	0.412	28.5M1	<0.03M2	<2	0.0001F	0.0008	<0.03	0.04FD1

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 21	11-Nov-08	N	1652	1654.93	<1	0.032	<0.001	0.02F	0.01F	5.5	0.312	19.2	<0.03	<2	0.0001F	0.0006	<0.03	<0.05
		18-Nov-08	N	1652	1654.93	<1	0.039	<0.001	0.02F	<0.1D2	6.4	0.393	27.3M1	<0.03M2	<2	<0.0005	0.0007	<0.03	0.02FD2
		25-Nov-08	N	1652	1654.93	<1	0.017F	<0.001	<0.05	<0.05	1.6F	0.117	8M1	<0.03M2	<2	0.0001F	0.0002F	<0.03	<0.05
		2-Dec-08	N	1652	1654.93	<1	0.03	<0.001	<0.05	<0.05	3.8	0.14	21.3	<0.03	<2	<0.0005	0.0003F	<0.03	<0.05
		9-Dec-08	N	1652	1654.93	<1	0.016F	<0.001	<0.05	<0.05	2.5	0.0968	13.6	<0.03M2	<2	<0.0005	0.0001F	<0.03	<0.05
		16-Dec-08	N	1652	1654.93	<1	0.035	<0.001	<0.05	<0.05	4.5	0.317	18.1	<0.03	<2	<0.0005	0.0005	<0.03	<0.05
		23-Dec-08	N	1652	1654.93	<1	0.025F	--	0.01F	<0.05	3.7	0.328	14	--	<2	<0.0005	0.0004F	--	<0.05
		30-Dec-08	N	1652	1654.93	<1	0.015F	--	<0.05	<0.05V1	2.6	0.362	19.9	--	0.4F	<0.0005	0.0005	--	0.01F
		6-Jan-09	N	1652	1654.93	<1	0.029F	--	<0.05	<0.05	3.9	0.457D1	23.3	--	0.4F	<0.0005	0.0007	--	0.02F
		13-Jan-09	N	1652	1654.93	<1	0.01F	<0.001	<0.05	0.01F	3.7	0.42D1	18.1	<0.03	<2	<0.0005	0.0007	<0.03	<0.05
		20-Jan-09	N	1652	1654.93	<1	0.015F	--	<0.05	<0.05	3.6	0.52D1	18.1	--	<2	0.0001F	0.0009	--	0.02F
		27-Jan-09	N	1652	1654.93	<1	0.018F	--	<0.05	0.01F	3.7	0.427D1	16.2M1	--	<2	<0.0005	0.0009	--	0.02F
		3-Feb-09	N	1652	1654.93	<1	0.014F	--	<0.05	0.02F	3	0.499	17.4	--	<2	<0.0005	0.0007	--	0.02F
		10-Feb-09	N	1652	1654.93	<1	0.016F	--	<0.05	<0.05	2.9	0.535D1	15.5	--	<2	<0.0005	0.0008	--	0.02F
		17-Feb-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1652	1654.93	<1	0.019F	<0.001	<0.05	<0.05	2.4	0.601D2B7	15.2	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05L1
		17-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1652	1654.93	<1	0.01F	<0.001	0.01F	<0.05	2.2	0.585D1	13	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		14-Apr-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1652	1654.93	<1	0.02F	<0.001	<0.05	<0.05	2.6	0.648D1	16.3	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		12-May-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1652	1654.93	<1	0.015F	<0.001	<0.05	<0.05	2.7	0.717D1	12.9	<0.03	<2	<0.0005	0.0003F	<0.03	<0.05
		9-Jun-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 21	16-Jun-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1652	1654.93	<1	0.059	<0.001	0.02F	0.02F	2.2	0.686D1	13.2	0.02F	<2	<0.0005	0.0004F	<0.03	0.04F
		7-Jul-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1652	1654.93	<1	0.025F	<0.001	<0.05	<0.05	2.4	0.914D1	12	<0.03	<2	<0.0005	0.0005	<0.03	<0.05
		4-Aug-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1652	1654.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1652	1654.93	<1	0.022F	<0.001	<0.05	0.02F	1.7F	0.531D1	17.8	<0.03	<2V1	<0.0005	0.0003F	<0.03	0.01F
	TEST 22	26-Aug-08	N	1654.93	1659.8	10.6	0.93	<0.001	0.04F	0.03F	210	0.131B7	24.6	<0.03	62.3	0.0016	<0.0005	0.006F	0.06
		2-Sep-08	N	1654.93	1659.8	0.5F	0.086	<0.001	0.04F	<0.05	39.8	0.0338	19.4	<0.03M2	4.1	0.0004F	<0.0005	<0.03	<0.05
		9-Sep-08	N	1654.93	1659.8	0.4	0.052	<0.001	<0.05	0.01	13.5	0.0095	11.5	<0.03	1.1	0.0001	<0.0005	0.006	0.01
		16-Sep-08	N	1654.93	1659.8	0.3	0.05	<0.001	<0.05	<0.05	10.8	0.01	5.8	<0.03	0.6	0.0001	<0.0005	<0.03	<0.05
		23-Sep-08	N	1654.93	1659.8	<1	0.045	<0.001	<0.05	<0.05	6.4	0.0047	2.5	<0.03	0.5	0.0001	<0.0005	<0.03	<0.05
		30-Sep-08	N	1654.93	1659.8	1	0.178	<0.001	<0.05	<0.05	19.5	0.0166	9.4	<0.03	1.1	0.0003	<0.0005	<0.03	0.02
		7-Oct-08	N	1654.93	1659.8	0.9F	0.167	<0.001	<0.05	<0.05	9.9	0.0124	5.9	<0.03	0.8F	0.0002F	<0.0005	<0.03	0.01F
		14-Oct-08	N	1654.93	1659.8	0.9F	0.147	<0.001	<0.05	<0.05	8.2	0.0073	5.2	<0.03	0.4F	0.0001F	<0.0005	<0.03	<0.05
		21-Oct-08	N	1654.93	1659.8	0.4F	0.082	<0.001	<0.05	<0.05	4.7	0.007B4	4.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1654.93	1659.8	0.9F	0.13	<0.001	<0.05	<0.05	6.1	0.0082	4.4	<0.03	0.6F	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	1654.93	1659.8	1.2	0.171	<0.001	0.01F	<0.05	7.4	0.0132	10.5	<0.03	<2	0.0001F	<0.0005	<0.03	0.02F
	TEST 22S	11-Nov-08	N	1654.93	1659.8	0.5F	0.125	<0.001	0.01F	<0.05	4.5	0.0096	7.4	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	1654.93	1659.8	<1	0.033	<0.001	0.01F	<0.05	1.6F	0.0055	2.4	<0.03	<2	<0.0005	<0.0005	<0.03	0.01F
		25-Nov-08	N	1654.93	1659.8	<1	0.024F	<0.001	<0.05	<0.05	0.9F	0.0036	1.4F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1654.93	1659.8	<1	0.029F	<0.001	<0.05	<0.05	1.6F	0.0028	1.3F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1654.93	1659.8	<1	0.022F	<0.001	<0.05	<0.05	1.5F	0.0031	1.3F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1654.93	1659.8	<1	0.019F	<0.001	<0.05	<0.05	1.3F	0.0027	1F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	N	1654.93	1659.8	<1	0.024F	--	<0.05	<0.05	1.1F	0.0025	0.9F	--	<2	<0.0005	<0.0005	--	<0.05
		30-Dec-08	N	1654.93	1659.8	<1	0.024F	--	<0.05	<0.05V1	0.3F	0.0029	1.4F	--	0.3F	<0.0005	<0.0005	--	<0.05
		6-Jan-09	N	1654.93	1659.8	<1	0.022F	--	<0.05	<0.05	0.9F	0.0027	1.2F	--	<2	<0.0005	<0.0005	--	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 22S	13-Jan-09	N	1654.93	1659.8	<1	0.013F	<0.001	<0.05	<0.05	0.7F	0.0024	0.9F	<0.03	<2	<0.0005	<0.0005	0.006F	<0.05
		20-Jan-09	N	1654.93	1659.8	<1	0.024F	--	<0.05	<0.05	0.9F	0.0031	0.9F	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	1654.93	1659.8	<1	0.027F	--	<0.05	<0.05	0.9F	0.0035	1.6F	--	<2	<0.0005	<0.0005	--	<0.05
		3-Feb-09	N	1654.93	1659.8	<1	0.023F	--	<0.05	<0.05	0.8F	0.0029	1F	<0.03	<2	<0.0005	<0.0005	--	<0.05
		10-Feb-09	N	1654.93	1659.8	<1	0.029F	<0.001H3	<0.05	<0.05	1F	0.0049	1.4F	<0.03	<2	<0.0005	<0.0005	<0.03	0.03F
		17-Feb-09	N	1654.93	1659.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 23	26-Aug-08	N	1759.23	1761.23	16.2	1.93	<0.001M2	<0.05	0.37	352	0.0094B7	44.4	<0.03M2	38.4	0.0164	0.0011	<0.03	0.9
		2-Sep-08	N	1759.23	1761.23	0.9F	0.224	<0.001	<0.05	0.01F	21.4	0.0018	7	<0.03	1.2F	0.0014	0.0001F	<0.03	0.04F
		9-Sep-08	N	1759.23	1761.23	1.1	0.296	<0.001	<0.05	0.03	16.2	0.0018	7.8	<0.03	0.9	0.0011	0.0001	<0.03	0.05
		16-Sep-08	N	1759.23	1761.23	7	1.82	<0.001	<0.05	0.22	85.1	0.0112	54.2	<0.03	2.6	0.0063	0.0011	<0.03	0.37
		23-Sep-08	N	1759.23	1761.23	4D2	0.77D2	<0.001	0.06D2	0.36D2	59D2	0.0195	65D2	<0.1D2	<8D2	0.0064	0.0031	<0.1D2	0.37D2
		30-Sep-08	N	1759.23	1761.23	1.1	0.142	<0.001	<0.05	0.1	31.4	0.018	64.1	<0.03	0.5	0.0046	0.0019	<0.03	0.25
		7-Oct-08	N	1759.23	1761.23	0.4F	0.071	<0.001	<0.1D1	0.12	18.7D1	0.0196	57.7	<0.03	0.4F	0.0025	0.001	<0.03	0.2
		14-Oct-08	N	1759.23	1761.23	1.3	0.19	<0.001	<0.05	0.03F	22.5	0.175	30.3	<0.05D1	<2	0.0002F	0.0006	<0.03	0.12
		21-Oct-08	N	1759.23	1761.23	<1	0.026F	<0.001	<0.05	0.09	8.6D1	0.019B7	37.7	<0.05D1	<3D1	0.0012	0.0006	<0.03	0.15
		28-Oct-08	N	1759.23	1761.23	0.3F	0.025F	<0.001	0.01F	0.04F	5	0.0149	29.9	<0.03	<2	0.0007	0.0003F	<0.03	0.08
		4-Nov-08	N	1759.23	1761.23	0.3F	0.032	<0.001	<0.05	0.08FD2	8.5	0.0494M1	50.8	<0.03	<2	0.0013	0.0012	<0.1D1	0.85D2
		11-Nov-08	N	1759.23	1761.23	<1	0.017F	<0.001	0.02F	0.04F	4.8	0.0266M1	26.9M2	<0.03M2	<2	0.0007	0.0004F	<0.03	0.15D2
		18-Nov-08	N	1759.23	1761.23	<1	0.01F	<0.001	0.02F	0.06FD2	6.3	0.0364M1	22.8	<0.03	<2	0.001	0.0011	<0.1D2	0.48D2
		25-Nov-08	N	1759.23	1761.23	<1	0.014F	<0.001	<0.05	0.09FD1	4.5	0.0392	28.2	<0.03	<2	0.0008	0.0008	<0.03	0.43
		2-Dec-08	N	1759.23	1761.23	<1	0.012F	<0.001	<0.05	0.04F	4.1	0.0234	21.2	<0.05D1	<2	0.0005	0.0005	<0.03	0.3
		9-Dec-08	N	1759.23	1761.23	<1	0.008F	<0.001	<0.05	0.06	4.2	0.0372	22.3	<0.03	<2	0.0005	0.0006	<0.03	0.52
		16-Dec-08	N	1759.23	1761.23	<1	0.008F	<0.001	<0.05	0.05	3.8	0.0356	18	<0.03	<2	0.0005	0.0007	<0.03	0.52
		23-Dec-08	N	1759.23	1761.23	<1	0.015F	--	0.02F	0.06FD1	1.8F	0.0374	16.6	--	<3D1	0.0004F	0.0007	--	0.54
		30-Dec-08	N	1759.23	1761.23	<5D1	<0.03	--	<0.3D1	<0.3D1V1	3	0.0344	14.5M1	--	<2	0.0005	0.001	--	0.55D1
		6-Jan-09	N	1759.23	1761.23	<1	0.017F	--	<0.05	0.08FD1	4FD1	0.0501	20.8	--	<2	0.0005	0.001	--	0.61
		13-Jan-09	N	1759.23	1761.23	<1	<0.05D1	<0.001	<0.1D1	0.05	3.2D1	0.0349	15.6D1	<0.03	<3D1	0.0005	0.0009	<0.03	0.34D1
		20-Jan-09	N	1759.23	1761.23	<1	0.006F	--	<0.05	0.05FD1	3.5	0.0372	13.3	--	<2	0.0006	0.001	--	0.37
		27-Jan-09	N	1759.23	1761.23	<1	0.02FD1	--	0.01F	0.04FD1	3.5	0.0495	16.5	--	<2	0.0003F	0.001	--	0.42D1
		3-Feb-09	N	1759.23	1761.23	<1	0.006F	--	<0.1D1	0.05FD1	3.3	0.0379	13.7	--	<2	0.0004F	0.0008	--	0.39
		10-Feb-09	N	1759.23	1761.23	<1	0.008F	--	<0.05	0.05	2.6	0.0263	11.2	--	<2	0.0003F	0.0008	--	0.28

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 23	17-Feb-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1759.23	1761.23	<1	0.007F	<0.001	<0.05	0.04F	2.2	0.0326	9.9	<0.05D2	<2	0.0003F	0.0006	<0.03	0.51D2
		17-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1759.23	1761.23	<1	<0.03	<0.001	0.02FD1	0.04FD1	1.9F	0.0364B7	9.5	<0.03	<2	0.0003F	0.0009	<0.05D1	0.3
		14-Apr-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1759.23	1761.23	<1	<0.03	<0.001	<0.05	0.04F	1.7F	0.0354	9.8	<0.03	<2	0.0002F	0.0008	<0.03	0.28
		12-May-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1759.23	1761.23	<1	0.01F	<0.001	<0.05	0.06	2.4	0.0618	10.8	<0.03	<2	0.0003F	0.0011	<0.05D1	0.4
		9-Jun-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1759.23	1761.23	<1	0.022F	<0.001	<0.05	0.1	1.6F	0.0796B1	11.4	0.01F	<2	0.0005	0.0022	<0.05D1	0.74D1
		7-Jul-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1759.23	1761.23	<1	0.018F	<0.001	<0.05	0.09	2.2	0.071	10.4	<0.05D1	<2	0.0003F	0.0027	<0.03	0.28
		4-Aug-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1759.23	1761.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1759.23	1761.23	<1	0.008F	<0.001	<0.05	0.1	2	0.0769	11.9	<0.05D1	<2V1	0.0002F	0.0025	<0.05D1	0.4D1
	TEST 24	26-Aug-08	N	1892.81	1895	26.1	3.25	<0.001	<0.05	3.75	275	0.0335B7	41.1	<0.03L1	56.3	0.0027	2.13D1	<0.03	26.2
		2-Sep-08	N	1892.81	1895	0.3F	0.136	<0.001	<0.05	0.02F	3.7	0.0008	1.6F	<0.03	0.3F	<0.0005	0.008	<0.03	0.2
		9-Sep-08	N	1892.81	1895	1.9	0.888	<0.001	<0.05	0.08	20.6	0.0034	17.9	<0.03	1.4	0.0003	0.0722	<0.03	1.1

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 24	16-Sep-08	N	1892.81	1895	2.2	0.976	<0.001	<0.05	0.26	33.6	0.0077	45.4	<0.03	1.4	0.0004	0.0589	<0.03	4.44
		23-Sep-08	N	1892.81	1895	5.1	2.17	<0.001	<0.05	1.02	37.7	0.0142	55.7	<0.03	0.7	0.0007	0.307D2	<0.03	27
		30-Sep-08	N	1892.81	1895	2.4	0.603	<0.001	<0.05	0.73	20.6	0.0159	52.1	<0.03	0.5	0.0005	0.407D1	<0.03	28.3
		7-Oct-08	N	1892.81	1895	1	0.126	<0.001	<0.05	0.38	13	0.0135	44.1	<0.03	<2	0.0003F	0.271D1	<0.03	15.2
		14-Oct-08	N	1892.81	1895	0.9F	0.092	<0.001	<0.05	0.42	9.2	0.0163	37.7	<0.03	<2	0.0003F	0.4D1	<0.03	19
		21-Oct-08	N	1892.81	1895	0.5F	0.044	<0.001	<0.05	0.28	6.3	0.0129B7	21.9	<0.03	<2	0.0002F	0.267D1	<0.03	13.6
		28-Oct-08	N	1892.81	1895	0.7F	0.051	<0.001	<0.05	0.44	5.3	0.0226	22	<0.03	<2	0.0002F	0.412D2	<0.03	32.3
		4-Nov-08	N	1892.81	1895	0.5F	0.041	<0.001	<0.05	0.25	5.3	0.0213	32.5	<0.03	<2	0.0002F	0.246D2	<0.03	20
		11-Nov-08	N	1892.81	1895	0.3F	0.034	<0.001	0.01F	0.3	2.8	0.0238	23.2	<0.03	<2	0.0001F	0.241D2	<0.03	27.7
		18-Nov-08	N	1892.81	1895	<1	0.024F	<0.001	0.01F	0.16	2.8	0.0162	25	<0.03	<2	<0.0005	0.154	<0.03	16
		25-Nov-08	N	1892.81	1895	0.2F	0.026F	<0.001	<0.05	0.35	3	0.0265M1	24.9	<0.03	<2	0.0001F	0.301D1	<0.03	32.1
		2-Dec-08	N	1892.81	1895	<1	0.018F	<0.001	<0.05	0.24	3.7	0.0163	21.7	<0.03	<2	0.0001F	0.154	<0.03	20.8
		9-Dec-08	N	1892.81	1895	<1	0.012F	<0.001	<0.05	0.12	2.6	0.0118	21	<0.03	<2	<0.0005	0.0959	<0.03	10.7
		16-Dec-08	N	1892.81	1895	<1	0.012F	<0.001	<0.05	0.12	2.9	0.0139	21.5	<0.03	<2	<0.0005	0.0766	<0.03	10.3
		23-Dec-08	N	1892.81	1895	<1	0.019F	--	0.02F	0.15	2.6	0.0161	18.7	--	<2	<0.0005	0.0747	--	12.9
		30-Dec-08	N	1892.81	1895	<1	0.013F	--	<0.05	0.32	2.4	0.0274	23.3	--	<2	0.0001F	0.153	--	31.2
		6-Jan-09	N	1892.81	1895	<1	0.014F	--	0.01F	0.25	2.4	0.0218	14.6	--	<2	<0.0005	0.108	--	19.8
		13-Jan-09	N	1892.81	1895	<1	0.006F	<0.001	<0.05	0.38	2.5	0.03	17.6	<0.03	<2	<0.0005	0.206D1	<0.03	44.1
		20-Jan-09	N	1892.81	1895	<1	0.011F	--	<0.05	0.37	2.7	0.0235	15.8	--	<2	0.0001F	0.164	--	32.3
		27-Jan-09	N	1892.81	1895	<1	0.014F	--	<0.05	0.35	2.5	0.0258	12.3M1	--	<2	<0.0005	0.168	--	26.8
		3-Feb-09	N	1892.81	1895	<1	0.028F	--	<0.05	0.49	4.1	0.03	21.6	--	<2	0.0001F	0.23D1	--	41.5
		10-Feb-09	N	1892.81	1895	<1	0.01F	<0.001H3	<0.05	0.5D2	2.7	0.04	16.7	<0.03	<2	<0.0005	0.189	<0.05D2	34.1
		17-Feb-09	N	1892.81	1895	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 25	26-Aug-08	N	1917.29	1920.9	63.2	2.87	<0.001	<0.05	0.1	223	0.0347B7	41	<0.03L1	61	0.0007	0.0005	<0.03	0.58
		2-Sep-08	N	1917.29	1920.9	1.1	0.084	<0.001	<0.05	<0.05	20.9	0.0029	14.8	<0.03	1.2F	<0.0005	<0.0005	<0.03	0.02F
		9-Sep-08	N	1917.29	1920.9	0.6	0.043	<0.001	<0.05	0.01	17.1	0.0022	17	<0.03	0.7	<0.0005	<0.0005	<0.03	0.02
		16-Sep-08	N	1917.29	1920.9	3	0.224	<0.001	<0.05	<0.05	23.2	0.012	12.5	<0.03	0.7	<0.0005	<0.0005	<0.03	0.1
		23-Sep-08	N	1917.29	1920.9	4.1	0.301	<0.001	<0.05	0.02	21.6	0.0095	10.8	<0.03	0.4	<0.0005	0.0002	<0.03	0.2
		30-Sep-08	N	1917.29	1920.9	7.7	0.563	<0.001	<0.05	0.05	54.2	0.043	39.3	<0.03	0.9	0.0002	0.0002	<0.03	0.52
		7-Oct-08	N	1917.29	1920.9	3.3	0.241	<0.001	<0.05	0.02F	25.7	0.0082	19.5	<0.03	<2	<0.0005	0.0004F	<0.03	0.27
		14-Oct-08	N	1917.29	1920.9	2.2	0.172	<0.001	<0.05	<0.05	12.4	0.0044	8.7	<0.03	<2	<0.0005	0.0001F	<0.03	0.22

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005I	TEST 25	21-Oct-08	N	1917.29	1920.9	3.8	0.274	<0.001	<0.05	0.04F	22.5	0.0084B4	15.3	<0.03	<2	<0.0005	0.0002F	<0.03	0.4
		28-Oct-08	N	1917.29	1920.9	3	0.227	<0.001	<0.05	0.03F	15.1	0.0075	11.5	<0.03	<2	<0.0005	0.0001F	<0.03	0.4
		4-Nov-08	N	1917.29	1920.9	3.9	0.275	<0.001	0.01F	0.03F	28.6	0.0145	24.5	<0.03	<2	<0.0005	0.0003F	<0.03	0.56
		18-Nov-08	N	1917.29	1920.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 25S	11-Nov-08	N	1917.29	1920.9	1.1	0.07	<0.001	0.01F	0.01F	11.4	0.0041	4.6	<0.03	<2	<0.0005	<0.0005	<0.03	0.17
		18-Nov-08	N	1917.29	1920.9	0.6F	0.042	<0.001	0.02F	<0.05	5.8	0.0024	3.5	<0.03	<2	<0.0005	0.0001F	<0.03	0.12
		25-Nov-08	N	1917.29	1920.9	0.5F	0.037	<0.001	<0.05	<0.05	4.6	0.002	2.6	<0.03	<2	<0.0005	0.0003F	<0.03	0.1
		2-Dec-08	N	1917.29	1920.9	0.5F	0.038	<0.001	<0.05	<0.05	4.4	0.0016	1.9F	<0.03	<2	<0.0005	<0.0005	<0.03	0.13
		9-Dec-08	N	1917.29	1920.9	0.6F	0.044	<0.001	<0.05	<0.05	4.7	0.0022	2	<0.03	<2	<0.0005	<0.0005	<0.03	0.16
		16-Dec-08	N	1917.29	1920.9	0.6F	0.05	<0.001	<0.05	<0.05	4.4	0.0022	1.9F	<0.03	<2	<0.0005	<0.0005	<0.03	0.18
		23-Dec-08	N	1917.29	1920.9	0.4F	0.051	--	0.02F	<0.05	4	0.0018	1.4F	--	<2	<0.0005	0.0001F	--	0.17
		30-Dec-08	N	1917.29	1920.9	0.9F	0.061	--	<0.05	<0.05V1	4.7	0.0027	2.9	--	0.3F	<0.0005	0.0002F	--	0.27
		6-Jan-09	N	1917.29	1920.9	0.8F	0.072	--	<0.05	0.02F	5.6	0.0033	10.6	--	<2	<0.0005	<0.0005	--	0.33
		13-Jan-09	N	1917.29	1920.9	1.2	0.089	<0.001	<0.05	<0.05	4.1	0.0039	1.9F	<0.03	<2	<0.0005	0.0002F	<0.03	0.58
		20-Jan-09	N	1917.29	1920.9	0.9F	0.063	--	<0.05	0.02F	4.1	0.0025	1.7F	--	<2	<0.0005	0.0002F	--	0.36
		27-Jan-09	N	1917.29	1920.9	0.8F	0.06	--	<0.05	<0.05	3.9	0.0026	2.6	--	<2	<0.0005	0.0001F	--	0.34
		3-Feb-09	N	1917.29	1920.9	0.8F	0.054	--	<0.05	<0.05	3.2	0.0022	1.1F	--	<2	<0.0005	0.0001F	--	0.38
		10-Feb-09	N	1917.29	1920.9	0.7F	0.052	<0.001H3	<0.05	0.02F	4	0.0033M1	1.9F	<0.03	<2	<0.0005	0.0001F	<0.03	0.42
		17-Feb-09	N	1917.29	1920.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-005J	TEST 26	26-Aug-08	N	1660.4	1686.47	1.9	0.141	<0.001	1.37	0.01F	26.1	0.0056B7	4.6	<0.03L1	47.2	0.001	<0.0005	<0.03	0.02F
		2-Sep-08	N	1660.4	1686.47	1.4FD1	0.043	<0.001	1.6	<0.05	20.8	0.0043	4.4	<0.03	25.8	0.0012	<0.0005	<0.05D1	<0.1D1
		9-Sep-08	N	1660.4	1686.47	1.2	0.027	<0.001	1.24	<0.05	16.4	0.0031	3.1	<0.03	14.3	0.0009	<0.0005	<0.03	<0.05
		16-Sep-08	N	1660.4	1686.47	0.8	0.019	<0.001	0.62	<0.05	10.9	0.0018	3	<0.03	5.7	0.0008	<0.0005	<0.03	<0.05
		23-Sep-08	N	1660.4	1686.47	0.8	0.018	<0.001	0.53	<0.05	11.5	0.002	3.4	<0.03	4.5	0.0011	<0.0005	<0.03	<0.05
		30-Sep-08	N	1660.4	1686.47	0.6	0.012	<0.001	0.27	<0.05	8.5	0.0016	2.1	<0.03	2.2	0.0009	<0.0005	<0.03	<0.05
		7-Oct-08	N	1660.4	1686.47	0.4F	0.009F	<0.001	0.19	<0.05	6.1	0.0015	1.9F	<0.03	1F	0.0007	<0.0005	<0.03	<0.05
		14-Oct-08	N	1660.4	1686.47	0.6F	0.014F	<0.001	0.15	<0.05	4.9	0.0011	2	<0.03	0.6F	0.0006	<0.0005	<0.03	<0.05
		21-Oct-08	N	1660.4	1686.47	0.4F	0.008F	<0.001	0.1	<0.05	3.9	0.001	1.9F	<0.03	0.3F	0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1660.4	1686.47	0.5F	0.01F	<0.001	0.09	<0.05	2.9	0.001	1.6F	<0.03	0.4F	0.0004F	<0.0005	<0.03	0.01F
		4-Nov-08	N	1660.4	1686.47	0.5F	0.012F	<0.001	0.09	<0.05	2.7	0.0016	1.9F	<0.03	<2	0.0005	<0.0005	<0.03	0.02F
		11-Nov-08	N	1660.4	1686.47	0.6F	0.013F	<0.001	0.09	<0.05	3.1	0.0018	2.3	<0.03	<2	0.0006	<0.0005	<0.03	0.02F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005J	TEST 26	18-Nov-08	N	1660.4	1686.47	0.4F	0.011F	<0.001	0.07	<0.05	2.1	0.001	1.9F	<0.03	<2	0.0004F	<0.0005	<0.03	0.03F
		25-Nov-08	N	1660.4	1686.47	0.3F	0.01F	<0.001	0.04F	<0.05	1.7F	0.0009	1.8F	<0.03	<2	0.0004F	<0.0005	<0.03	0.03F
		2-Dec-08	N	1660.4	1686.47	0.3F	0.008F	<0.001	0.05	<0.05	1.9F	0.0007	1.4F	<0.03	<2	0.0004F	<0.0005	<0.03	0.05
		9-Dec-08	N	1660.4	1686.47	0.3F	<0.03	<0.001	0.04F	<0.05	1.9F	0.0008	1.5F	<0.03	<2	0.0003F	<0.0005	<0.03	0.04F
		16-Dec-08	N	1660.4	1686.47	<1	<0.03	<0.001	0.04F	<0.05	1.8F	0.0007	1.3F	<0.03	<2	0.0003F	<0.0005	<0.03	0.04F
		23-Dec-08	N	1660.4	1686.47	<1	0.011F	--	0.04F	<0.05	1.3F	0.0003F	1.1F	--	<2	0.0003F	<0.0005	--	0.04F
		30-Dec-08	N	1660.4	1686.47	0.2F	<0.03	--	0.04F	<0.05V1	<2	0.0005	1.2F	--	<2	0.0003F	<0.0005	--	0.06
		6-Jan-09	N	1660.4	1686.47	<1	0.007F	--	0.04F	<0.05	1F	0.0006	1.1F	--	<2	0.0003F	<0.0005	--	0.07
		13-Jan-09	N	1660.4	1686.47	<1	<0.03	<0.001	0.02F	<0.05	0.7F	0.0005	1.5F	<0.03	<2	0.0003F	<0.0005	<0.03	0.06
		20-Jan-09	N	1660.4	1686.47	<1	0.005F	--	0.01F	<0.05	0.9F	0.0005	1.5F	--	<2	0.0003F	<0.0005	--	0.07
		27-Jan-09	N	1660.4	1686.47	<1	0.007F	--	0.02F	<0.05	0.8F	0.0004F	1.6F	--	<2	<0.0005	<0.0005	--	0.07
		3-Feb-09	N	1660.4	1686.47	<1	<0.03	--	0.02FM1	<0.05	0.7F	0.0004F	1.9F	--	<2	0.0002F	<0.0005	--	0.08
		10-Feb-09	N	1660.4	1686.47	<1	0.005F	--	0.01F	<0.05	0.9F	0.0027	1.9F	--	<2	<0.0005	0.0003F	--	0.08
		17-Feb-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1660.4	1686.47	<1	0.005F	<0.001	0.03F	<0.05	0.9F	0.0004F	1.5F	<0.03	<2	0.0003F	<0.0005	<0.03	0.14
		17-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1660.4	1686.47	<1	<0.03	<0.001	0.03F	<0.05	0.7F	0.0011	1.9	<0.03	<2	0.0002F	<0.0005	<0.03	0.16
		14-Apr-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1660.4	1686.47	<1	<0.03	<0.001	0.01F	<0.05	0.6F	0.0003F	1.6F	<0.03	<2	0.0002F	<0.0005	<0.03	0.2
		12-May-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1660.4	1686.47	<1	0.005F	<0.001	0.03F	<0.05	0.6F	0.0004F	2.1	<0.03	<2	0.0003F	<0.0005	<0.03	0.22
		9-Jun-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005J	TEST 26	23-Jun-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1660.4	1686.47	<1	0.013F	<0.001	0.03F	<0.05	0.4F	0.001	2.1	0.02F	<2	0.0004F	<0.0005	<0.03	0.3
		7-Jul-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1660.4	1686.47	<1	0.03	<0.001	0.04F	<0.05	0.7F	0.0006	3.1	<0.03	<2	0.0004F	<0.0005	<0.03	0.5
		4-Aug-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1660.4	1686.47	<1	0.044	<0.001	<0.05	0.02F	0.8F	0.0007	4.7	<0.03	<2V1	0.0005	<0.0005	<0.03	0.59
		1-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1660.4	1686.47	<1	0.055	<0.001	0.03F	<0.05	0.5F	0.0009	2.6	<0.03	<2	0.0004F	<0.0005	<0.03	0.73
		29-Sep-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1660.4	1686.47	<1	0.047	<0.001	<0.05	0.01F	0.4F	0.0007	2.8	<0.03	<2	0.0003F	<0.0005	<0.03	0.83
		27-Oct-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1660.4	1686.47	<1	0.036	<0.001	0.02F	0.02F	<2	0.0008	2.4	<0.03	<2	0.0003F	<0.0005	<0.03	0.73
		24-Nov-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		1-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Dec-09	N	1660.4	1686.47	<1	0.045	<0.001	0.01F	0.02F	0.5F	0.0011	3	<0.03	0.4F	0.0003F	<0.0005	<0.03	0.99
		22-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		29-Dec-09	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-Jan-10	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12-Jan-10	N	1660.4	1686.47	<1	0.033	<0.001	<0.05	<0.05	<2	0.0014	2.6	<0.03	<2	0.0003F	<0.0005	<0.03	0.78
		19-Jan-10	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-005J	TEST 26	26-Jan-10	N	1660.4	1686.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-006D	TEST 27	26-Aug-08	N	1750.4	1753.4	115	5.5	<0.001	0.01F	2	358	0.0434B7	91.7	<0.05D1	39.3	0.0016	0.116	0.029F	77.3
		2-Sep-08	N	1750.4	1753.4	2.4	0.225	<0.001	<0.05	0.06	24.1	0.0162	19	<0.03	0.6F	0.0002F	0.0017	<0.03	11.9
		9-Sep-08	N	1750.4	1753.4	1	0.117	<0.001	<0.05	0.04	8.4	0.0061	11.1	<0.03	<2	<0.0005	0.0009	<0.03	10.7
		16-Sep-08	N	1750.4	1753.4	0.9	0.084	<0.001	<0.05	0.02	8.4	0.0051	11.9	<0.03	<2	<0.0005	0.0013	<0.03	15
		23-Sep-08	N	1750.4	1753.4	0.9	0.095	<0.001	<0.05	0.03	8.6	0.0049	11.3	<0.03	<2	0.0001	0.002	<0.03	17.1
		30-Sep-08	N	1750.4	1753.4	0.9	0.072	<0.001	<0.05	0.02	7.9	0.0051	10.1	<0.03	<2	0.0001	0.0019	<0.03	16.2
		7-Oct-08	N	1750.4	1753.4	1.7	0.13	<0.001	<0.05	0.05	11.8	0.0109	10.7	<0.03	<2	0.0001F	0.0032	<0.03	26.2
		14-Oct-08	N	1750.4	1753.4	1.5	0.11	<0.001	<0.05	0.04F	8.8	0.0079	12.2	<0.03	0.3F	<0.0005	0.0024	<0.03	25.9
		21-Oct-08	N	1750.4	1753.4	0.9F	0.069	<0.001	0.01F	0.03F	6	0.0043	10.5	<0.03	<2	<0.0005	0.0016	<0.03	17.1
		28-Oct-08	N	1750.4	1753.4	1	0.061	<0.001	<0.05	0.03F	4.6	0.0041	10.4	<0.03	0.5F	<0.0005	0.0012	0.006F	15.5
		4-Nov-08	N	1750.4	1753.4	0.9F	0.059	<0.001	<0.05	0.02F	3.9	0.0044	11.6	<0.03	<2	<0.0005	0.0012	0.006F	16.2
		11-Nov-08	N	1750.4	1753.4	3.6	0.242	<0.001	<0.05	0.1	14	0.0199	21.8	<0.03	0.5F	0.0002F	0.0044	<0.03	57.3
		18-Nov-08	N	1750.4	1753.4	5.2	0.328	<0.001	<0.05	0.19	29	0.0797	52.8	<0.03	0.6F	0.0004F	0.0161	<0.03	145
		25-Nov-08	N	1750.4	1753.4	0.8F	0.071	<0.001	<0.05	0.03F	6.3	0.0103B3	10	<0.03	<2	0.0001F	0.0024	<0.03	20
		2-Dec-08	N	1750.4	1753.4	0.3F	0.02F	<0.001	<0.05	<0.05	3.8	0.0043	15.5	<0.03	<2	<0.0005	0.0009	<0.03	7.79
		9-Dec-08	N	1750.4	1753.4	<1	0.005F	<0.001	<0.05	<0.05	3	0.0036	9.9	<0.03	<2	<0.0005	0.0005	<0.03	5.99
		16-Dec-08	N	1750.4	1753.4	<1	0.006F	<0.001	<0.05	<0.05	2.4	0.0036	10	<0.03	<2	<0.0005	0.0007	<0.03	6.33
		23-Dec-08	N	1750.4	1753.4	<1	0.013F	--	0.02F	<0.05	2.3	0.003	6.9	--	<2	<0.0005	0.0005	--	5.2
		30-Dec-08	N	1750.4	1753.4	0.3F	0.008F	--	0.02F	<0.05V1	1.5F	0.0034	12.5	--	<2	<0.0005	0.0006	--	6.54
		6-Jan-09	N	1750.4	1753.4	<1	0.014F	--	<0.05	<0.05	2.1	0.004	8.1	--	<2	<0.0005	0.0005	--	6.59
		13-Jan-09	N	1750.4	1753.4	<1	<0.03	<0.001	<0.05	<0.05	1.4F	0.0031	7.2	<0.03	<2	<0.0005	0.0005	0.013F	6.13
		20-Jan-09	N	1750.4	1753.4	0.9F	0.031	--	<0.05	0.02F	5.1	0.0101	22.3	--	<2	<0.0005	0.0017	--	22.4
		27-Jan-09	N	1750.4	1753.4	0.6F	0.019F	--	<0.05	<0.05	5.2	0.005	18.4	--	<2	<0.0005	0.0008	--	13.9
		3-Feb-09	N	1750.4	1753.4	2	0.052	--	<0.05	0.07	13.3	0.0391	37.4	--	0.4F	0.0002F	0.0063	--	67.8
		10-Feb-09	N	1750.4	1753.4	0.3F	0.013F	<0.001H3	0.02F	0.03FM1	1.8F	0.0046	5.2M1	<0.03M2	<2	<0.0005	0.0007	<0.03	7.59M3
		17-Feb-09	N	1750.4	1753.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 28	26-Aug-08	N	1898.21	1901.09	50.5	5.02	<0.001	<0.1D1	0.85	618D1	0.0367B7	80	<0.03L1	55.9	0.0028	0.0715	0.008F	1.79
		2-Sep-08	N	1898.21	1901.09	2.9	0.918	<0.001	<0.05	0.04F	74.7	0.0056	72.7	<0.03	3	0.0003F	0.0032	<0.03	0.07
		9-Sep-08	N	1898.21	1901.09	0.3	0.066	<0.001	<0.05	0.02	4.4	0.0009	3.6	<0.03	<2	<0.0005	0.0003	<0.03	0.01
		16-Sep-08	N	1898.21	1901.09	0.3	0.101	<0.001	<0.05	<0.05	4.8	0.0018	3.9	<0.03	<2	<0.0005	0.0005	<0.03	0.01

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	TEST 28	23-Sep-08	N	1898.21	1901.09	<1	0.047	<0.001	<0.05	<0.05	3.7	0.0018	3.9	<0.03	<2	<0.0005	0.0004	<0.03	<0.05
		30-Sep-08	N	1898.21	1901.09	0.4	0.086	<0.001	<0.05	<0.05	7.9	0.0049	7.1	<0.03	<2	<0.0005	0.0012	<0.03	0.03
		7-Oct-08	N	1898.21	1901.09	1.5	0.287	<0.001	<0.05	0.05	24.5	0.0116	26.9	<0.03	0.5F	<0.0005	0.0038	<0.03	0.09
		14-Oct-08	N	1898.21	1901.09	0.6F	0.105	<0.001	<0.05	0.02F	8.9	0.0058	12.1	<0.03	<2	<0.0005	0.0016	<0.03	0.04F
		21-Oct-08	N	1898.21	1901.09	0.4F	0.088	<0.001	<0.05	0.02F	8.4	0.0063B4	10.2	<0.03	<2	<0.0005	0.0018	<0.03	0.03F
		28-Oct-08	N	1898.21	1901.09	0.7F	0.101	<0.001	<0.05	0.02F	9.4	0.0091	12.4	<0.03	<2	<0.0005	0.0021	<0.03	0.04F
		4-Nov-08	N	1898.21	1901.09	0.7F	0.122	<0.001	<0.05	0.02F	10	0.0134	17.6	<0.03	<2	<0.0005	0.0027	<0.03	0.07
		11-Nov-08	N	1898.21	1901.09	0.9F	0.144	<0.001	<0.05	0.03F	11	0.0126	19.6	<0.03	<2	<0.0005	0.0029	<0.03	0.06
		18-Nov-08	N	1898.21	1901.09	1.2	0.185	<0.001	0.03F	0.04F	13.8	0.0154	28.1	<0.03	<2	<0.0005	0.0037	<0.03	0.12
		25-Nov-08	N	1898.21	1901.09	0.9F	0.146	<0.001	<0.05	0.04F	10.6	0.0146B3	21	<0.03	<2	<0.0005	0.0033	<0.03	0.08
		2-Dec-08	N	1898.21	1901.09	0.6F	0.107	<0.001	<0.05	0.02F	8.2	0.0091	20.2	<0.03	<2	<0.0005	0.0021	<0.03	0.05
		9-Dec-08	N	1898.21	1901.09	0.4F	0.078	<0.001	<0.05	0.02F	7.4	0.0099	17.9	<0.03	<2	<0.0005	0.0017	<0.03	0.04F
		16-Dec-08	N	1898.21	1901.09	0.3F	0.079	<0.001	<0.05	0.01F	7.1	0.0044	16.5	<0.03	<2	<0.0005	0.0003F	<0.03	0.03F
		23-Dec-08	N	1898.21	1901.09	0.4F	0.111	--	0.02F	0.02F	8.5	0.0123	18.9	--	<2	<0.0005	0.0025	--	0.06
		30-Dec-08	N	1898.21	1901.09	0.3F	0.054	--	<0.05	<0.05	4.2	0.0079	14.6	--	<2	<0.0005	0.0014	--	0.04F
		6-Jan-09	N	1898.21	1901.09	<1	0.061	--	<0.05	0.02F	5.5	0.0095	12.1	--	<2	<0.0005	0.0016	--	0.05
		13-Jan-09	N	1898.21	1901.09	0.5F	0.1	<0.001	<0.05	0.02F	7.5	0.0113	17.1	<0.03	<2	<0.0005	0.0024	<0.03	0.07
		20-Jan-09	N	1898.21	1901.09	0.7F	0.109	--	<0.05	0.04F	8.5	0.0125	20.5	--	<2	<0.0005	0.0032	--	0.1
		27-Jan-09	N	1898.21	1901.09	0.5F	0.085	--	<0.05	0.02F	7.7	0.0151	21.6	--	<2	<0.0005	0.0028	--	0.09
		3-Feb-09	N	1898.21	1901.09	1	0.15	--	<0.05	0.08	16.2	0.019	48.1	--	<2	<0.0005	0.0052	--	0.18
		10-Feb-09	N	1898.21	1901.09	0.7F	0.11	--	<0.05	0.12	18.8	0.0032	62.3	--	<2	<0.0005	0.0007	--	0.22
		17-Feb-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1898.21	1901.09	<1	0.05	<0.001	<0.05	0.08	13.2	0.0452	73.2	<0.05D2	<2	0.0001F	0.0105	<0.03	0.32D2
		17-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1898.21	1901.09	<1	0.007F	<0.001	<0.05	0.01F	5.6	0.0247B7	77.8	<0.03	<2	<0.0005	0.0041	<0.03	0.03F
		14-Apr-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	TEST 28	28-Apr-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1898.21	1901.09	<1	<0.03	<0.001	<0.05	<0.05	1.4F	0.0081	11.6	<0.03	<2	<0.0005	0.0012	<0.03	<0.05
		12-May-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1898.21	1901.09	<1	0.031	<0.001	<0.05	0.06	8	0.103	130	<0.03	<2	<0.0005	0.0185	<0.05D1	0.15
		9-Jun-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1898.21	1901.09	<1	0.042	<0.001	<0.05	0.18	5.2	0.104B1	115D1	<0.03	<2	0.0001F	0.0183	<0.1D1	0.48D1
		7-Jul-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1898.21	1901.09	<1	0.027F	<0.001	0.02F	0.08	3.1	0.0835	104	<0.05D1	<2	<0.0005	0.0092	<0.03	0.17
		4-Aug-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1898.21	1901.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1898.21	1901.09	<1	0.012F	<0.001	<0.05	0.04F	0.3F	0.0186	30.8	<0.03	<2V1	<0.0005	0.0023	<0.03	0.05
	TEST 29	26-Aug-08	N	1952.56	1954.83	4.6	1.35	<0.001	<0.05	0.06	76.3	0.0021	26.9	<0.03L1	19.1	0.0002F	0.0006	<0.03	0.27
		2-Sep-08	N	1952.56	1954.83	1.4	1.38	<0.001	<0.05	0.07	16.7	0.0034	33	<0.03	0.9F	<0.0005	0.0003F	<0.03	0.04F
		9-Sep-08	N	1952.56	1954.83	0.5	0.611	<0.001	<0.05	0.03	4.6	0.0018	16.1	<0.03	<2	<0.0005	<0.0005	<0.03	0.01
		16-Sep-08	N	1952.56	1954.83	0.8	1.55	<0.001	<0.05	0.1	7.3	0.006	36	<0.03	<2	<0.0005	0.0003	<0.03	0.02
		23-Sep-08	N	1952.56	1954.83	0.6	0.992	<0.001	0.01	0.12	3.7	0.0114	18.5	<0.03	<2	<0.0005	0.0008	<0.03	0.03
		30-Sep-08	N	1952.56	1954.83	0.4	0.308	<0.001	<0.05	0.07	6.8	0.0255	38.2	<0.03	<2	<0.0005	0.0014	<0.03	0.05
		7-Oct-08	N	1952.56	1954.83	<1	0.096	<0.001	<0.05	0.04F	2.6	0.0229	25	<0.03	<2	<0.0005	0.0011	<0.03	0.02F
		14-Oct-08	N	1952.56	1954.83	<1	0.076	<0.001	<0.05	0.03F	2.8	0.0231	22.6	<0.03	<2	<0.0005	0.0011	<0.03	<0.05
		21-Oct-08	N	1952.56	1954.83	<1	0.061	<0.001	<0.05	0.04F	1F	0.0185B4	13.3	<0.03	<2	<0.0005	0.0011	<0.03	<0.05
		28-Oct-08	N	1952.56	1954.83	<1	0.059	<0.001	<0.05	0.04F	1.8F	0.0239	15	<0.03	<2	<0.0005	0.0013	<0.03	<0.05
		4-Nov-08	N	1952.56	1954.83	<1	0.052	<0.001	0.02F	0.04F	1.6F	0.035	17.4	<0.03	<2	<0.0005	0.0019	<0.03	0.01F
	TEST 29S	11-Nov-08	N	1952.56	1954.83	<1	0.015F	<0.001	<0.05	<0.05	0.5F	0.0091	4.2	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		18-Nov-08	N	1952.56	1954.83	<1	0.01F	<0.001	<0.05	<0.05	0.3F	0.0048	2.9	<0.03	<2	<0.0005	0.0002F	<0.03	0.01F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	TEST 29S	25-Nov-08	N	1952.56	1954.83	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0028	1.2F	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		2-Dec-08	N	1952.56	1954.83	<1	0.013F	<0.001	<0.05	<0.05	0.4F	0.0037	2	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		9-Dec-08	N	1952.56	1954.83	<1	0.013F	<0.001	<0.05	<0.05	0.3F	0.005	2.1	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		16-Dec-08	N	1952.56	1954.83	<1	0.018F	<0.001	<0.05	<0.05	<2	0.0027	1F	<0.03	<2	<0.0005	0.0002F	0.008F	<0.05
		23-Dec-08	N	1952.56	1954.83	<1	0.013F	--	0.01F	<0.05	0.4F	0.0029	1.5F	--	<2	<0.0005	0.0002F	--	<0.05
		30-Dec-08	N	1952.56	1954.83	<1	<0.03	--	<0.05	<0.05V1	<2	0.0029	1.8F	--	<2	<0.0005	0.0002F	--	<0.05
		6-Jan-09	N	1952.56	1954.83	<1	0.007F	--	<0.05	<0.05	<2	0.0032	1.1F	--	<2	<0.0005	0.0002F	--	<0.05
		13-Jan-09	N	1952.56	1954.83	<1	<0.03	<0.001	<0.05	<0.1D1	<2	0.0028	1.1F	<0.05D1	<2	<0.0005	0.0002F	<0.05D1	<0.05
		20-Jan-09	N	1952.56	1954.83	<1	0.007F	--	<0.05	<0.05	<2	0.0028	1.1F	--	<2	<0.0005	0.0003F	--	<0.05
		27-Jan-09	N	1952.56	1954.83	<1	0.009F	--	<0.05	<0.05	<2	0.0031	1.1F	--	<2	<0.0005	0.0002F	--	<0.05
		3-Feb-09	N	1952.56	1954.83	<1	0.009F	--	<0.05	<0.05	<2	0.0033	1.2F	--	<2	<0.0005	0.0003F	--	<0.05
		10-Feb-09	N	1952.56	1954.83	<1	0.008F	<0.001H3	<0.05	<0.05	<2	0.0043	1.5F	<0.03	<2	<0.0005	0.0004F	<0.03	0.01F
		17-Feb-09	N	1952.56	1954.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 30	26-Aug-08	N	1954.83	1972	2.7	0.22	<0.001	0.02F	0.02F	17.2	0.0035	3.2	<0.03L1	23.4	0.0001F	<0.0005	<0.03	0.03F
		2-Sep-08	N	1954.83	1972	2.6	0.258	<0.001	0.01F	0.01F	14	0.0036	6.3	<0.03	13.6	0.0001F	<0.0005	<0.03	0.02F
		9-Sep-08	N	1954.83	1972	2.6	0.341	<0.001	<0.05	0.06	12.1	0.0031	6.3	<0.03	7.4	<0.0005	<0.0005	<0.03	0.04
		16-Sep-08	N	1954.83	1972	2.3	0.308	<0.001	<0.05	0.04	9.6	0.0019	6.9	<0.03	3.9	<0.0005	<0.0005	<0.03	0.05
		23-Sep-08	N	1954.83	1972	2.5	0.361	<0.001	<0.05	0.06	10	0.0018	8.5	<0.03	2.8	0.0001	0.0002	<0.03	0.07
		30-Sep-08	N	1954.83	1972	2.1	0.331	<0.001	<0.05	0.06	8.3	0.0023	8	<0.03	1.6	0.0001	0.0003	<0.03	0.09
		7-Oct-08	N	1954.83	1972	2.4	0.336	<0.001	<0.05	0.08	6.8	0.0031	8.1	<0.03	1F	<0.0005	0.0004F	<0.03	0.1
		14-Oct-08	N	1954.83	1972	2.2	0.262	<0.001	<0.05	0.05	4.3	0.0023	8.7	<0.03	0.6F	<0.0005	0.0002F	<0.03	0.06
		21-Oct-08	N	1954.83	1972	2.5	0.267	<0.001	<0.05	0.06	3.8	0.0026	7.7	<0.03	0.5F	<0.0005	0.0003F	<0.03	0.02F
		28-Oct-08	N	1954.83	1972	2.5	0.243	<0.001	<0.05	0.04F	3.1	0.0029	8.2	<0.03	0.4F	<0.0005	0.0002F	<0.03	0.02F
		4-Nov-08	N	1954.83	1972	3.2	0.29	<0.001	0.02F	0.04F	2.8	0.0051	10.1	<0.03	0.5F	<0.0005	0.0004F	<0.03	0.08
		11-Nov-08	N	1954.83	1972	2.9	0.25	<0.001	0.02F	0.04F	2.2	0.0041	9	<0.03	0.4F	<0.0005	0.0003F	<0.03	0.02F
		18-Nov-08	N	1954.83	1972	2.7	0.235	<0.001	0.02F	0.03F	1.9F	0.0045	8.8	<0.03	0.4F	<0.0005	0.0003F	<0.03	0.07
		25-Nov-08	N	1954.83	1972	3	0.253	<0.001	<0.05	0.03F	1.7F	0.0046	10.3	<0.03	0.4F	<0.0005	0.0004F	<0.03	0.06
		2-Dec-08	N	1954.83	1972	2.2	0.2	<0.001	<0.05	0.02F	1.5F	0.0036	6.9	<0.03	<2	<0.0005	0.0003F	<0.03	0.03F
		9-Dec-08	N	1954.83	1972	2.3	0.193	<0.001	<0.05	0.03F	1.4F	0.0046	7.4	<0.03	<2	<0.0005	0.0003F	<0.03	0.04F
		16-Dec-08	N	1954.83	1972	2.1	0.183	<0.001	<0.05	0.02F	1.1F	0.0095	7.8	<0.03	<2	<0.0005	0.0019	<0.03	0.04F
		23-Dec-08	N	1954.83	1972	2.1	0.191	--	<0.05	0.03F	1.2F	0.0051	7.5	--	0.4F	<0.0005	0.0004F	--	0.06

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	TEST 30	30-Dec-08	N	1954.83	1972	1.8	0.154	--	<0.05	0.03F	1.1F	0.0047	7.3	--	<2	<0.0005	0.0004F	--	0.06
		6-Jan-09	N	1954.83	1972	1.6	0.151	--	<0.05	0.02F	1.1F	0.0049	7.2	--	<2	<0.0005	0.0004F	--	0.07
		13-Jan-09	N	1954.83	1972	1.7	0.141	<0.001	<0.05	0.02F	1F	0.0056	7M1	<0.03M2	<2	<0.0005	0.0005	<0.03	0.05
		20-Jan-09	N	1954.83	1972	1.6	0.135	--	<0.05L1M1	0.02F	0.9F	0.0054	7.8M1	--	<2	<0.0005	0.0004F	--	0.06
		27-Jan-09	N	1954.83	1972	1.4	0.124	--	<0.05L1M1	0.02F	0.9F	0.0059	9M1	--	<2	0.0002F	0.0004F	--	0.07
		3-Feb-09	N	1954.83	1972	1.6	0.13	--	<0.05	0.03F	0.9F	0.0066	7.2M1	--	<2	<0.0005	0.0005	--	0.08
		10-Feb-09	N	1954.83	1972	1.4	0.122	--	<0.05M1	0.03F	1.2F	0.0042	7.8	--	<2	<0.0005	0.0004F	--	0.08
		17-Feb-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1954.83	1972	0.9F	0.099	<0.001	<0.05	0.01F	0.6F	0.0072	6.8	<0.03	<2	<0.0005	0.0005	<0.03	0.16
		17-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1954.83	1972	0.7F	0.073	<0.001	<0.05	<0.05	0.6F	0.0081B7	7.3	<0.03	<2	<0.0005	0.0005	<0.03	0.05
		14-Apr-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1954.83	1972	0.9F	0.094	<0.001	<0.05	0.02F	0.5F	0.0123	8.2	<0.03	<2	<0.0005	0.0007	<0.03	0.08
		12-May-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1954.83	1972	0.5F	0.099	<0.001	<0.05	0.02F	0.7F	0.0205	8.4	<0.03	<2	<0.0005	0.0012	<0.05D1	0.06
		9-Jun-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1954.83	1972	0.4F	0.114	<0.001	0.01F	0.04F	0.8F	0.0252B1	8.1D1	0.02F	<2	<0.0005	0.0021	<0.05D1	0.22D1
		7-Jul-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1954.83	1972	0.5F	0.128	<0.001	<0.05	0.04F	0.9F	0.0375	8.7	<0.05D1	<2	<0.0005	0.003	<0.03	0.13

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	TEST 30	4-Aug-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1954.83	1972	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1954.83	1972	0.5F	0.09	<0.001	<0.05	0.05	0.7F	0.0346	12.8	<0.05D1	<2V1	<0.0005	0.0028	<0.03	0.13D1
	TEST 31	26-Aug-08	N	1980.6	1983.6	27.4	4.81	<0.001	<0.05	1.07	61.5	0.0281D1B7	71.7	<0.05D1	20.1	0.0008	0.0656	0.106	19.7
		2-Sep-08	N	1980.6	1983.6	0.7F	0.262	<0.001	<0.05	0.02F	11	0.0129	23.7	<0.03	<2	<0.0005	0.0015	<0.03	2.38
		9-Sep-08	N	1980.6	1983.6	1	0.391	<0.001	<0.05	0.05	10.4	0.0213	41.5	<0.03M2	0.4	<0.0005	0.0021	<0.03	7.53M3
		16-Sep-08	N	1980.6	1983.6	0.5	0.192	<0.001	<0.05	0.02	7.4	0.0161	31.6	<0.03M2	<2	<0.0005	0.0021	<0.03	6.44M3
		23-Sep-08	N	1980.6	1983.6	0.4	0.15	<0.001	<0.05	0.06	3.1	0.0241	18.5	<0.03M2	<2	<0.0005	0.0054	<0.03	16.2M3
		30-Sep-08	N	1980.6	1983.6	0.8	0.218	<0.001	<0.05	0.09	6.8	0.0427	38.9	<0.03M2	<2	<0.0005	0.0084	<0.03	27M3
		7-Oct-08	N	1980.6	1983.6	0.3F	0.077	<0.001	<0.05	0.13	5.9	0.0546	34.2	<0.03M2	<2	<0.0005	0.0067	<0.03	28.4M3
		14-Oct-08	N	1980.6	1983.6	<1	0.022F	<0.001	<0.05	0.02F	2.8	0.0186	25.8	<0.03M2	<2	<0.0005	0.0019	<0.03	8.94M3
		21-Oct-08	N	1980.6	1983.6	<1	0.022F	<0.001	<0.05	0.05	2.1	0.0242B7	21.4	<0.03M2	<2	<0.0005	0.0023	<0.03	12.1M3
		28-Oct-08	N	1980.6	1983.6	0.3FM1	0.023F	<0.001	<0.05M1	0.04F	1.6FM1	0.0267	18.7	<0.03M2	<2M1	<0.0005	0.0037	<0.03M1	15.3M3
		4-Nov-08	N	1980.6	1983.6	<1	0.009F	<0.001	0.02F	0.02F	<2	0.0063	3.2M1	<0.03M2	<2	<0.0005	0.001	<0.03	4.63
	TEST 31S	11-Nov-08	N	1980.6	1983.6	0.2F	0.021F	<0.001	0.01F	0.04F	1.5F	0.0283	15.9	<0.03	<2	<0.0005	0.0115	<0.03	22.2
		18-Nov-08	N	1980.6	1983.6	<1	0.005F	<0.001	0.02F	<0.05	0.4F	0.0059	6.8	<0.03M2	<2	<0.0005	0.002	<0.03	6.17M3
		25-Nov-08	N	1980.6	1983.6	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0031	3.7	<0.03M2	<2	<0.0005	0.0013	<0.03	3.82M3
		2-Dec-08	N	1980.6	1983.6	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0027	3.9	<0.03M2	<2	<0.0005	0.0014	<0.03	4.99M3
		9-Dec-08	N	1980.6	1983.6	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0023	2.9	<0.03M2	<2	<0.0005	0.0008	<0.03	3.66M3
		16-Dec-08	N	1980.6	1983.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1980.6	1983.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 32	26-Aug-08	N	2091.13	2094.13	376M3	1.72	<0.001	0.03F	0.07	238	0.225B7	24.7	<0.03L1	214M2	0.0004F	0.0024	0.007F	0.05
		2-Sep-08	N	2091.13	2094.13	9.6	0.026F	<0.001	0.02F	<0.05	20.7	0.0079	5.3	<0.03M2	2.7	<0.0005	0.0004F	<0.03	<0.05
		9-Sep-08	N	2091.13	2094.13	4.3	0.016	<0.001	<0.05	<0.05	9.8	0.0035	2.7	<0.03	1.4	<0.0005	0.0001	<0.03	<0.05
		16-Sep-08	N	2091.13	2094.13	2.1	<0.03	<0.001	<0.05	<0.05	8.4	0.0031	2.1	<0.03	0.9	<0.0005	<0.0005	<0.03	<0.05
		23-Sep-08	N	2091.13	2094.13	16.9	0.072	<0.001	0.05	<0.05	20.8	0.0215	3.8	<0.03	3.3	<0.0005	<0.0005	<0.03	<0.05
		30-Sep-08	N	2091.13	2094.13	14	0.07	<0.001	0.01	<0.05	14.2	0.0238	1.7	<0.03	1.1	<0.0005	<0.0005	<0.03	0.01
		7-Oct-08	N	2091.13	2094.13	17.8	0.108	<0.001	0.01F	<0.05	17.9	0.0311	2.6	<0.03	1.7F	<0.0005	<0.0005	<0.03	<0.05
		14-Oct-08	N	2091.13	2094.13	16.9	0.116	<0.001	0.01F	<0.05	17.8	0.0275	2.7	<0.03	1.2F	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	2091.13	2094.13	8.6	0.043	<0.001	0.01F	<0.05	17.6	0.0148	3.5	<0.03	0.4F	<0.0005	<0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-006D	TEST 32	28-Oct-08	N	2091.13	2094.13	10.1	0.062	<0.001	0.01F	<0.05	18.6	0.0221	3.7	<0.03	0.5F	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	2091.13	2094.13	16.8	0.143	<0.001	0.02F	<0.05	21	0.039	5.4	<0.03	0.5F	<0.0005	<0.0005	<0.03	<0.05
	TEST 32S	11-Nov-08	N	2091.13	2094.13	32.2	0.288	<0.001	0.03F	<0.05	33.2	0.0537	4.4	<0.03	0.6F	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	2091.13	2094.13	6.1	0.069	<0.001	0.02F	<0.05	7.2	0.0095	1F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	2091.13	2094.13	5.1	0.054	<0.001	<0.05	<0.05	5.1	0.0074B3	0.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	2091.13	2094.13	5.2	0.052	<0.001	<0.05	<0.05	5.1	0.0055	0.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	2091.13	2094.13	6.3	0.06	<0.001	<0.05	<0.05	5.3	0.0078	0.4F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	2091.13	2094.13	7.9	0.087	<0.001	<0.05	<0.05	4.2D1	0.0083	0.5F	<0.03	0.4F	<0.0005	<0.0005	<0.03	<0.1D1
		23-Dec-08	N	2091.13	2094.13	7.6	0.091	--	<0.05	<0.05	5	0.0082	0.5F	--	0.4F	<0.0005	<0.0005	--	<0.05
		30-Dec-08	N	2091.13	2094.13	7.4	0.088	--	<0.05	<0.05	4.7	0.0079	0.5F	--	<2	<0.0005	<0.0005	--	<0.05
		6-Jan-09	N	2091.13	2094.13	10.4	0.124	--	<0.05	<0.05	6.1	0.0099	0.6F	--	<2	<0.0005	<0.0005	--	<0.05
		13-Jan-09	N	2091.13	2094.13	10.3	0.13	<0.001	<0.05	<0.05	5.4	0.0112	0.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	2091.13	2094.13	12.2	0.166	--	<0.05L1	<0.05	5.6	0.0109	0.7F	--	<2	<0.0005	<0.0005	--	0.01F
		27-Jan-09	N	2091.13	2094.13	10.9	0.147	--	<0.05	<0.05	5.5	0.01	0.7F	--	<2	0.0002F	<0.0005	--	0.01F
		3-Feb-09	N	2091.13	2094.13	12.1	0.162	--	<0.05	<0.05	5.5	0.0108	0.7F	--	<2	<0.0005	<0.0005	--	0.01F
		10-Feb-09	N	2091.13	2094.13	11.6	0.163	<0.001H3	<0.05	<0.05	5.2	0.0121	0.6F	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05
		17-Feb-09	N	2091.13	2094.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-008A	TEST 33	26-Aug-08	N	1597	1600	0.9F	0.023F	<0.001M2	<0.05	<0.05	7.1	0.0003F	20.9	<0.03L1M2	25.6	<0.0005	0.0004F	<0.03	<0.05
		2-Sep-08	N	1597	1600	0.4F	0.022F	<0.001	<0.05	0.02F	3.8	0.0002F	20.2	<0.03	17.9	<0.0005	0.0003F	<0.03	<0.05
		9-Sep-08	N	1597	1600	0.4	0.017	<0.001	<0.05	<0.05	3.3	<0.0005	21.3	<0.03	13.6	<0.0005	0.0003	0.006	<0.05
		16-Sep-08	N	1597	1600	0.3	0.021	<0.001	<0.05	<0.05	2.9	0.0002	21.7	<0.03	10.9	<0.0005	0.0004	<0.03	<0.05
		23-Sep-08	N	1597	1600	<1	0.017	<0.001	<0.05	<0.05	2.8	0.0002	18.4	<0.03	8.7	<0.0005	0.0002	<0.03	<0.05
		30-Sep-08	N	1597	1600	0.2	0.017	<0.001	<0.05	<0.05	3.3	0.0001	21.2	<0.03	8	<0.0005	0.0003	<0.03	<0.05
		7-Oct-08	N	1597	1600	<1	0.021F	<0.001	<0.05	<0.05	2.7	0.0003F	18.8	<0.03	6.4	<0.0005	0.0002F	<0.03	<0.05
		14-Oct-08	N	1597	1600	0.3F	0.028F	<0.001	<0.05	<0.05	2.7	<0.0005	20.4	<0.03	5.9	<0.0005	0.0002F	<0.03	<0.05
		21-Oct-08	N	1597	1600	0.2F	0.04	<0.001	<0.05	<0.05	2.3	0.0002F	17.8	<0.03	4.9	<0.0005	0.0002F	<0.03	<0.05
		28-Oct-08	N	1597	1600	0.5F	0.034	<0.001	<0.05	<0.05	2.4	<0.0005	20	<0.03	4.6	<0.0005	0.0002F	<0.03	<0.05
		4-Nov-08	N	1597	1600	0.4F	0.035	<0.001	0.01F	0.02F	2.3	0.0002F	22.7	<0.03	3.5	<0.0005	0.0002F	<0.03	<0.05
		11-Nov-08	N	1597	1600	0.4F	0.029F	<0.001	<0.05	<0.05	2	<0.0005	18.9	<0.03	3	<0.0005	0.0002F	<0.03	<0.05
		18-Nov-08	N	1597	1600	0.4F	0.033	<0.001	<0.05	<0.05	2.2	0.0002FM1	22.4	<0.03	2.8	<0.0005	<0.0005	0.005F	<0.05
		25-Nov-08	N	1597	1600	0.3F	0.035	<0.001	<0.05	<0.05	1.7F	0.0001F	16.6	<0.03	2	<0.0005	<0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 33	2-Dec-08	N	1597	1600	0.3F	0.037	<0.001	<0.05	<0.05	2.1	<0.0005	16.7	<0.03	1.9F	<0.0005	0.0002F	<0.03	<0.05
		9-Dec-08	N	1597	1600	0.3F	0.028F	<0.001	<0.05	<0.05	2	<0.0005	16.9	<0.03	1.5F	<0.0005	0.0002F	<0.03	<0.05
		16-Dec-08	N	1597	1600	0.2F	0.039	<0.001	<0.05	<0.05	1.7F	<0.0005	13.4	<0.03	1.2F	<0.0005	0.0002F	<0.03	<0.05
		23-Dec-08	N	1597	1600	<1	0.039	--	<0.05	<0.05	1.6F	<0.0005	14.4	--	1F	<0.0005	0.0002F	--	<0.05
		30-Dec-08	N	1597	1600	0.3F	0.037	--	<0.05	<0.05	1.7F	<0.0005	17.2	--	1.1F	<0.0005	0.0002F	--	<0.05
		6-Jan-09	N	1597	1600	<1	0.043	--	0.01F	<0.05	1.6F	<0.0005	15.7	--	0.9F	<0.0005	0.0002F	--	<0.05
		13-Jan-09	N	1597	1600	0.4F	0.047	<0.001	<0.05	<0.05	1.7F	0.0001F	19	<0.03	0.9F	<0.0005	0.0002F	<0.03	<0.05
		20-Jan-09	N	1597	1600	0.5F	0.062	--	<0.05L1	<0.05	1.6F	<0.0005	18.8	--	0.7F	<0.0005	0.0002F	--	<0.05
		27-Jan-09	N	1597	1600	0.4F	0.045	--	<0.05	0.01F	1.4F	<0.0005	14.2	--	0.5F	0.0002F	0.0001F	--	<0.05
		3-Feb-09	N	1597	1600	0.5F	0.035	--	0.01F	<0.05	1.6F	<0.0005	19.4	--	0.6F	<0.0005	0.0002F	--	<0.05
		10-Feb-09	N	1597	1600	0.4F	0.049	<0.001H3	<0.05	<0.05	1.4F	<0.0005	16.3	<0.03	0.5F	<0.0005	0.0002F	<0.03	<0.05
		17-Feb-09	N	1597	1600	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 34	26-Aug-08	N	1717	1720	4.4	0.58	<0.001	<0.05	<0.05	19.4	0.0029	4.3	<0.03L1	26.4	<0.0005	0.0009	<0.03	<0.05
		2-Sep-08	N	1717	1720	2.5	0.145	<0.001	<0.05	<0.05	10.9	0.003	4	<0.03	18.1	<0.0005	0.0003F	<0.03	<0.05
		9-Sep-08	N	1717	1720	2.1	0.152	<0.001	<0.05	0.01	8.8	0.0017	4.5	<0.03	12.1	<0.0005	0.0002	<0.03	<0.05
		16-Sep-08	N	1717	1720	2.1	0.165	<0.001	<0.05	<0.05	8.7	0.0013	4.6	<0.03	9.9	<0.0005	0.0002	<0.03	<0.05
		23-Sep-08	N	1717	1720	1.2	0.11	<0.001	<0.05	<0.05	6.7	0.0008	3.6	<0.03	5.4	<0.0005	0.0001	<0.03	<0.05
		30-Sep-08	N	1717	1720	1	0.108	<0.001	<0.05	<0.05	6.3	0.0008	3.5	<0.03	3.9	<0.0005	0.0001	<0.03	<0.05
		7-Oct-08	N	1717	1720	1	0.106	<0.001	<0.05	<0.05	6.3	0.0008	3.9	<0.03	3.3	<0.0005	0.0001F	<0.03	<0.05
		14-Oct-08	N	1717	1720	1	0.109	<0.001	<0.05	<0.05	5	0.0005	3.3	<0.03	2.4	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	1717	1720	0.6F	0.09	<0.001	<0.05	<0.05	4.5	0.0005	4.1	<0.03	1.6F	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	1717	1720	0.7F	0.088	<0.001	<0.05	<0.05	3.9	0.0004F	3.1	<0.03	1.2F	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	1717	1720	0.8F	0.094	<0.001	<0.05	<0.05	4.2	0.0007	3.9	<0.03	1.1F	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	N	1717	1720	0.6F	0.091	<0.001	<0.05	<0.05	3	0.0005	3.1	<0.03	0.7F	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	1717	1720	0.5F	0.089	<0.001	<0.05	<0.05	3.2	0.0004F	3.4	<0.03	0.6F	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1717	1720	0.5F	0.076	<0.001	<0.05	<0.05	2.7	0.0003F	2.8	<0.03	0.4F	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1717	1720	0.5F	0.105	<0.001	<0.05	<0.05	3.2	0.0003F	2.7	<0.03	0.5F	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1717	1720	0.4F	0.083	<0.001	<0.05	<0.05	2.8	0.0003F	2.4	<0.03	0.3F	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1717	1720	0.4F	0.103	<0.001	<0.05	<0.05	2.4	0.0002F	2.2	<0.03	0.3F	<0.0005	<0.0005	0.005F	<0.05
		23-Dec-08	N	1717	1720	0.3F	0.099	--	<0.05	<0.05	2.5	0.0002F	2.3	--	<2	<0.0005	<0.0005	--	<0.05
		30-Dec-08	N	1717	1720	0.3F	0.09	--	<0.05	<0.05	2.2	0.0002F	2.2	--	0.5F	<0.0005	<0.0005	--	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 34	6-Jan-09	N	1717	1720	<1	0.086	--	<0.05	<0.05	2.4	0.0002F	2.4	--	<2	<0.0005	<0.0005	--	<0.05
		13-Jan-09	N	1717	1720	0.4F	0.079	<0.001	<0.05	<0.05	2.2	0.0003F	3.2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	1717	1720	0.4F	0.081	--	<0.05L1	<0.05	2.4	0.0002F	4.1	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	1717	1720	0.4F	0.089	--	<0.05	<0.05	2.2	0.0001F	2.9	--	<2	0.0003F	<0.0005	--	<0.05
		3-Feb-09	N	1717	1720	0.4F	0.08	--	<0.05	<0.05	2.2	0.0002F	3.5	--	<2	<0.0005	<0.0005	--	<0.05
		10-Feb-09	N	1717	1720	2.1	0.096	--	0.02F	<0.05	5.5	<0.001D1	3.4	--	3.3	<0.0005	<0.0005	--	0.02F
		17-Feb-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1717	1720	<1	0.082	<0.001	<0.05	<0.05	2.1	0.0002F	3.2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05L1
		17-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1717	1720	0.3F	0.085	<0.001	<0.05	<0.05	1.6F	<0.0005	2.8	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		14-Apr-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1717	1720	0.3F	0.098	<0.001	<0.05	<0.05	1.6F	0.0001F	2.9	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05
		12-May-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1717	1720	0.2F	0.117	<0.001	<0.05	<0.05	2.2	0.0003F	3.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Jun-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1717	1720	0.3F	0.171	<0.001	<0.05	<0.05	2.4	0.0004F	4	0.01F	<2	<0.0005	<0.0005	<0.03	<0.05
		7-Jul-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1717	1720	0.5F	0.231	<0.001	<0.05	<0.05	2.3	0.0004F	4.2	<0.05D1	<2	<0.0005	<0.0005	<0.03	<0.05
		4-Aug-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 34	11-Aug-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1717	1720	0.7F	0.312	<0.001	<0.05	0.01F	2.4	0.0003F	4.6	<0.03	<2V1	<0.0005	<0.0005	<0.03	0.02F
		1-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1717	1720	0.5F	0.303	<0.001	0.01F	<0.05	1.7F	0.0003F	3	<0.03	<2	<0.0005	<0.0005	<0.03	0.05
		29-Sep-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1717	1720	0.4F	0.223	<0.001	<0.05	<0.05	1.3F	0.0002F	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	0.05
		27-Oct-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1717	1720	<1	0.218	<0.001	<0.05	<0.05	0.9F	0.0002F	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	0.05
		24-Nov-09	N	1717	1720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 35	26-Aug-08	N	1844.1	1846.6	25.5	3.14	<0.001	<0.05	<0.05	15.2	0.0173B7	6.4	<0.03L1	36.5	0.0001F	0.0028	<0.03	0.23
		2-Sep-08	N	1844.1	1846.6	11.5	0.546	<0.001	<0.05	<0.05	8.7	0.0166	6	<0.03	19.4	<0.0005	0.0008	<0.03	<0.05
		9-Sep-08	N	1844.1	1846.6	9	0.545	<0.001	<0.05	<0.05	6.7	0.0101	6	<0.03	11.3	<0.0005	0.0005	<0.03	0.01
		16-Sep-08	N	1844.1	1846.6	8	0.539	<0.001	<0.05	<0.05	5.5	0.0063	6	<0.03	7.1	<0.0005	0.0004	<0.03	0.01
		23-Sep-08	N	1844.1	1846.6	6.7	0.425	<0.001	<0.05	<0.05	4.6	0.004	4.5	<0.03	4.3	<0.0005	0.0002	<0.03	<0.05
		30-Sep-08	N	1844.1	1846.6	5.9	0.385	<0.001	<0.05	<0.05	4.8	0.0041	4.8	<0.03	2.9	<0.0005	0.0003	<0.03	<0.05
		7-Oct-08	N	1844.1	1846.6	5.1	0.3	<0.001	<0.05	<0.05	3.5	0.0032	3.7	<0.03	1.9F	<0.0005	0.0002F	<0.03	<0.05
		14-Oct-08	N	1844.1	1846.6	5.6	0.399	<0.001	<0.05	<0.05	3.6	0.0025	4.3	<0.03	1.5F	<0.0005	0.0002F	<0.03	<0.05
		21-Oct-08	N	1844.1	1846.6	4.6	0.351	<0.001	<0.05	<0.05	2.8	0.0021	4	<0.03	0.9F	<0.0005	0.0002F	0.005F	<0.05
		28-Oct-08	N	1844.1	1846.6	4.4	0.395	<0.001	<0.05	<0.05	2.8	0.0024	4	<0.03	0.7F	<0.0005	0.0001F	<0.03	0.01F
		4-Nov-08	N	1844.1	1846.6	3.7	0.283	<0.001	0.01F	<0.05	2.3	0.003M1	4.4	<0.03	0.4F	<0.0005	0.0001F	<0.03	<0.05
		11-Nov-08	N	1844.1	1846.6	4.2	0.334	<0.001	<0.05	<0.05	2.2	0.0024	3.4	<0.03	0.4F	<0.0005	0.0002F	0.006F	<0.05
		18-Nov-08	N	1844.1	1846.6	3.2	0.317	<0.001	<0.05	<0.05	2	0.0021	4.2	<0.03	<2	<0.0005	0.0001F	0.005F	<0.05
		25-Nov-08	N	1844.1	1846.6	3	0.332	<0.001	<0.05	<0.05	1.8F	0.0018	3.3	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		2-Dec-08	N	1844.1	1846.6	2.9	0.351	<0.001	<0.05	<0.05	2.1	0.0014	3.3	<0.03	<2	<0.0005	0.0001F	<0.03	0.01F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 35	9-Dec-08	N	1844.1	1846.6	2.5	0.301	<0.001	<0.05	<0.05	1.8F	0.0015	3.2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1844.1	1846.6	2.2	0.29	<0.001	<0.05	<0.05	1.5F	0.0012	2.7	<0.03	<2	<0.0005	<0.0005	0.006F	<0.05
		23-Dec-08	N	1844.1	1846.6	2	0.295	--	<0.05	<0.05	1.5F	0.0012	2.7	--	<2	<0.0005	0.0001F	--	<0.05
		30-Dec-08	N	1844.1	1846.6	2.8	0.412	--	<0.05	<0.05	1.8F	0.0014	4.1	--	0.8F	<0.0005	0.0001F	--	<0.05
		6-Jan-09	N	1844.1	1846.6	2	0.306	--	<0.05	<0.05	1.5F	0.0011	3.3	--	<2	<0.0005	<0.0005	--	<0.05
		13-Jan-09	N	1844.1	1846.6	1.8	0.233	<0.001	<0.05	<0.05	1.2F	0.0012	3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	1844.1	1846.6	1.9	0.241	--	<0.05L1	<0.05	1.3F	0.0011	3.3	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	1844.1	1846.6	1.8	0.244	--	<0.05	<0.05	1.2F	0.001	2.6	--	<2	0.0001F	<0.0005	--	<0.05
		3-Feb-09	N	1844.1	1846.6	1.9	0.237	--	<0.05	<0.05	1.3F	0.0013	3.6	--	<2	<0.0005	0.0001F	--	<0.05
		10-Feb-09	N	1844.1	1846.6	2.4	0.201	--	0.02F	<0.05	3.1	0.0005FD1	2.8	--	1.9F	<0.0005	<0.0005	--	0.01F
		17-Feb-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1844.1	1846.6	1.4	0.246	<0.001	<0.05	<0.05	1F	0.0013	3	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05L1M1
		17-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1844.1	1846.6	1.2	0.233	<0.001	0.01F	<0.05	1F	0.0007	2.9	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05
		14-Apr-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1844.1	1846.6	1.1	0.216	<0.001	<0.05	<0.05	1F	0.0008	2.6	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		12-May-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1844.1	1846.6	1.1	0.204	<0.001	<0.05	<0.05	1F	0.0014	3.1	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Jun-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1844.1	1846.6	1.2	0.217	<0.001	<0.05	<0.05	1.3F	0.0015	3.7M1	<0.03M2	<2	<0.0005	<0.0005	<0.03	<0.05
		7-Jul-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 35	14-Jul-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1844.1	1846.6	1.9M1	0.319	<0.001	<0.05	<0.05	1.4F	0.0019	3.6M1	<0.03M2	<2	<0.0005	<0.0005	<0.03M1	<0.05M1
		4-Aug-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1844.1	1846.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1844.1	1846.6	1.9	0.356	<0.001	<0.05	<0.05	1.4F	0.0017	4.9M1	0.01F	<2V1M1	<0.0005	<0.0005	<0.03	<0.05
	TEST 36	26-Aug-08	N	1979.95	1982.94	27.9	5.26	<0.001	<0.05	0.04F	9.4	0.0756B7	2.6	<0.03L1	18.6	0.0001F	0.0112	<0.03	0.13
		2-Sep-08	N	1979.95	1982.94	19.7	2.27	<0.001	<0.05	<0.05	6.7	0.0831	3.2	<0.03	13.7	<0.0005	0.0057	<0.03	<0.05
		9-Sep-08	N	1979.95	1982.94	14.3	2.32	<0.001	<0.05	0.02	4.9	0.0544	2.7	<0.03	7.6	<0.0005	0.003	<0.03	<0.05
		16-Sep-08	N	1979.95	1982.94	11.9	2.08	<0.001	<0.05	<0.05	3.7	0.0335	2.1	<0.03	4.9	<0.0005	0.0017	<0.03	<0.05
		23-Sep-08	N	1979.95	1982.94	9	1.82	<0.001	0.01	<0.05	3	0.0163	2	<0.03	2.2	<0.0005	0.0021	0.007	<0.05
		30-Sep-08	N	1979.95	1982.94	9.3	2.22	<0.001	<0.05	<0.05	3.5	0.0154	2.2	<0.03	1.5	<0.0005	0.0031	<0.03	<0.05
		7-Oct-08	N	1979.95	1982.94	8.9	2.32	<0.001	<0.05	<0.05	2.7	0.0124	2	<0.03	0.8F	<0.0005	0.0022	<0.03	<0.05
		14-Oct-08	N	1979.95	1982.94	7.4	2.48	<0.001	<0.05	<0.05	2.3	0.0075	2	<0.03	0.4F	<0.0005	0.0022	<0.03	<0.05
		21-Oct-08	N	1979.95	1982.94	6.1	2.26	<0.001	<0.05	<0.05	1.9F	0.0064	1.8F	<0.03	<2	<0.0005	0.0013	0.008F	<0.05
		28-Oct-08	N	1979.95	1982.94	5.3	2.27	<0.001	<0.05	0.01F	1.9F	0.0059	1.6F	<0.03	<2	<0.0005	0.0017	0.007F	<0.05
		4-Nov-08	N	1979.95	1982.94	4.4	2.43	<0.001	<0.05	<0.05	1.9F	0.0068	2.5	<0.03	<2	<0.0005	0.0024	<0.03	<0.05
		11-Nov-08	N	1979.95	1982.94	2.9	1.87	<0.001	<0.05	<0.05	1.4F	0.0042	2.1	<0.03	<2	<0.0005	0.0021	<0.03	<0.05
		18-Nov-08	N	1979.95	1982.94	2.9	2	<0.001	<0.05	<0.05	1.5F	0.0046	2.2	<0.03	<2	<0.0005	0.0023	0.006F	<0.05
		25-Nov-08	N	1979.95	1982.94	2.8	2.18	<0.001	<0.05	<0.05	1.2F	0.0046B3	1.7F	<0.03	<2	<0.0005	0.0019	<0.03	<0.05
		2-Dec-08	N	1979.95	1982.94	2.2	2.16	<0.001	<0.05	<0.05	1.3F	0.003	1.9F	<0.03	<2	<0.0005	0.002	<0.03	<0.05
		9-Dec-08	N	1979.95	1982.94	1.7	1.8	<0.001	<0.05	<0.05	1.1F	0.0033	1.3F	<0.03	<2	<0.0005	0.0011	<0.03	<0.05
		16-Dec-08	N	1979.95	1982.94	1.2	1.7	<0.001	<0.05	<0.05	0.8F	0.002	1.5F	<0.03	<2	<0.0005	0.0011	<0.03	<0.05
		23-Dec-08	N	1979.95	1982.94	1	1.72	--	<0.05	<0.05	0.8F	0.0022	1.2F	--	<2	<0.0005	0.0015	--	<0.05
		30-Dec-08	N	1979.95	1982.94	1.3	2.02	--	<0.05	<0.05	1F	0.002	1.6F	--	<2	<0.0005	0.0015	--	<0.05
		6-Jan-09	N	1979.95	1982.94	0.9F	1.57	--	<0.05	<0.05	0.9F	0.0026	1.3F	--	<2	<0.0005	0.0012	--	<0.05
		13-Jan-09	N	1979.95	1982.94	0.9F	1.51	<0.001	<0.05	<0.05	0.7F	0.0024	1.4F	<0.03	<2	<0.0005	0.0012	<0.03	<0.05
		20-Jan-09	N	1979.95	1982.94	0.8F	1.48	--	<0.05L1	<0.05	0.7F	0.0025	1.4F	--	<2	<0.0005	0.0008	--	<0.05
		27-Jan-09	N	1979.95	1982.94	0.8F	1.66	--	<0.05	<0.05	0.8F	0.0022	1.3F	--	<2	0.0002F	0.001	--	<0.05
		3-Feb-09	N	1979.95	1982.94	0.7F	1.47	--	<0.05	<0.05	0.8F	0.0021	1.4F	--	<2	<0.0005	0.0008	--	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 36	10-Feb-09	N	1979.95	1982.94	0.6F	1.61	--	0.01F	<0.05	1F	<0.0005	1.6F	--	<2	<0.0005	0.0007	--	<0.05
		17-Feb-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1979.95	1982.94	0.5F	1.48	<0.001	<0.05	<0.05	1F	0.0017	1.3F	<0.03	0.3F	<0.0005	0.0009	<0.03	<0.05L1
		17-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1979.95	1982.94	0.5F	1.19	<0.001	0.01FM1	<0.05	0.5F	0.0017	1.4	<0.03	<2	<0.0005	0.0005	<0.03	<0.05
		14-Apr-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1979.95	1982.94	0.5F	1.4	<0.001	<0.05	<0.05	0.7F	0.002	1.2F	<0.03	<2	<0.0005	0.0003F	<0.03	<0.05
		12-May-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1979.95	1982.94	0.4F	1.38	<0.001	<0.05	<0.05	0.9F	0.0026	1.4F	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		9-Jun-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1979.95	1982.94	0.4F	1.32	<0.001	<0.05	<0.05	1F	0.0026	2.1	0.02FM2	<2	<0.0005	0.0004F	<0.03	<0.05
		7-Jul-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1979.95	1982.94	0.8F	1.51	<0.001	<0.05	<0.05	0.9F	0.0031	1.6F	<0.03	<2	<0.0005	0.0006	<0.03	<0.05
		4-Aug-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1979.95	1982.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1979.95	1982.94	1	1.91	<0.001	<0.05	0.02FM1	0.9F	0.0029	2.2	<0.03M2	<2V1	<0.0005	0.0003F	<0.03	0.02F
	TEST 37	26-Aug-08	N	2053.81	2056.81	62.2	4.12	<0.001	<0.05	0.03F	20.6	0.0072B7	2.1	<0.03L1	8.8	0.0001F	0.0009	0.005F	<0.05
		2-Sep-08	N	2053.81	2056.81	54.9	1.26	<0.001	<0.05	<0.05	17.8	0.0147	2.9	<0.03	8.1	<0.0005	0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 37	9-Sep-08	N	2053.81	2056.81	30.6	1.39	<0.001	<0.05	0.04	13.5	0.0088	3.9	<0.03	3.5	<0.0005	0.0002	<0.03	<0.05
		16-Sep-08	N	2053.81	2056.81	8.6	0.534	<0.001	<0.05	0.05	5.5	0.0036	2.8	<0.03	0.7	<0.0005	0.0001	<0.03	<0.05
		23-Sep-08	N	2053.81	2056.81	10.1	0.807	<0.001	0.02	<0.05	8.5	0.0044	4.5	<0.03	0.6	<0.0005	0.0002	<0.03	<0.05
		30-Sep-08	N	2053.81	2056.81	4	0.423	<0.001	<0.05	<0.05	4.9	0.0027	3.5	<0.03	<2	<0.0005	0.0002	<0.03	<0.05
		7-Oct-08	N	2053.81	2056.81	2.5	0.323	<0.001	<0.05	<0.05	3.2	0.0021	3.1	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		14-Oct-08	N	2053.81	2056.81	2.2	0.329	<0.001	<0.05	<0.05	2.5	0.0019	2.5	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		21-Oct-08	N	2053.81	2056.81	2	0.404	<0.001	<0.05	<0.05	2.5	0.0019	3.4	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		28-Oct-08	N	2053.81	2056.81	1.8	0.292	<0.001	<0.05	0.01F	2.2	0.0014	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		4-Nov-08	N	2053.81	2056.81	1.4	0.329	<0.001	0.01F	<0.05	1.9F	0.002	2.9	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		11-Nov-08	N	2053.81	2056.81	1.3	0.307	<0.001	0.01F	<0.05	1.7F	0.0018	2.5	<0.03	<2	<0.0005	<0.0005	0.007F	<0.05
		18-Nov-08	N	2053.81	2056.81	1.3	0.424	<0.001	0.02F	<0.05	1.9F	0.0017	3.4	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		25-Nov-08	N	2053.81	2056.81	0.9F	0.305	<0.001	<0.05	<0.05	1.2F	0.001	2.2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	2053.81	2056.81	0.8F	0.368	<0.001	<0.05	<0.05	1.7F	0.001	2.5	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	2053.81	2056.81	0.8F	0.421	<0.001	<0.05	<0.05	1.8F	0.0013	2.7	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	2053.81	2056.81	0.5F	0.305	<0.001	<0.05	<0.05	0.9F	0.0007	2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		23-Dec-08	N	2053.81	2056.81	0.5F	0.373	--	<0.05	<0.05	1.1F	0.0009	2.1	--	<2	<0.0005	0.0001F	--	<0.05
		30-Dec-08	N	2053.81	2056.81	0.5F	0.391	--	<0.05	<0.05	1.1F	0.0008	2.4	--	<2	<0.0005	<0.0005	--	<0.05
		6-Jan-09	N	2053.81	2056.81	0.3F	0.387	--	<0.05	<0.05	1.1F	0.0008	2.4	--	<2	<0.0005	<0.0005	--	<0.05
		13-Jan-09	N	2053.81	2056.81	0.4F	0.263	<0.001	<0.05	<0.05	0.7F	0.0006	1.8F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	2053.81	2056.81	0.5F	0.339	--	<0.05L1	<0.05	0.8F	0.0008	2.3	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	2053.81	2056.81	0.4F	0.294	--	<0.05	<0.05	0.7F	0.0006	1.6F	--	<2	0.0002F	<0.0005	--	<0.05
		3-Feb-09	N	2053.81	2056.81	0.4F	0.306	--	<0.05	<0.05	0.8F	0.0007	2.2	--	<2	<0.0005	<0.0005	--	<0.05
		10-Feb-09	N	2053.81	2056.81	0.3F	0.294	--	<0.05	<0.05	0.9F	<0.001D1	1.8F	--	<2	<0.0005	<0.0005	--	<0.05
		17-Feb-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	2053.81	2056.81	0.2F	0.369	<0.001	<0.05	<0.05	1.1F	0.0006	1.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05L1
		17-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	2053.81	2056.81	0.4F	0.358	<0.001	0.01F	<0.05	0.7F	0.0006	1.9	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-008A	TEST 37	14-Apr-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	2053.81	2056.81	0.3F	0.328	<0.001	<0.05	<0.05	0.6F	0.0007	1.8F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		12-May-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	2053.81	2056.81	0.4F	0.45	<0.001	<0.05	<0.05	0.7F	0.0014	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Jun-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	2053.81	2056.81	0.3F	0.589	<0.001	<0.05	<0.05	0.8F	0.0014	2.3	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		7-Jul-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	2053.81	2056.81	1.2	0.891	<0.001	<0.05	<0.05	1.3F	0.0032	3.7	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		4-Aug-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	2053.81	2056.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	2053.81	2056.81	1.4	1.1	<0.001	<0.05	0.03F	0.8F	0.0034	3	<0.03	<2V1	<0.0005	<0.0005	<0.03	0.02F
RES-009	TEST 38	26-Aug-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	0.01F	1.4F	0.0002F	21.7	<0.03L1	27.1	<0.0005	0.002	0.007F	<0.05
		2-Sep-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.5F	<0.0005	17.3	<0.03	21.8	<0.0005	0.0031	0.006F	<0.05
		9-Sep-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	0.01	0.8	<0.0005	15.1	<0.03	18.6	<0.0005	0.0036	0.016	<0.05
		16-Sep-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.4	0.0002	13.7	<0.03	16.1	<0.0005	0.0037	<0.03	<0.05
		23-Sep-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.3	0.0002	11.7	<0.03	14.5	<0.0005	0.0034	0.007	<0.05
		30-Sep-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.9	<0.0005	15.7	<0.03	15.7	<0.0005	0.0031	<0.03	<0.05
		7-Oct-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.3F	0.0001F	14	<0.03	14.6	<0.0005	0.0031	<0.03	<0.05
		14-Oct-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.4F	0.0002F	12.8	<0.03	13.3	<0.0005	0.0032	<0.03	<0.05
		21-Oct-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0003F	12.8	<0.03	13.5	<0.0005	0.0031	0.007F	<0.05
		28-Oct-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	0.01F	<2	<0.0005	11.9	<0.03	14.5	<0.0005	0.0028	<0.03	<0.05
		4-Nov-08	N	278.9	281.09	<1	<0.03	<0.001	0.01F	<0.05	0.3F	<0.0005	13.8	<0.03	12.4	<0.0005	0.0026	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009	TEST 38	11-Nov-08	N	278.9	281.09	<1	<0.03	<0.001	0.01F	<0.05	0.4F	<0.0005	12.4	<0.03	11.3	<0.0005	0.0031	<0.03	<0.05
		18-Nov-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.4F	<0.0005	12.1	<0.03	10.3	<0.0005	0.0028	<0.03	0.01F
		25-Nov-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	<2	<0.0005	9.6	<0.03	8.9	<0.0005	0.0033	<0.03	<0.05
		2-Dec-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.5F	<0.0005	8.9	<0.03	8.9	<0.0005	0.0027	<0.03	<0.05
		9-Dec-08	N	278.9	281.09	<1	<0.03	<0.001	<0.05	<0.05	0.3F	<0.0005	8.5	<0.03	8	<0.0005	0.0018	<0.03	<0.05
		16-Dec-08	N	278.9	281.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	278.9	281.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 39	26-Aug-08	N	645.59	647.52	<1	<0.03	<0.001	0.02F	<0.05	1.6F	0.138B7	9.9	<0.03L1	66.4	<0.0005	0.0009	0.061	<0.05
		2-Sep-08	N	645.59	647.52	<1	<0.03	<0.001	0.02F	<0.05	0.9F	0.0881	8.3	<0.03	54.6	<0.0005	0.0011	0.048	<0.05
		9-Sep-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	1.2	0.0563	6.7	<0.03	47.2	<0.0005	0.0013	0.044	<0.05
		16-Sep-08	N	645.59	647.52	<1	<0.03	<0.001	0.01	<0.05	0.8	0.0484	6.5	<0.03	44.8	<0.0005	0.0012	0.029	<0.05
		23-Sep-08	N	645.59	647.52	<1	<0.03	<0.001	0.02	<0.05	1	0.0354	6.7	<0.03	44.4	<0.0005	0.0013	0.029	<0.05
		30-Sep-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	1.1	0.014	7	<0.03	39.8	<0.0005	0.0014	0.029	<0.05
		7-Oct-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.007	6.6	<0.03	37.3	<0.0005	0.0014	0.023F	<0.05
		14-Oct-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.8F	0.0044	6.1	<0.03	35.5	<0.0005	0.0012	0.024F	<0.05
		21-Oct-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0029	5.8	<0.03	31.5	<0.0005	0.0009	0.024F	<0.05
		28-Oct-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0027	4	<0.03	30.7	<0.0005	0.0009	0.005F	<0.05
		4-Nov-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.8F	0.0024	5.7	<0.03	28.5	<0.0005	0.001	0.016F	<0.05
		11-Nov-08	N	645.59	647.52	<1	<0.03	<0.001	0.01F	<0.05	0.7F	0.0027	5.4	<0.03	25.9	<0.0005	0.001	0.017F	<0.05
		18-Nov-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.9F	0.0023	5.4	<0.03	24.4	<0.0005	0.0009	0.015F	0.01F
		25-Nov-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0019	4.1	<0.03	21.8	<0.0005	0.001	0.009F	<0.05
		2-Dec-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.9F	0.0015	4	<0.03	23.4	<0.0005	0.001	0.009F	<0.05
		9-Dec-08	N	645.59	647.52	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0018	5	<0.03	23.8	<0.0005	0.0007	0.013F	<0.05
		16-Dec-08	N	645.59	647.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	645.59	647.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 40	26-Aug-08	N	804.84	807	1.1	<0.03	<0.001	0.02F	<0.05	2.9	0.101B7	6.7	<0.03M2	212	<0.0005	0.0007	0.017F	<0.05
		2-Sep-08	N	804.84	807	2.4	<0.03	<0.001	0.03F	<0.05	3.7	0.0979	7.6	<0.03	294	<0.0005	0.0006	0.019F	<0.05
		9-Sep-08	N	804.84	807	2.7	0.01	<0.001	<0.05	0.01	4.2	0.0454	7.2	<0.03	271	<0.0005	0.0005	0.012	<0.05
		16-Sep-08	N	804.84	807	1.6	0.007	<0.001	<0.05	<0.05	2.7	0.0081	6.7	<0.03	150	<0.0005	0.0003	0.014	<0.05
		23-Sep-08	N	804.84	807	3.2	0.007	<0.001	0.02	<0.05	5.4	0.0098	7.7	<0.03	209	<0.0005	0.0006	0.015	<0.05
		30-Sep-08	N	804.84	807	2.4	0.01	<0.001	<0.05	<0.05	4.6	0.0036	7.7	<0.03	148	<0.0005	0.0006	0.01	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009	TEST 40	7-Oct-08	N	804.84	807	2.8	0.006F	<0.001	0.02F	<0.05	7.5	0.0029	7	<0.03	136	<0.0005	0.0005	0.007F	<0.05
		14-Oct-08	N	804.84	807	2.7	0.01F	<0.001	<0.05	<0.05	3.7	0.002	6.3	<0.03	102	<0.0005	0.0003F	0.007F	<0.05
		21-Oct-08	N	804.84	807	2.5	0.006F	<0.001	<0.05	<0.05	3.4	0.0015	6.9	<0.03	76.9	<0.0005	0.0003F	0.012F	<0.05
		28-Oct-08	N	804.84	807	2.8	0.009F	<0.001	<0.05	0.01F	3.2	0.0014	4.6	<0.03	71.7	<0.0005	0.0002F	<0.03	<0.05
		4-Nov-08	N	804.84	807	2.8	0.009F	<0.001	0.01F	<0.05	3.2	0.0014	6	<0.03	59.9	<0.0005	0.0002F	0.015F	<0.05
		11-Nov-08	N	804.84	807	2.8	0.011F	<0.001	0.01F	<0.05	3	0.0016	5.8	<0.03	53.8	<0.0005	0.0003F	0.009F	<0.05
		18-Nov-08	N	804.84	807	3.3	0.012F	<0.001	<0.05	<0.05	3.4	0.0014	7.7	<0.03	53.9	<0.0005	0.0003F	0.012F	<0.05
		25-Nov-08	N	804.84	807	2.9	0.011F	<0.001	<0.05	<0.05	2.7	0.0011M1	5.4	<0.03	35.1	<0.0005	0.0002F	0.005F	<0.05
		2-Dec-08	N	804.84	807	2.4	0.01F	<0.001	<0.05	<0.05	2.4	0.0008	4.9	<0.03	22.9	<0.0005	0.0002F	<0.03	<0.05
		9-Dec-08	N	804.84	807	4.2	0.009F	<0.001	<0.05	<0.05	4	<0.0005	8.6	<0.03	43.4	<0.0005	0.0003F	<0.03	<0.05
		16-Dec-08	N	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 41	26-Aug-08	FD	804.84	807	1.2	<0.03	<0.001	0.02F	<0.05	3.5	0.119B7	7.7	<0.03	238	<0.0005	0.0008	0.022F	<0.05
		2-Sep-08	FD	804.84	807	2.6	<0.03	<0.001	0.02F	<0.05	3.9	0.0985B7	7.9	<0.03	312	<0.0005	0.0007	0.015F	<0.05
		9-Sep-08	FD	804.84	807	2.6	0.01	<0.001	<0.05	<0.05	3.9	0.0294	7.8	<0.03M2	274M2	<0.0005	0.0006	0.02	<0.05
		16-Sep-08	FD	804.84	807	1.8	0.009	<0.001	<0.05	<0.05	3	0.0061	7.4	<0.03M2	169	<0.0005	0.0004	0.018	<0.05
		23-Sep-08	FD	804.84	807	2.4	<0.03	<0.001	<0.05	<0.05	4.7	0.0048	7.8	<0.03	186	<0.0005	0.0005	0.014	<0.05
		30-Sep-08	FD	804.84	807	2.2	<0.03	<0.001	<0.05	<0.05	4.1	0.0029	8.3	<0.03M2	138	0.0001	0.0005	0.01	<0.05
		7-Oct-08	FD	804.84	807	2.1	<0.03	<0.001	<0.05	<0.05	4.2	0.0023	7.2	<0.03M2	112	<0.0005	0.0004F	0.011F	<0.05
		14-Oct-08	FD	804.84	807	0.7F	<0.03	<0.001	<0.05	<0.05	3.1	0.0013	2.6	<0.03M2	89.9	<0.0005	0.0002F	0.006F	<0.05
		21-Oct-08	FD	804.84	807	2	<0.03M2	<0.001	<0.05	<0.05	3.4	0.0013	6.2	<0.03M2	67.6	<0.0005	0.0003F	0.007F	<0.05
		28-Oct-08	FD	804.84	807	2.4	0.009F	<0.001	<0.05	<0.05	2.7	0.0012	6.1	<0.03M2	56.1	<0.0005	0.0002F	<0.03	<0.05
		4-Nov-08	FD	804.84	807	2.3	<0.03M1	<0.001	<0.05	<0.05	2.9	0.0012	6.3	<0.03M2	52.3	<0.0005	0.0002F	0.01F	<0.05
		11-Nov-08	FD	804.84	807	2.5	0.011F	<0.001	<0.05	<0.05	3.1	0.0012	5.2	<0.03	42.4	0.0002F	0.0001F	0.007F	<0.05
		18-Nov-08	FD	804.84	807	2.7	0.01F	<0.001	<0.05	<0.05	3	0.0012	7.4M1	<0.03M2	37.9	<0.0005	0.0002F	0.012F	0.02F
		25-Nov-08	FD	804.84	807	2.6	0.014F	<0.001	<0.05	<0.05	2.6	0.0008	5.9M1	<0.03M2	26.6	<0.0005	0.0001F	<0.03	<0.05
		2-Dec-08	FD	804.84	807	1.9	<0.03	<0.001	<0.05	<0.05	2.1	0.001	4.6	<0.03M2	19.2	0.0001F	0.0002F	<0.03	<0.05
		9-Dec-08	FD	804.84	807	2.4	<0.03	<0.001	<0.05	<0.05	2.8	0.0008	5.3	<0.03M2	20.4	<0.0005	0.0002F	<0.03	<0.05
		16-Dec-08	FD	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	FD	804.84	807	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 42	26-Aug-08	N	994.67	997.67	10.7	0.283	<0.001	1.31	<0.05	30.9	0.0029	16.2	<0.03	857D1B7M2	0.0002F	0.0285	<0.1D1	0.01F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009	TEST 42	2-Sep-08	N	994.67	997.67	1.2	0.018F	<0.001	1	0.01F	7.5	0.0004F	9	<0.03	148	<0.0005	0.0069	<0.03	<0.05
		9-Sep-08	N	994.67	997.67	0.3	0.01	<0.001	1.17	<0.05	6.3	0.0005	15	<0.03	90.2	<0.0005	0.0045	<0.03	<0.05
		16-Sep-08	N	994.67	997.67	<1	0.014	<0.001	0.2	<0.05	2.5	0.0001	6.3	<0.03	16	<0.0005	0.0008	<0.03	<0.05
		23-Sep-08	N	994.67	997.67	<1	<0.03	<0.001	0.13	<0.05	2.8	0.0002	5.1	<0.03	15	<0.0005	0.0006	<0.03	<0.05
		30-Sep-08	N	994.67	997.67	<1	<0.03	<0.001	0.08	<0.05	3.1	0.0001	5	<0.03	9.4	<0.0005	0.0005	<0.03	<0.05
		7-Oct-08	N	994.67	997.67	<1	<0.03	<0.001	0.04F	<0.05	2	0.0001F	3.8	<0.03	7.7	<0.0005	0.0004F	<0.03	<0.05
		14-Oct-08	N	994.67	997.67	<1	<0.03	<0.001	0.06	<0.05	2	<0.0005	4.4	<0.03	7.2	<0.0005	0.0005	<0.03	<0.05
		21-Oct-08	N	994.67	997.67	<1	<0.03	<0.001	0.08	<0.05	3.1	0.0001F	6	<0.03	10	<0.0005	0.0007	<0.03	<0.05
		28-Oct-08	N	994.67	997.67	<1	0.007F	<0.001	0.07	<0.05	2.3	<0.0005	5.5	<0.03	8.2	<0.0005	0.0005	<0.03	<0.05
		4-Nov-08	N	994.67	997.67	<1	<0.03	<0.001	0.07	<0.05	2.8	<0.0005	5.8	<0.03	8.8	<0.0005	0.0007	<0.03	<0.05
		11-Nov-08	N	994.67	997.67	<1	0.006F	<0.001	0.03F	<0.05	2.6	<0.0005	3.9	<0.03	5.4	<0.0005	0.0003F	<0.03	<0.05
		18-Nov-08	N	994.67	997.67	<1	0.02F	<0.001	0.14	<0.05	1.9F	0.0001F	5.6	<0.03	10.1	<0.0005	0.0011	<0.03	<0.05
		25-Nov-08	N	994.67	997.67	0.3F	0.024F	<0.001	0.45	<0.05	3.3	0.0001F	11.9	<0.03	30.1	<0.0005	0.003	<0.03	<0.05
		2-Dec-08	N	994.67	997.67	<1	<0.03	<0.001	0.05	<0.05	2.9	<0.0005	6.4	<0.03	8	<0.0005	0.0009	<0.03	<0.05
		9-Dec-08	N	994.67	997.67	<1	<0.03	<0.001	0.03F	<0.05	3.2	<0.0005	5.1	<0.03	5.5	<0.0005	0.0005	<0.03	<0.05
		16-Dec-08	N	994.67	997.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	994.67	997.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RES-009E	TEST 43	26-Aug-08	N	1351.03	1354.03	60.8	3.27	<0.001	<0.05	0.39	714	0.0409	70.8	<0.03	71.3	0.0036	0.0044	<0.05D1	0.51
		2-Sep-08	N	1351.03	1354.03	2.3	0.232	<0.001	<0.05	0.05	83.6	0.0019	45.5	<0.03	3.4	0.0005	0.0004F	<0.03	0.02F
		9-Sep-08	N	1351.03	1354.03	1.5	0.161	<0.001	<0.05	<0.05	42.5	0.0029	27.6	<0.03	1.3	0.0003	0.0005	<0.03	<0.05
		16-Sep-08	N	1351.03	1354.03	1.6	0.163	<0.001	<0.05	<0.05	32.1	0.0022	30.4	<0.03	0.6	0.0002	0.0004	<0.03	0.02
		23-Sep-08	N	1351.03	1354.03	1.1	0.113	<0.001	<0.05	0.03	17.2	0.0027	12.9	<0.03	0.5	0.0001	0.0006	<0.03	<0.05
		30-Sep-08	N	1351.03	1354.03	1	0.106	<0.001	<0.05	<0.05	14.8	0.0024	11.5	<0.03	0.4	0.0001	0.0007	<0.03	0.02
		7-Oct-08	N	1351.03	1354.03	0.8F	0.097	<0.001	<0.05	0.02F	12.4	0.0022	8.8	<0.03	0.4F	0.0001F	0.0007	<0.03	0.03F
		14-Oct-08	N	1351.03	1354.03	1	0.134	<0.001	<0.05	0.02F	12.5	0.0021	9.3	<0.03	<2	0.0001F	0.0006	<0.03	0.01F
		21-Oct-08	N	1351.03	1354.03	0.9F	0.112	<0.001	<0.05	0.02F	13.7	0.0024	8.6	<0.03	<2	0.0001F	0.0006	<0.03	0.02F
		28-Oct-08	N	1351.03	1354.03	1	0.107	<0.001	<0.05	<0.05	11.8	0.0024	9.5	<0.03	<2	0.0002F	0.0006	<0.03	0.02F
		4-Nov-08	N	1351.03	1354.03	0.9F	0.111	<0.001	<0.05	<0.05	12.8	0.003	9.3	<0.03	<2	0.0001F	0.0007	<0.03	0.01F
		11-Nov-08	N	1351.03	1354.03	0.8F	0.104	<0.001	<0.05	0.01F	12.7	0.0029	9.3	<0.03	<2	0.0001F	0.0006	<0.03	0.02F
		18-Nov-08	N	1351.03	1354.03	0.9F	0.095	<0.001	<0.05	<0.05	10.4	0.0039M1	8.3	<0.03	<2	0.0001F	0.0006	<0.03	0.02F
		25-Nov-08	N	1351.03	1354.03	1	0.096	<0.001	<0.05	0.01F	9.2	0.0023	6.7	<0.03	<2	0.0001F	0.0005	<0.03	0.03F

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 43	2-Dec-08	N	1351.03	1354.03	0.9F	0.095	<0.001	<0.05	<0.05	10.5	0.0039	4.8	<0.03	<2	0.0002F	0.0007	<0.03	0.01F
		9-Dec-08	N	1351.03	1354.03	1.1	0.131	<0.001	<0.05	<0.05	11.1	0.0035	5.1	<0.03	0.3F	0.0001F	0.0008	<0.03	0.02F
		16-Dec-08	N	1351.03	1354.03	0.9F	0.119	<0.001	<0.05	<0.05	10.3	0.0032	8.6	<0.03	<2	0.0001F	0.0006	<0.03	0.04F
		23-Dec-08	N	1351.03	1354.03	0.6F	0.081	--	<0.05	0.01F	8.3	0.003	4.8	--	<2	<0.0005	0.0005	--	0.03F
		30-Dec-08	N	1351.03	1354.03	0.8F	0.073	--	<0.05	0.01F	8.2	0.0028	9.4	--	<2V1	<0.0005	0.0005	--	0.03F
		6-Jan-09	N	1351.03	1354.03	0.5F	0.072	--	<0.05	0.02F	9.8	0.0031	9.1	--	<2	0.0001F	0.0006	--	0.03F
		13-Jan-09	N	1351.03	1354.03	0.6F	0.053	<0.001	<0.05	0.02F	7.5	0.003	8.3	<0.03	<2	0.0001F	0.0005	<0.03	0.02F
		20-Jan-09	N	1351.03	1354.03	0.6F	0.051	--	<0.05L1	0.01F	7.5	0.0026	8	--	<2	<0.0005	0.0005	--	0.03F
		27-Jan-09	N	1351.03	1354.03	0.7F	0.062	--	<0.05	<0.05	8.2	0.003	8.3	--	<2	0.0002F	0.0006	--	0.04F
		3-Feb-09	N	1351.03	1354.03	0.8F	0.073	--	<0.05	0.01F	8.9	0.0035	10	--	<2	0.0001F	0.0007	--	0.05
		10-Feb-09	N	1351.03	1354.03	0.5F	0.056	--	<0.05	0.03F	8	0.0006	10.5	--	<2	0.0001F	0.0005	--	0.04F
		17-Feb-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1351.03	1354.03	0.4F	0.054	<0.001	<0.05	<0.05	6.5	0.0023	6.8	<0.03	<2	<0.0005	0.0005	<0.03	0.07
		17-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1351.03	1354.03	0.4F	0.033	<0.001	<0.05	<0.05	4.4	0.002	6.8	<0.03	<2	<0.0005	0.0004F	<0.03	0.02F
		14-Apr-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1351.03	1354.03	0.4F	0.049	<0.001	<0.05	<0.05	4.6	0.0032	5	<0.03	<2	<0.0005	0.0007	<0.03	0.03F
		12-May-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1351.03	1354.03	<1	0.023F	<0.001	<0.05	<0.05	4.3	0.003	7.3	<0.03	<2	<0.0005	0.0006	<0.03	<0.05
		9-Jun-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1351.03	1354.03	<1	0.032	<0.001	<0.05	0.02F	4.9	0.0038B1	10	<0.03	<2	0.0003F	0.0012	<0.03	0.07

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 43	7-Jul-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1351.03	1354.03	0.2F	0.032	<0.001	<0.05	0.01F	3.9	0.0041	8.3	<0.03	<2	0.0001F	0.0015	<0.03	0.04F
		4-Aug-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1351.03	1354.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1351.03	1354.03	0.6F	0.021F	<0.001	<0.05	0.03F	3.7	0.0026	12.2	<0.03	0.4F	<0.0005	0.0013	<0.03	0.04F
	TEST 44	26-Aug-08	N	1510.74	1527.19	10.9	0.927	<0.001	<0.05	0.58	50.6	0.0406	5.8	<0.03M2	50.2	0.0013	0.0016	<0.03	0.26
		2-Sep-08	N	1510.74	1527.19	10.6	0.666	<0.001	<0.05	0.74	38.2D1	0.0565B7	20.2	<0.05D1	29.2D1	0.001	0.0017	<0.03	0.33
		9-Sep-08	N	1510.74	1527.19	7.3	0.43D2	<0.001	<0.05	0.51	25.7	0.0447	19.1	<0.03	14	0.0008	0.0024	<0.05D2	0.37
		16-Sep-08	N	1510.74	1527.19	4.4	0.285	<0.001	<0.1D1	0.35D1	14.4	0.0313	18.9	<0.03	5.8	0.0006	0.0026	<0.05D1	0.43D1
		23-Sep-08	N	1510.74	1527.19	2.8	0.201	<0.001	<0.05	0.31	7.9D2	0.0273	16.8	<0.03	2.5	0.0004	0.0033	<0.03	0.52
		30-Sep-08	N	1510.74	1527.19	2	0.163	<0.001	<0.05	0.22	5.1	0.0268	17	<0.03	1.2	0.0003	0.0047	<0.03	0.71
		7-Oct-08	N	1510.74	1527.19	1.3	0.125	<0.001	<0.05	0.23	2.7FD1	0.0251	17	<0.03	0.7F	0.0002F	0.0051	<0.03	0.87
		14-Oct-08	N	1510.74	1527.19	0.8F	0.074	<0.001	<0.05	0.15	1.3FD1	0.0184	14.4	<0.03	<3D1	<0.0005	0.0035	<0.03	0.63
		21-Oct-08	N	1510.74	1527.19	0.5F	0.059	<0.001	<0.1D1	0.14	1.4FD1	0.0231	15.5	<0.05D1	<3D1	0.0001F	0.0047	<0.03	0.78
		28-Oct-08	N	1510.74	1527.19	0.4F	0.042	<0.001	0.03F	0.06	0.9F	0.0189	14D2	<0.03	<3D2	<0.0005	0.0035	<0.03	0.54
		4-Nov-08	N	1510.74	1527.19	<1	0.033	<0.001	<0.05	0.06	0.9F	0.0222	11.9	<0.05D2	<3D2	0.0001F	0.0044	<0.03	0.52
		11-Nov-08	N	1510.74	1527.19	<1	0.032	<0.001	<0.05	0.06	0.7F	0.0218	10.9	<0.05D2	<3D2	<0.0005	0.0041	<0.03	0.46D2
		18-Nov-08	N	1510.74	1527.19	0.2F	0.027F	<0.001	0.03F	0.05FD2	0.4F	0.0255	10.8	<0.03	<2	<0.0005	0.004	<0.03	0.4D2
		25-Nov-08	N	1510.74	1527.19	0.2F	0.029F	<0.001	0.03F	0.05	0.5F	0.0222	11.9	<0.03	<2	<0.0005	0.0039	<0.03	0.44
		2-Dec-08	N	1510.74	1527.19	<1	0.018F	<0.001	<0.05	0.02F	0.3F	0.0231	7.7	<0.05D1	<2	0.0001F	0.0037	<0.03	0.32
		9-Dec-08	N	1510.74	1527.19	<1	0.014F	<0.001	<0.05	0.02F	0.4F	0.02	9.5	<0.03	<2	<0.0005	0.0033	<0.03	0.31
		16-Dec-08	N	1510.74	1527.19	<1	0.017F	<0.001	0.02F	0.03F	<3D1	0.0191	7.8	<0.03	<2	<0.0005	0.0032	0.007F	0.28D1
		23-Dec-08	N	1510.74	1527.19	<1	0.005F	--	<0.05	0.04FD1	<2	0.0214	8.1	--	0.4F	<0.0005	0.0034	--	0.27
		30-Dec-08	N	1510.74	1527.19	<1V1	0.013F	--	0.01F	0.05	<2	0.0217	10.3	--	<2V1	<0.0005	0.0033	--	0.35
		6-Jan-09	N	1510.74	1527.19	<1	0.009F	--	0.04F	0.05FD1	<3D1	0.0193	7.4	--	<2	<0.0005	0.0034	--	0.27
		13-Jan-09	N	1510.74	1527.19	<1	0.01F	<0.001	0.03FD1	0.05	<2	0.02	7.4	<0.03	<2	<0.0005	0.0033	<0.03	0.22D1
		20-Jan-09	N	1510.74	1527.19	<1	0.01F	--	<0.05M1	0.03F	<2	0.0206	8.4	--	<2	<0.0005	0.0035	--	0.25
		27-Jan-09	N	1510.74	1527.19	<1	0.01F	--	<0.05	0.03F	<2	0.0183	6.8D1	--	<2	0.0002F	0.0035	--	0.23

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 44	3-Feb-09	N	1510.74	1527.19	<1	0.008F	--	<0.05	0.02F	<2	0.0169	8	--	<2	<0.0005	0.0034	--	0.22
		10-Feb-09	N	1510.74	1527.19	<1	0.015F	--	<0.1D2	0.04F	0.5F	0.0156	7.9D2	--	<2	<0.0005	0.0041	--	0.28
		17-Feb-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1510.74	1527.19	<1	0.018F	<0.001	<0.05	0.02F	0.4F	0.0136	7.6	<0.05D2	<2	<0.0005	0.006	<0.03	0.4D2
		17-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1510.74	1527.19	0.2F	0.006F	<0.001	0.02FD1	0.02FD1	<2	0.0118B7	8.4	<0.03	<2	<0.0005	0.0069	<0.05D1	0.18
		14-Apr-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1510.74	1527.19	0.2F	0.023F	<0.001	<0.05	0.03F	<2	0.0085	7.5	<0.03	<2	<0.0005	0.0056	<0.03	0.19
		12-May-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1510.74	1527.19	<1	0.019F	<0.001	<0.05	0.03F	<2	0.0087	8.6	<0.03	<2	<0.0005	0.0057	<0.03	0.11
		9-Jun-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1510.74	1527.19	<1	0.029F	0.0002F	<0.05	0.06	<2	0.0123B1	11.3D1	<0.05D1	<2	<0.0005	0.0081	<0.05D1	0.2D1
		7-Jul-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1510.74	1527.19	0.4F	0.035	<0.001	0.01F	0.06	<2	0.0102	10.9	<0.03	<2	<0.0005	0.008	0.01F	0.13
		4-Aug-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1510.74	1527.19	0.3F	0.01F	<0.001	0.02F	0.04F	<2	0.0077	12	0.02F	<2V1	<0.0005	0.0056	0.018F	0.07
		1-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 44	8-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	1510.74	1527.19	<1	<0.03	<0.001	<0.05	0.04F	<2	0.0076	6.9	<0.03	<2	<0.0005	0.0042	0.011F	0.06
		29-Sep-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	1510.74	1527.19	<1	<0.05D1	<0.001	<0.1D1	<0.1D1	<2	0.0045	3.3	<0.03	<2	<0.0005	0.0018	<0.05D1	0.04F
		27-Oct-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	1510.74	1527.19	<1	<0.03	<0.001	<0.05	0.03F	<2	0.0051	2.8	<0.03	<2	<0.0005	0.002	<0.03	0.02F
		24-Nov-09	N	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 45	26-Aug-08	FD	1510.74	1527.19	6.8	0.546	<0.001	<0.05	0.38	32.2	0.0272	4.4	<0.03	31.3	0.0009	0.001	<0.03	0.17
		2-Sep-08	FD	1510.74	1527.19	6.4	0.516	<0.001	<0.05	0.46	23.6	0.0351B7	12.7	<0.03M2	17.5	0.0006	0.0012	<0.03	0.24
		9-Sep-08	FD	1510.74	1527.19	4.2	0.269	<0.001	<0.05	0.29D2	14.7	0.03	6.4	<0.03	6.2	0.0004	0.0018	<0.03	0.25
		16-Sep-08	FD	1510.74	1527.19	1.7	0.14	<0.001	<0.05	0.16	5.9	0.0161	13.7	<0.03	1.1	<0.0005	0.0012	<0.03	0.23
		23-Sep-08	FD	1510.74	1527.19	1.1	0.096	<0.001	<0.05	0.14	3.6	0.0153	3.9	<0.03	0.6	0.0002	0.0019	<0.03	0.25
		30-Sep-08	FD	1510.74	1527.19	0.9	0.091	<0.001	<0.05	0.11	2.4	0.0172	3.6	<0.03	<2	0.0001	0.0027	<0.03	0.36
		7-Oct-08	FD	1510.74	1527.19	0.5F	0.068	<0.001	<0.05	0.1	1.1F	0.014	3.6	<0.03	<2	<0.0005	0.0025	<0.03	0.38
		14-Oct-08	FD	1510.74	1527.19	0.4F	0.053	<0.001	<0.05	0.09	0.8F	0.013	3.4	<0.03	<2	<0.0005	0.0023	<0.03	0.35
		21-Oct-08	FD	1510.74	1527.19	<1	0.045	<0.001	<0.05	0.06	0.9F	0.0127	7.2	<0.03	<2	<0.0005	0.0022	<0.03	0.33
		28-Oct-08	FD	1510.74	1527.19	<1	0.04	<0.001	0.02F	0.03F	0.5F	0.0106	6	<0.03	<2	<0.0005	0.0017	<0.03	0.26
		4-Nov-08	FD	1510.74	1527.19	<1	0.039	<0.001	<0.05	0.04F	0.5F	0.015	4.6	<0.03	<2	<0.0005	0.0027	<0.03	0.32
		11-Nov-08	FD	1510.74	1527.19	<1	0.027F	<0.001	<0.05	0.04F	0.4F	0.0131	3	<0.03	<2	<0.0005	0.0022	<0.03	0.27
		18-Nov-08	FD	1510.74	1527.19	<1	0.022F	<0.001	0.01F	0.03F	<2	0.0161	4	<0.03	<2	<0.0005	0.0021	<0.03	0.23
		25-Nov-08	FD	1510.74	1527.19	<1	0.023F	<0.001	0.02F	0.02F	0.3F	0.011	3.8	<0.03	<2	<0.0005	0.0017	<0.03	0.21
		2-Dec-08	FD	1510.74	1527.19	<1	0.01F	<0.001	<0.05	<0.05	0.3F	0.0141	3.5	<0.03	<2	<0.0005	0.0021	<0.03	0.17
		9-Dec-08	FD	1510.74	1527.19	<1	0.007F	<0.001	<0.05	<0.05	0.4F	0.0107	3.5	<0.03	<2	<0.0005	0.0014	<0.03	0.13
		16-Dec-08	FD	1510.74	1527.19	<1	0.011F	<0.001	<0.05	<0.05	<3D1	0.0092	3.8	<0.03	<2	<0.0005	0.0012	0.008F	0.11D1
		23-Dec-08	FD	1510.74	1527.19	<1	0.011FM1	--	<0.05	<0.05	<2	0.0107	3.3	--	<2	<0.0005	0.0014	--	0.14M1
		30-Dec-08	FD	1510.74	1527.19	<1V1	0.011F	--	<0.05	0.03F	<2	0.0113	3.7	--	<2V1	<0.0005	0.0015	--	0.38

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 45	6-Jan-09	FD	1510.74	1527.19	<1	0.005F	--	<0.05	0.02F	<2	0.01	1.8F	--	<2	<0.0005	0.0019	--	0.56
		13-Jan-09	FD	1510.74	1527.19	<1	0.01F	<0.001	<0.05	0.03F	<2	0.0102	4.4	<0.03	<2	<0.0005	0.0014	<0.03	0.15
		20-Jan-09	FD	1510.74	1527.19	<1	0.008F	--	<0.05L1	0.02F	<2	0.012	2.2	--	<2	<0.0005	0.0018	--	0.14
		27-Jan-09	FD	1510.74	1527.19	<1	0.008F	--	<0.05	<0.05	<2	0.0093	2.2	--	<2	0.0001F	0.0013	--	0.12
		3-Feb-09	FD	1510.74	1527.19	<1	0.02F	--	<0.05	0.02F	<2	0.0154	2.6	--	<2	<0.0005	0.0025	--	0.23
		10-Feb-09	FD	1510.74	1527.19	<1	<0.05D2	<0.001H3	0.02F	<0.1D2	<2	0.0118M1	2.3	<0.03	<2	<0.0005	0.0015	<0.05D1	0.1D2
		17-Feb-09	FD	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 46	26-Aug-08	FD	1510.74	1527.19	3.3	0.339	<0.001	<0.05	0.17	17.7	0.0149	3.3	<0.03	15.2	0.0004F	0.0005	<0.03	0.1
		2-Sep-08	FD	1510.74	1527.19	2.7	0.276	<0.001	<0.05	0.18	9.9	0.0143B7	5.1	<0.03	5.6	0.0002F	0.0005	<0.03	0.12
		9-Sep-08	FD	1510.74	1527.19	1.6	0.15	<0.001	<0.05	0.11	6	0.012	5.6	<0.03	2	0.0002	0.0007	<0.03	0.11
		30-Sep-08	FD	1510.74	1527.19	0.3	0.05	<0.001	<0.05	0.04	1.7	0.0091	3.1	<0.03	<2	<0.0005	0.0013	<0.03	0.21
		7-Oct-08	FD	1510.74	1527.19	<1	0.038	<0.001	<0.05	0.06	0.8F	0.0077	2.9	<0.03	<2	<0.0005	0.0013	<0.03	0.23
		14-Oct-08	FD	1510.74	1527.19	<1	0.018F	<0.001	<0.05	0.04F	0.5F	0.0051	3.4	<0.03	<2	<0.0005	0.0007	<0.03	0.13
		21-Oct-08	FD	1510.74	1527.19	<1	0.018F	<0.001	<0.05	0.03F	0.7F	0.0065B7	3.3	<0.03	<2	<0.0005	0.001	<0.03	0.14
		28-Oct-08	FD	1510.74	1527.19	<1	0.011F	<0.001	0.02F	<0.05	0.4F	0.0041	4.3	<0.03	<2	<0.0005	0.0006	<0.03	0.09
		4-Nov-08	FD	1510.74	1527.19	<1	0.01F	<0.001	<0.05	<0.05	0.5F	0.0053M1	3.2	<0.03	<2	<0.0005	0.0008	<0.03	0.07
		11-Nov-08	FD	1510.74	1527.19	<1	0.013F	<0.001	<0.05	0.02F	0.5F	0.0068	2.8	<0.03	<2	<0.0005	0.001	<0.03	0.11
		18-Nov-08	FD	1510.74	1527.19	<1	0.009F	<0.001	<0.05	0.01F	0.3F	0.007	4.5	<0.03	<2	<0.0005	0.0007	<0.03	0.07
		25-Nov-08	FD	1510.74	1527.19	<1	0.01F	<0.001	<0.05	0.01F	0.4F	0.0042	4.4	<0.03	<2	<0.0005	0.0006	<0.03	0.06
		2-Dec-08	FD	1510.74	1527.19	<1	<0.03	<0.001	<0.05	<0.05	0.4F	0.0047	3.2	<0.03	<2	<0.0005	0.0006	<0.03	0.05
		9-Dec-08	FD	1510.74	1527.19	<1	<0.03	<0.001	<0.05	<0.05	0.4F	0.0042	4.4	<0.03	<2	<0.0005	0.0005	<0.03	0.02F
		16-Dec-08	FD	1510.74	1527.19	<1	0.005FM1	<0.001	<0.05	0.01F	<2	0.0044	2.4M1	<0.03	<2	<0.0005	0.0005	<0.03	0.04F
		23-Dec-08	FD	1510.74	1527.19	<1	<0.03	--	<0.05	<0.05	<2	0.0042	2.2	--	0.4F	<0.0005	0.0005	--	0.03F
		30-Dec-08	FD	1510.74	1527.19	<1M1	<0.03M1	--	<0.05M1	<0.05M1	<2M1	0.0039	2.5M1	--	<2V1M1	<0.0005	0.0004F	--	0.03FM1
		6-Jan-09	FD	1510.74	1527.19	<1	<0.03	--	<0.05	<0.05	<2	0.0031	1.7FM1	--	<2	<0.0005	0.0004F	--	0.02F
		13-Jan-09	FD	1510.74	1527.19	<1	<0.03	<0.001	<0.05	0.01F	<2	0.0036	2M1	<0.03M2	<2	<0.0005	0.0004F	<0.03	0.02F
		20-Jan-09	FD	1510.74	1527.19	<1	<0.03	--	<0.05L1M1	<0.05	<2	0.0032	1.9FM1	--	<2	<0.0005	0.0003F	--	0.02F
		27-Jan-09	FD	1510.74	1527.19	<1	<0.03	--	<0.05M1	<0.05	<2	0.0037	1.8FM1	--	<2	0.0001F	0.0004F	--	0.03F
		3-Feb-09	FD	1510.74	1527.19	<1	<0.03	--	<0.05	<0.05	<2	0.0038	2M1	--	<2	<0.0005	0.0004F	--	0.03F
		10-Feb-09	FD	1510.74	1527.19	<1	<0.03	<0.001H3	<0.05	<0.05	<2	0.006	1.3F	<0.03	<2	<0.0005	0.0005	<0.03	0.03F
		23-Sep-08	FD	1510.74	1527.19	0.7	0.078	<0.001	<0.05	0.1	2.6	0.0106	2.6	<0.03	<2	<0.0005	0.0013	<0.03	0.19

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 46	17-Feb-09	FD	1510.74	1527.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 47	26-Aug-08	N	1597.32	1599.88	16.4	2.3	<0.001	<0.05	0.79	2.4	0.0193	96.5	<0.1D1V1	7.3	0.0001F	0.0866	<0.1D1	156
		2-Sep-08	N	1597.32	1599.88	0.4F	0.238	<0.001	<0.05	0.08	2.3	0.0047B7	32.5	<0.03	0.6F	<0.0005	0.0019	<0.03	36.2
		9-Sep-08	N	1597.32	1599.88	<1	0.107	<0.001	<0.05	0.01	1.2	0.0033	26.4	<0.03	<2	<0.0005	0.0018	0.006	33.9
		16-Sep-08	N	1597.32	1599.88	0.7	0.321	<0.001	0.01	0.08	3.9	0.0103	86.7	<0.03	0.7	<0.0005	0.0043	<0.03	85.8
		23-Sep-08	N	1597.32	1599.88	<1	0.082	<0.001	<0.05	0.08	2.3	0.0058	52.1	<0.03	<2	<0.0005	0.0018	<0.03	44.8
		30-Sep-08	N	1597.32	1599.88	<1	0.044	<0.001	<0.05	0.01	3.1	0.0053	43	<0.03	0.3	<0.0005	0.0013	<0.03	28.8
		7-Oct-08	N	1597.32	1599.88	<1	0.115	<0.001	0.04F	0.31	<8D1	0.045	74.5	<0.03	<2	<0.0005	0.0178	<0.03	335D1M3
		14-Oct-08	N	1597.32	1599.88	<1	0.026F	<0.001	<0.05	0.04F	0.5F	0.0122	30.1	<0.03	<2	<0.0005	0.0022	<0.03	33
		21-Oct-08	N	1597.32	1599.88	<1	0.036	<0.001	<0.05	0.03F	<2	0.0067B7	13.4	<0.03	<2	<0.0005	0.0021	<0.03	37.2
		28-Oct-08	N	1597.32	1599.88	<1	0.087	<0.001	0.01F	<0.05	0.4F	0.0046	58.3	<0.03	0.3F	<0.0005	0.0021	<0.03	59.7
		4-Nov-08	N	1597.32	1599.88	<1	0.027F	<0.001	<0.05	0.03F	0.6F	0.0113	27.4	<0.03	<2	<0.0005	0.0018	0.007F	36.8
	TEST 47S	11-Nov-08	N	1597.32	1599.88	<1	0.047	<0.001	<0.05	0.03F	0.3F	0.0139	20.7	<0.03	<2	<0.0005	0.0039	<0.03	69.6
		18-Nov-08	N	1597.32	1599.88	<1	0.009F	<0.001	<0.05	<0.05	<2	0.002	10.3	<0.03	<2	<0.0005	0.0007	<0.03	20
		25-Nov-08	N	1597.32	1599.88	<1	0.011F	<0.001	0.01F	<0.05	<2	0.0008	7.1	<0.03	<2	<0.0005	0.0005	<0.03	15.5
		2-Dec-08	N	1597.32	1599.88	<1	0.005F	<0.001	<0.05	<0.05	<2	0.0007	6.6	<0.03	<2	<0.0005	0.0007	<0.03	15.6
		9-Dec-08	N	1597.32	1599.88	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0009	5.2	<0.03	<2	<0.0005	0.0006	<0.03	16.6
		16-Dec-08	N	1597.32	1599.88	<1	0.009F	<0.001	0.02F	<0.05	<3D1	0.0009	5.9	<0.03	<2	<0.0005	0.0007	0.009F	9.2D1
		23-Dec-08	N	1597.32	1599.88	<1	<0.03	--	<0.05	<0.05	<2	0.001	5.1	--	<2	<0.0005	0.0006	--	15M3
		30-Dec-08	N	1597.32	1599.88	<1V1	0.011F	--	<0.05	<0.05	0.3F	0.001	7.2	--	0.3F	<0.0005	0.0006	--	18.8
		6-Jan-09	N	1597.32	1599.88	<1	0.005F	--	<0.05	<0.05	<2	0.0009	6.4	--	<2	<0.0005	0.0006	--	16.2
		13-Jan-09	N	1597.32	1599.88	<1	0.01F	<0.001	<0.05	<0.05	<2	0.0009	5.3	<0.03	<2	<0.0005	0.0006	<0.03	13.1
		20-Jan-09	N	1597.32	1599.88	<1	0.011F	--	<0.05L1	<0.05	<2	0.001	4.9	--	<2	<0.0005	0.0006	--	14.4
		27-Jan-09	N	1597.32	1599.88	<1	0.011F	--	<0.05	<0.05	<2	0.0009	3.9	--	<2	0.0002F	0.0007	--	15
		3-Feb-09	N	1597.32	1599.88	<1	0.012F	--	<0.05	0.01F	<2	0.0011	4.7	--	<2	<0.0005	0.0007	--	15.3
		10-Feb-09	N	1597.32	1599.88	<1	0.012F	<0.001H3	<0.05	<0.05	<2	0.0013	3.9	<0.03	<2	<0.0005	0.0007	<0.03	15.2M3
		17-Feb-09	N	1597.32	1599.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 48	26-Aug-08	N	1634.46	1637.47	54.2	1.77	<0.001	<0.05	1.16	423	0.0318	70.8	<0.03	66.9	0.0044	0.0198	<0.1D1	22.9
		2-Sep-08	N	1634.46	1637.47	4.2	0.293	<0.001	<0.05	0.12	66.4	0.0066B7	48.5	<0.03	2.3	0.0006	0.0018	<0.03	2.17
		9-Sep-08	N	1634.46	1637.47	0.8	0.046	<0.001	<0.05	<0.05V1	9.6	0.0018	9.5	<0.03	<2	0.0001	0.0006	<0.03	0.95
		16-Sep-08	N	1634.46	1637.47	1.9	0.095	<0.001	<0.05	0.03	17.4	0.0025	22.9	<0.03	0.5	0.0002	0.0011	<0.03	1.78

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 48	23-Sep-08	N	1634.46	1637.47	1.5	0.083	<0.001	<0.05	0.04	16.9	0.0039	20.7	<0.03	0.5	0.0002	0.0011	<0.03	1.72
		30-Sep-08	N	1634.46	1637.47	5.4	0.239	<0.001	<0.05	0.05	43.1	0.0106	45.7	<0.03	0.8	0.0005	0.0033	<0.03	6.18
		7-Oct-08	N	1634.46	1637.47	3.1	0.15	<0.001	<0.05	0.12	18.4D1	0.0117	24.5	<0.03	0.4F	0.0002F	0.0049	<0.03	9.54
		14-Oct-08	N	1634.46	1637.47	2.4	0.105	<0.001	<0.05	0.09	14.9D1	0.004	20.6	0.02F	<3D1	0.0002F	0.0032	<0.03	7.33
		21-Oct-08	N	1634.46	1637.47	0.5F	0.04	<0.001	<0.05	0.03F	6.4	0.0028	7.7	<0.03	<2	<0.0005	0.0011	<0.03	2.4
		28-Oct-08	N	1634.46	1637.47	1.1	0.046	<0.001	0.01F	<0.3D2	23.1	0.0037	33D2	<0.03	<3D2	0.0003F	0.0023	<0.03	5.75
		4-Nov-08	N	1634.46	1637.47	0.3F	0.026F	<0.001	<0.05	0.06FD2	10.3	0.0118	19	<0.05D2	<3D2	0.0002F	0.0042	<0.03	8
	TEST 48S	11-Nov-08	N	1634.46	1637.47	0.3F	0.032	<0.001	<0.05	0.05	15.5	0.0132	21.5	<0.1D2	<8D2	0.0002F	0.0034	0.005F	10D2
		18-Nov-08	N	1634.46	1637.47	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0009	6.9	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		25-Nov-08	N	1634.46	1637.47	<1	0.011F	<0.001	<0.05	0.01F	2.7	0.002	7.8	<0.03	<2	<0.0005	0.0008	<0.03	2.39
		2-Dec-08	N	1634.46	1637.47	<1	0.005F	<0.001	<0.05	<0.05	2.1	0.0029	5.9	<0.03	<2	<0.0005	0.001	<0.03	2.75
		9-Dec-08	N	1634.46	1637.47	<1	<0.03	<0.001	<0.05	<0.05	2	0.0024	6	<0.03	<2	<0.0005	0.0009	<0.03	2.67
		16-Dec-08	N	1634.46	1637.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Dec-08	N	1634.46	1637.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 49	26-Aug-08	N	1739.63	1742.63	6	4.28	<0.001	<0.05	0.35	1.8F	0.0046	64.9	<0.03	4.7	0.0005	0.0071	<0.05D1	0.61
		2-Sep-08	N	1739.63	1742.63	0.5F	1.65	<0.001	<0.05	0.06	0.9F	0.0006	49.7	<0.03	3.4	0.0001F	0.0006	<0.03	0.05
		9-Sep-08	N	1739.63	1742.63	<1	0.422	<0.001	<0.05	<0.05V1	0.4	0.0004	21.9	<0.03	1	<0.0005	0.0003	<0.03	<0.05
		16-Sep-08	N	1739.63	1742.63	0.2	1.2	<0.001	<0.05	0.09	1.1	0.0012	45.9	<0.03	1.6	0.0001	0.0006	<0.03	0.05
		23-Sep-08	N	1739.63	1742.63	<1	0.417	<0.001	<0.05	0.05	0.8	0.0007	30.6	<0.03	<2	<0.0005	0.0004	<0.03	<0.05
		30-Sep-08	N	1739.63	1742.63	<1	0.585	<0.001	<0.05	0.05	1.4	0.0025	51	<0.03	0.5	0.0002	0.0008	<0.03	0.03
		7-Oct-08	N	1739.63	1742.63	<1	0.628	<0.001	<0.05	0.17	1.1FD1	0.0042	58.8	<0.03	0.3F	0.0002F	0.0014	<0.03	0.06
		14-Oct-08	N	1739.63	1742.63	<1	0.134	<0.001	<0.05	0.08	0.6F	0.0017	58.8	<0.03	<2	<0.0005	0.0003F	<0.03	<0.05
		21-Oct-08	N	1739.63	1742.63	<1	0.039	<0.001	<0.05	0.03F	0.5F	0.0019	26.3	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		28-Oct-08	N	1739.63	1742.63	<1	0.043	<0.001	0.02F	<0.3D2	0.5F	0.0022	33	<0.03	<2	<0.0005	0.0003F	<0.03	<0.05
		4-Nov-08	N	1739.63	1742.63	<1	0.166	<0.001	<0.05	0.12	1.2F	0.0099	63.8	<0.1D2	<8D2	0.0003F	0.003	<0.03	<0.05
	TEST 49S	11-Nov-08	N	1739.63	1742.63	<1	0.017F	<0.001	<0.05	0.02F	<2	0.0032	22.7	<0.03	<2	<0.01D2	<0.01D2	<0.03	<0.05
		18-Nov-08	N	1739.63	1742.63	<1	0.01F	<0.001	0.02F	0.01F	4.5	0.0041	12.4	<0.03	<2	<0.0005	0.0012	<0.03	3.06
		25-Nov-08	N	1739.63	1742.63	<1	0.006F	<0.001	<0.05	<0.05	<2	0.0006	4.1	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1739.63	1742.63	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0009	2.9	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		9-Dec-08	N	1739.63	1742.63	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0008	2.7	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05
		16-Dec-08	N	1739.63	1742.63	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0009	4.1	<0.03	<2	<0.0005	0.0001F	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 49S	23-Dec-08	N	1739.63	1742.63	<1	<0.03	--	<0.05	<0.05	<2	0.0012	4.2	--	<2	<0.0005	0.0002F	--	<0.05
		30-Dec-08	N	1739.63	1742.63	<1V1	<0.03	--	<0.05	<0.05	<2	0.001	4.7	--	<2V1	<0.0005	0.0001F	--	<0.05
		6-Jan-09	N	1739.63	1742.63	<1	<0.03	--	<0.05	0.01F	<2	0.0011	4.4	--	<2	<0.0005	0.0001F	--	<0.05
		13-Jan-09	N	1739.63	1742.63	<1	0.005F	<0.001	<0.05	0.02F	<2	0.0014	4.4	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		20-Jan-09	N	1739.63	1742.63	<1	0.005F	--	<0.05	<0.05	<2	0.0014	3.5	--	<2	<0.0005	0.0002F	--	<0.05
		27-Jan-09	N	1739.63	1742.63	<1	<0.03	--	<0.05	<0.05	<2	0.0014	3.6	--	<2	0.0001F	0.0002F	--	<0.05
		3-Feb-09	N	1739.63	1742.63	<1	0.007F	--	<0.05	<0.05	<2	0.0017	3.9	--	<2	<0.0005	0.0002F	--	0.01F
		10-Feb-09	N	1739.63	1742.63	<1	0.005F	<0.001H3	<0.05	<0.05	<2	0.002	3.9	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		17-Feb-09	N	1739.63	1742.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 50	26-Aug-08	N	1829.95	1832.48	415	25.4M3	<0.001	<0.05	0.28	61.7	0.0783	74.1	<0.03M2	199	0.0003F	0.0963	0.005F	7.21M3
		2-Sep-08	N	1829.95	1832.48	42.3	4.49	<0.001	<0.05	0.26	35.3	0.111B7	79	<0.03	9.6	0.0002F	0.165	<0.03	15.7
		9-Sep-08	N	1829.95	1832.48	47.8D2	3.9D2	<0.001	<0.05	0.18	26.8	0.116	57	<0.03	2	0.0002	0.238D2	<0.05D2	16.9
		16-Sep-08	N	1829.95	1832.48	37.4	2.3	<0.001	<0.1D1	0.13D1	21.8	0.0978	49.9	<0.03	1.4	0.0001	0.247D1	<0.03	14.2D1
		23-Sep-08	N	1829.95	1832.48	42.3	2.18	<0.001	<0.05	0.22	22D2	0.132D2B7	62.1	<0.03	0.9	0.0002	0.552D2	<0.03	17.6
		30-Sep-08	N	1829.95	1832.48	35.7	1.7	<0.001	<0.05	0.09	15.7	0.135	52.3	<0.03	1.4	0.0001	0.403D1	<0.03	12.3
		7-Oct-08	N	1829.95	1832.48	32.4	1.49	<0.001	<0.05	0.14	12.1D1	0.117	44.7	<0.03	1.2F	<0.0005	0.358D1	<0.03	9.43
		14-Oct-08	N	1829.95	1832.48	27.2	1.25	<0.001	<0.05	0.11	11D1	0.0817	40.2	<0.03	1FD1	<0.0005	0.337D1	<0.03	6.49
		21-Oct-08	N	1829.95	1832.48	23	1.04	<0.001	<0.1D1	0.09	11D1	0.0723B7	44.5	<0.05D1	0.9FD1	<0.0005	0.347D1	<0.03	4.84
		28-Oct-08	N	1829.95	1832.48	19.9	0.918	<0.001	0.01F	<0.3D2	6.3	0.0578	28.5D2	<0.03	0.8FD2	<0.0005	0.3D2	<0.03	4.26
		4-Nov-08	N	1829.95	1832.48	19.1	0.865	<0.001	<0.05	0.03F	7	0.0546	31	<0.03	0.8F	<0.0005	0.235	<0.03	3
		11-Nov-08	N	1829.95	1832.48	31.4	1.4	<0.001	<0.05	0.07	9.5	0.0847	26.2	<0.05D2	0.8FD2	<0.0005	0.256D2	0.006F	4.3D2
		18-Nov-08	N	1829.95	1832.48	28	1.25	<0.001	<0.05	0.07FD2	9.4	0.0845	30.1	<0.03	0.4F	<0.0005	0.362D2	<0.03	4.45D2
		25-Nov-08	N	1829.95	1832.48	25.6	1.14	<0.001	<0.05	0.07	8.2	0.0764D1B3	34.8	<0.03	0.5F	<0.0005	0.474D1	<0.1D1	4.97
		2-Dec-08	N	1829.95	1832.48	17.1	0.749	<0.001	<0.05	0.03F	7	0.0741	20.4	<0.05D1	<2	0.0001F	0.347D1	<0.03	3.4
		9-Dec-08	N	1829.95	1832.48	16.8	0.741	<0.001	<0.05	0.04F	6.7	0.0718	23.1	<0.03	0.3F	<0.0005	0.314D1	<0.03	3.84
		16-Dec-08	N	1829.95	1832.48	16.2	0.713	<0.001	0.01F	0.05	5.4D1	0.0656	21.9	<0.03	<2	<0.0005	0.295D1	0.007F	2.71D1
		23-Dec-08	N	1829.95	1832.48	13.7	0.605	--	<0.05	<0.3D1	6.3	0.0809	24	--	0.5F	<0.0005	0.236D1	--	3.03
		30-Dec-08	N	1829.95	1832.48	15D1	0.64	--	<0.05	0.06	6.6	0.0697	26.2	--	<8D1	<0.0005	0.196	--	3.21
		6-Jan-09	N	1829.95	1832.48	12.7	0.571	--	<0.05	0.06FD1	5.1D1	0.0625	20.5	--	<2	<0.0005	0.145	--	2.81
		13-Jan-09	N	1829.95	1832.48	13.5	0.604	<0.001	<0.3D1	0.08	5.3	0.0769	19.1	<0.03	<2	0.0001F	0.135	<0.1D1	3.07D1
		20-Jan-09	N	1829.95	1832.48	14.1	0.632	--	<0.05L1V1	0.04F	5.6	0.0761	19.3	--	<2	<0.0005	0.131	--	2.85

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 50	27-Jan-09	N	1829.95	1832.48	13.9	0.613	--	<0.05	0.06	6	0.0695	19D1	--	<2	0.0002F	0.102	--	2.46
		3-Feb-09	N	1829.95	1832.48	14.8	0.644	--	<0.05	0.05	6.3	0.0749	17.8	--	<2	<0.0005	0.0904	--	2.49
		10-Feb-09	N	1829.95	1832.48	14.9	0.69D2	<0.001H3	0.01F	<0.3D2	5.4	0.0885	20.5	<0.03	<2	<0.0005	0.0901	<0.1D2	2.59D2
		17-Feb-09	N	1829.95	1832.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 51	26-Aug-08	N	1867.87	1844.35	16.9	0.15	<0.001	0.05	<0.05	12.6	0.0446	4.7	<0.03	85.5	<0.0005	0.0041	<0.03	<0.05
		2-Sep-08	N	1867.87	1844.35	16	0.094	<0.001	0.06	<0.05	10.8	0.0341B7	5.1	<0.03	63.2	<0.0005	0.0031	0.005F	<0.05
		9-Sep-08	N	1867.87	1844.35	22.9	0.127	<0.001	0.06	<0.05V1	11	0.0345	4.3M1	<0.03M2	65.9	<0.0005	0.0059	<0.03	<0.05
		16-Sep-08	N	1867.87	1844.35	14.3	0.081	<0.001	0.04	<0.05	7.9	0.0145	4.9	<0.03M2	31.9	<0.0005	0.0026	0.016	<0.05
		23-Sep-08	N	1867.87	1844.35	22.5	0.141	<0.001	0.04	<0.05	10.3	0.0166	4.7	<0.03	36.4	<0.0005	0.0032	0.005	<0.05
		30-Sep-08	N	1867.87	1844.35	17.4	0.114	<0.001	0.03	<0.05	8.4	0.0125	4.5	<0.03M2	22.9	<0.0005	0.0019	<0.03	<0.05
		7-Oct-08	N	1867.87	1844.35	17.6	0.139	<0.001	0.03F	<0.05	6.9	0.0098	4.2	<0.03M2	15.9	<0.0005	0.0014	<0.03	<0.05
		14-Oct-08	N	1867.87	1844.35	17.7	0.181	<0.001	0.02F	<0.05	6.2	0.0075	3.8	<0.03M2	12.4	<0.0005	0.0013	0.008F	<0.05
		21-Oct-08	N	1867.87	1844.35	14.7	0.152	<0.001	0.02F	<0.05	5.9	0.0065B7	3.5	<0.03M2	9.5	<0.0005	0.0011	<0.03	<0.05
		28-Oct-08	N	1867.87	1844.35	23.5	0.281	<0.001	0.04F	<0.3D2	7.3M1	0.0082	4M1	<0.03M2	11.9	<0.0005	0.0018	0.006F	0.01F
		4-Nov-08	N	1867.87	1844.35	21.6	0.276	<0.001	0.03F	<0.05	7.6	0.0075	4.1	<0.03	6.4	<0.0005	0.0016	<0.03	<0.05
		11-Nov-08	N	1867.87	1844.35	11.2	0.148M1	<0.001	<0.05	<0.05	4.3	0.0041	3.1	<0.03M2	1.6F	<0.0005	0.0007	0.005F	<0.05
		18-Nov-08	N	1867.87	1844.35	12.8	0.189	<0.001	0.03F	<0.05	4.3	0.0051	3.7M1	<0.03M2	1.2F	<0.0005	0.0008	<0.03	<0.05
		25-Nov-08	N	1867.87	1844.35	13.8	0.227M1	<0.001	0.03F	<0.05	4.6	0.0043	3.8M1	<0.03M2	0.9F	<0.0005	0.0007	<0.03	0.02F
		2-Dec-08	N	1867.87	1844.35	14.1	0.244	<0.001	<0.05	<0.05	4.7	0.0049	3	<0.03M2	0.5F	<0.0005	0.0011	<0.03	<0.05
		9-Dec-08	N	1867.87	1844.35	13.2	0.228	<0.001	0.02F	<0.05	4.5	0.0042	3.4	<0.03M2	0.4F	<0.0005	0.0008	<0.03	<0.05
		16-Dec-08	N	1867.87	1844.35	8.2	0.154	<0.001	0.01F	<0.05	3.1	0.0029	2.8	<0.03	<2	<0.0005	0.0006	<0.03	<0.05
		23-Dec-08	N	1867.87	1844.35	9.5	0.188	--	<0.05	<0.05	2.9	0.0038	2.9	--	0.3F	<0.0005	0.0005	--	<0.05
		30-Dec-08	N	1867.87	1844.35	10.3	0.237	--	0.02F	<0.05	3.4	0.0037	3.4	--	<2V1	<0.0005	0.0005	--	<0.05
		6-Jan-09	N	1867.87	1844.35	9.6	0.239	--	<0.05	<0.05	3.6	0.0033	2.4	--	<2	<0.0005	0.0005	--	<0.05
		13-Jan-09	N	1867.87	1844.35	7.1	0.176	<0.001	<0.05	<0.05	2.6	0.0031	2.8	<0.03	<2	<0.0005	0.0004F	<0.03	<0.05
		20-Jan-09	N	1867.87	1844.35	9.7	0.273	--	<0.05	<0.05	3.4	0.0035	3.1	--	<2	<0.0005	0.0005	--	0.02F
		27-Jan-09	N	1867.87	1844.35	6.6	0.179	--	<0.05	<0.05	2.5	0.0027	2.4	--	<2	0.0001F	0.0004F	--	<0.05
		3-Feb-09	N	1867.87	1844.35	9.7	0.305	--	0.01F	<0.05	3.5	0.0034	3.5	--	<2	<0.0005	0.0005	--	0.02F
		10-Feb-09	N	1867.87	1844.35	5.6	0.163	--	0.02F	<0.05	2.6	<0.0005	3.1	--	<2	<0.0005	0.0002F	--	<0.05
		17-Feb-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
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D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
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H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 51	3-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	1867.87	1844.35	6.9	0.309	<0.001	0.01F	<0.05	3.5	0.0032	3.1	<0.03	<2	<0.0005	0.0003F	<0.03	0.02F
		17-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	1867.87	1844.35	4.9	0.251	<0.001	0.02F	<0.05	2.4	0.0026	3	<0.03	<2	<0.0005	0.0003F	<0.03	0.02F
		14-Apr-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	1867.87	1844.35	4.4	0.287	<0.001	0.01F	<0.05	2.3	0.0024	2.4	<0.03	<2	<0.0005	0.0002F	<0.03	0.03F
		12-May-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	1867.87	1844.35	4.2	0.256	<0.001	0.01F	<0.05	2.6	0.0032	3.1	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		9-Jun-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	1867.87	1844.35	2.9	0.214	<0.001	0.01F	<0.05	2.2	0.0029B1	2.4	<0.03	<2	<0.0005	0.0002F	<0.03	0.01F
		7-Jul-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		14-Jul-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	1867.87	1844.35	3.8	0.25	<0.001	0.03F	<0.05	2.2	0.0036	2.7	<0.03	<2	<0.0005	0.0002F	<0.03	<0.05
		4-Aug-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	1867.87	1844.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	1867.87	1844.35	4.8	0.339	<0.001	<0.05	<0.05	2.9	0.0041	3.2	<0.03	<2V1	<0.0005	0.0003F	<0.03	0.02F
	TEST 52	26-Aug-08	N	1899	1901.88	148	1.87	<0.001	0.05	<0.05	113	0.142	14.8	<0.03	129	<0.0005	0.0126	0.006F	<0.05
		2-Sep-08	N	1899	1901.88	8.8	0.538	<0.001	0.13	<0.05	23.9	0.0229B7	10.1	<0.03	2.9	<0.0005	0.0072	<0.03	<0.05
		9-Sep-08	N	1899	1901.88	3.2	0.426	<0.001	0.08	<0.05V1	11.9	0.0119	6.6	0.02	0.9	<0.0005	0.001	<0.03	<0.05
		16-Sep-08	N	1899	1901.88	9.1	1.44	<0.001	0.02	<0.05	9.4	0.0131	4.1	<0.03	<2	<0.0005	0.0018	<0.03	0.01
		23-Sep-08	N	1899	1901.88	5.7	1.07	<0.001	<0.05	<0.05	6.7	0.0207	2.6	<0.03	0.3	<0.0005	0.0009	<0.03	<0.05

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 52	30-Sep-08	N	1899	1901.88	9.3	1.78	<0.001	0.01	<0.05	11.1	0.0251	5.2	<0.03	0.4	<0.0005	0.0014	<0.03	0.02
		7-Oct-08	N	1899	1901.88	5.3	1.02	<0.001	0.01F	<0.05	8	0.0151	4.3	<0.03	0.5F	<0.0005	0.0003F	<0.03	<0.05
		14-Oct-08	N	1899	1901.88	5.5	1.79	<0.001	<0.05	<0.05	7.9	0.0092	4.3	<0.03	<2	<0.0005	0.0003F	0.01F	<0.05
		21-Oct-08	N	1899	1901.88	7.2	3.65	<0.001	0.02F	<0.05	11.6	0.0039	4.8	<0.03	<2	<0.0005	0.0005	<0.03	<0.05
		28-Oct-08	N	1899	1901.88	6.4	6.07	<0.001	0.03F	<0.3D2	10.8	0.0026	7	<0.03	<2	0.0001F	0.0006	<0.03	0.06
		4-Nov-08	N	1899	1901.88	2.1	2.33	<0.001	0.02F	<0.05	6.8	0.0039	4.2	<0.03	<2	<0.0005	0.0003F	<0.03	<0.05
	TEST 52S	11-Nov-08	N	1899	1901.88	0.7F	0.878	<0.001	<0.05	<0.05	3.7	0.0018	1.3F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		18-Nov-08	N	1899	1901.88	0.4F	0.561	<0.001	<0.05	<0.05	1.2F	0.0013	0.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		25-Nov-08	N	1899	1901.88	0.5F	0.668	<0.001	<0.05	<0.05	1.5F	0.0009	0.7F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		2-Dec-08	N	1899	1901.88	<1	0.521	<0.001	<0.05	<0.05	1.2F	0.0011	<2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		9-Dec-08	N	1899	1901.88	0.3F	0.519	<0.001	<0.05	<0.05	1.6F	0.0008	<2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		16-Dec-08	N	1899	1901.88	<1	0.522	<0.001	<0.05	<0.05	0.8F	0.0007	<2	<0.03	<2	<0.0005	<0.0005	<0.03	0.02F
		23-Dec-08	N	1899	1901.88	<1	0.496	--	<0.05	<0.1D1	0.4F	0.0008	<2	--	<2	<0.0005	<0.0005	--	<0.1D1
		30-Dec-08	N	1899	1901.88	0.5F	0.606	--	<0.05V1	<0.05	1F	0.001	<2V1	--	1.2F	<0.0005	<0.0005	--	<0.05
		6-Jan-09	N	1899	1901.88	<1	0.454	--	<0.05	<0.05	0.8F	0.0008	<2	--	<2	<0.0005	<0.0005	--	<0.05
		13-Jan-09	N	1899	1901.88	0.4F	0.423	<0.001	0.01F	<0.05	0.6F	0.001	<2	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		20-Jan-09	N	1899	1901.88	0.6F	0.619	--	<0.05L1V1	<0.05	1F	0.0013	0.5F	--	<2	<0.0005	<0.0005	--	<0.05
		27-Jan-09	N	1899	1901.88	0.5F	0.493	--	<0.05	<0.05	0.7F	0.0012	<2	--	<2	0.0001F	<0.0005	--	<0.05
		3-Feb-09	N	1899	1901.88	0.5F	0.486	--	<0.05	<0.05	0.9F	0.0016	<2	--	<2	<0.0005	<0.0005	--	<0.05
		10-Feb-09	N	1899	1901.88	0.4F	0.431	<0.001H3	<0.05	<0.05	0.7F	0.0016	0.5F	<0.03	<2	<0.0005	<0.0005	<0.03	<0.05
		17-Feb-09	N	1899	1901.88	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 53	26-Aug-08	N	1984.74	1987.74	3.2	4.97	<0.001	<0.05	0.26	4.9	0.0009	25.6	<0.03	13.9	<0.0005	0.0005	0.02FD1	4.87
		2-Sep-08	N	1984.74	1987.74	0.4F	5.25	<0.001	<0.05	0.28	1.4F	0.0007	22.9	<0.03	0.9F	<0.0005	0.0004F	<0.03	1.42
		9-Sep-08	N	1984.74	1987.74	<1	1.13D2	<0.001	<0.05	0.23	0.8	0.0006	21.9	<0.03	0.4	<0.0005	0.0004	<0.05D2	3.36
		16-Sep-08	N	1984.74	1987.74	<1	0.221	<0.001	<0.1D1	0.07D1	0.3	0.0012	17.8	<0.03	<2	<0.0005	0.0003	<0.03	3.66D1
		23-Sep-08	N	1984.74	1987.74	<1	0.208	<0.001	<0.05	0.12	<8D2	0.001	22.9	<0.03	<2	0.0001	0.0005	0.006	4.89
		30-Sep-08	N	1984.74	1987.74	<1	0.128	<0.001	<0.05	0.02	1.3	0.0004	18.9	<0.03	<2	<0.0005	0.0002	<0.03	0.77
		7-Oct-08	N	1984.74	1987.74	<1	0.043	<0.001	<0.05	0.08	<3D1	0.001	16.7	0.01F	<2	<0.0005	0.0003F	<0.03	2.81
		14-Oct-08	N	1984.74	1987.74	<1	0.029F	<0.001	0.01F	0.05	<3D1	0.001	15	0.02F	<3D1	<0.0005	0.0001F	0.007F	2.32
		21-Oct-08	N	1984.74	1987.74	<1	0.022F	<0.001	0.01F	0.04F	0.5F	0.0003F	12.6	<0.03	<2	<0.0005	0.0002F	0.008F	1.8
		28-Oct-08	N	1984.74	1987.74	<2D2	0.01FD2	<0.001	<0.1D2	<0.3D2	<3D2	0.0007	15.8D2	<0.05D2	<3D2	<0.0005	0.0002F	<0.05D2	3.58

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 53	4-Nov-08	N	1984.74	1987.74	<1	0.019F	<0.001	<0.05	0.01F	<2	0.0004F	14.8	<0.03	<2	<0.0005	0.0002F	<0.03	1.58
		11-Nov-08	N	1984.74	1987.74	<1	0.011F	<0.001	<0.05	0.02F	0.6F	0.0006	11	<0.03	<2	<0.0005	<0.0005	<0.03	1.5
		18-Nov-08	N	1984.74	1987.74	<1	0.011F	<0.001	0.02F	0.02F	<2	0.0002F	14.2	<0.03	<2	<0.0005	0.0002F	<0.03	1.94
		25-Nov-08	N	1984.74	1987.74	<1	0.017F	<0.001	<0.05	<0.05	<2	0.0002F	11.9	<0.03	<2	<0.0005	<0.0005	<0.03	0.59
		2-Dec-08	N	1984.74	1987.74	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0003F	9.3	<0.03	<2	<0.0005	0.0003F	<0.03	1.94
		9-Dec-08	N	1984.74	1987.74	<1	<0.03	<0.001	<0.05	<0.05	0.7F	0.0003F	9.3	<0.03	<2	<0.0005	0.0002F	<0.03	2.42
		16-Dec-08	N	1984.74	1987.74	<1	0.006F	<0.001	0.01F	<0.05	<2	0.0002F	8.4	<0.03	<2	<0.0005	0.0001F	<0.03	2.25
		23-Dec-08	N	1984.74	1987.74	<1	<0.03	--	<0.05	0.01F	<2	0.0003F	8.5	--	<2	<0.0005	0.0001F	--	2.62
		30-Dec-08	N	1984.74	1987.74	<1V1	<0.03	--	<0.05V1	<0.05	<2	0.0003F	8.7	--	<2V1	<0.0005	<0.0005	--	2.03
		6-Jan-09	N	1984.74	1987.74	<1	<0.03	--	<0.05	0.02F	<2	0.0002F	6.2	--	<2	<0.0005	0.0001F	--	2.27
		13-Jan-09	N	1984.74	1987.74	<1	<0.03	<0.001	<0.05	0.03F	<2	0.0002F	6.2	<0.03	<2	<0.0005	0.0001F	<0.03	2.49
		20-Jan-09	N	1984.74	1987.74	<1	<0.03	--	<0.05	0.02F	<2	0.0003F	7.8	--	<2	<0.0005	<0.0005	--	2.26
		27-Jan-09	N	1984.74	1987.74	<1	<0.03	--	<0.05	<0.05	<2	0.0002F	4.8	--	<2	0.0002F	<0.0005	--	2.71
		3-Feb-09	N	1984.74	1987.74	<1	<0.03	--	<0.05	0.02F	<2	0.0003F	5.5	--	<2	<0.0005	0.0001F	--	3.27
		10-Feb-09	N	1984.74	1987.74	<1	<0.03	<0.001H3	0.02F	<0.05	<2	0.0003F	5.8	<0.03	<2	<0.0005	0.0002F	<0.03	3.54
		17-Feb-09	N	1984.74	1987.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	TEST 54	26-Aug-08	N	2056.38	2075	44	0.3	<0.001	0.02F	0.07	60	0.0351	4.3	<0.03	28.5	0.0002F	0.0048	0.006F	0.03F
		2-Sep-08	N	2056.38	2075	36.1D1	0.14D1	<0.001	0.02FD1	<0.1D1	37.4D1	0.0282	4.2D1	<0.05D1	15.6D1	0.0001F	0.0014	<0.05D1	<0.1D1
		9-Sep-08	N	2056.38	2075	33.3V1	0.15	<0.001	0.02	<0.05V1	30.5	0.0184	3.9	<0.03	8.9	<0.0005	0.0014	0.007	<0.05
		16-Sep-08	N	2056.38	2075	26.1	0.157	<0.001	0.02	<0.05	21.6	0.0135	3.7	<0.03	4.4	<0.0005	0.0006	<0.03	<0.05
		23-Sep-08	N	2056.38	2075	24.8	0.178	<0.001	<0.05	<0.05	18.8	0.0131	3.2	<0.03	2.8	<0.0005	0.0004	<0.03	<0.05
		30-Sep-08	N	2056.38	2075	27.4	0.237	<0.001	<0.05	<0.05	18	0.0119	4	<0.03	1.5	<0.0005	0.0003	<0.03	0.02
		7-Oct-08	N	2056.38	2075	19.1	0.214	<0.001	<0.05	0.01F	11.2	0.0101	3	<0.03	0.6F	<0.0005	0.0002F	<0.03	0.02F
		14-Oct-08	N	2056.38	2075	19	0.283	<0.001	0.01F	<0.05	10.2	0.0079	3.4	0.02F	0.4F	<0.0005	0.0002F	0.006F	0.04F
		21-Oct-08	N	2056.38	2075	15.8	0.248	<0.001	0.02F	<0.05	10	0.0073B7	3.2	<0.03	0.5F	<0.0005	0.0002F	<0.03	0.02F
		28-Oct-08	N	2056.38	2075	16.2D2	0.29D2	<0.001	<0.1D2	<0.3D2	8.1D2	0.0068	3.7FD2	<0.05D2	<3D2	<0.0005	0.0002F	<0.05D2	0.66
		4-Nov-08	N	2056.38	2075	16.1	0.296	<0.001	0.01F	<0.05	8.6	0.008	3.7	<0.03	<2	<0.0005	0.0003F	<0.03	0.05
		11-Nov-08	N	2056.38	2075	19.9	0.369	<0.001	<0.05	0.01F	9.3	0.0099	3.4	<0.03	<2	<0.0005	0.0002F	<0.03	0.07
		18-Nov-08	N	2056.38	2075	12.3	0.269	<0.001	0.02F	<0.05	6.2	0.0056	3.4	<0.03	<2	<0.0005	0.0003F	<0.03	0.07
		25-Nov-08	N	2056.38	2075	11.8	0.268	<0.001	0.01F	0.02F	5.5	0.0058	2.8	<0.03	<2	<0.0005	0.0003F	<0.03	0.07
		2-Dec-08	N	2056.38	2075	12.7	0.301	<0.001	<0.05	<0.05	5.4	0.0055	2.8	<0.03	<2	<0.0005	0.0003F	<0.03	0.08

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 54	9-Dec-08	N	2056.38	2075	11.9	0.292	<0.001	<0.05	<0.05	5.8	0.0056	2.7	<0.03	<2	<0.0005	0.0003F	<0.03	0.08
		16-Dec-08	N	2056.38	2075	10.3	0.253	<0.001	0.01F	<0.05	3.3D1	0.0045	2	<0.03	<2	<0.0005	0.0003F	<0.03	0.06FD1
		23-Dec-08	N	2056.38	2075	10.3	0.274	--	<0.05	<0.05	4.6	0.0055	2.4	--	<2	<0.0005	0.0003F	--	0.09
		30-Dec-08	N	2056.38	2075	9.9	0.308	--	<0.05V1	<0.05	4.9	0.005	2.3	--	<2	<0.0005	0.0003F	--	0.12
		6-Jan-09	N	2056.38	2075	9.3	0.238	--	0.02F	<0.05	3.9	0.0043	1.8F	--	<2	<0.0005	0.0003F	--	0.08
		13-Jan-09	N	2056.38	2075	10.6	0.268	<0.001	<0.05	0.01F	4.2	0.0056	2.7	<0.03	<2	<0.0005	0.0004F	<0.03	0.09
		20-Jan-09	N	2056.38	2075	9.7	0.244	--	<0.05	0.02F	3.6	0.0045	2.5	--	<2	<0.0005	0.0003F	--	0.1
		27-Jan-09	N	2056.38	2075	9	0.224	--	<0.05	<0.05	3.8	0.0041	2.1	--	<2	0.0002F	0.0003F	--	0.11
		3-Feb-09	N	2056.38	2075	9.7	0.245	--	0.01F	0.02F	4	0.0045	2.6	--	<2	<0.0005	0.0004F	--	0.13
		10-Feb-09	N	2056.38	2075	9.2	0.249	--	<0.05	0.01F	4.3	0.002	2.6	--	<2	<0.0005	0.0003F	--	0.13
		17-Feb-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Feb-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Mar-09	N	2056.38	2075	9.7	0.277	<0.001	<0.05	0.02F	4.3	0.0041	2.2	<0.03	<2	<0.0005	0.0004F	0.006F	0.18
		17-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		24-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		31-Mar-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		7-Apr-09	N	2056.38	2075	7.5	0.19	<0.001	<0.05	<0.05	3.2	0.0039B7	2.2	<0.03	<2	<0.0005	0.0004F	<0.03	0.17
		14-Apr-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Apr-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Apr-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-May-09	N	2056.38	2075	8.9	0.219	<0.001	0.02F	0.02F	3.3	0.004	2.1	<0.03	<2	<0.0005	0.0004F	0.005F	0.22
		12-May-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		19-May-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-May-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		2-Jun-09	N	2056.38	2075	10.9	0.237	<0.001	<0.05	0.02F	3.7	0.005	2.3	<0.03	<2	<0.0005	0.0006	0.006F	0.19
		9-Jun-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		16-Jun-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		23-Jun-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		30-Jun-09	N	2056.38	2075	13.4	0.296	<0.001	<0.05	0.02F	4.2	0.008B1	2.9	<0.03	<2	<0.0005	0.001	<0.03	0.26
		7-Jul-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		ACZS													
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	Magnesium MG/L	Manganese MG/L	Mercury MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Uranium MG/L	Vanadium MG/L	Zinc MG/L
RES-009E	TEST 54	14-Jul-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		21-Jul-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		28-Jul-09	N	2056.38	2075	17	0.32	<0.001	<0.05	0.03F	3.6	0.007	2.3	<0.03	<2	<0.0005	0.0013	<0.03	0.32
		4-Aug-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		11-Aug-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		18-Aug-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		25-Aug-09	N	2056.38	2075	16.5	0.331	<0.001	<0.05	0.03F	3.9	0.0067	3.1	0.02F	<2V1	<0.0005	0.0015	<0.03	0.34
		1-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		22-Sep-09	N	2056.38	2075	16.9	0.354	<0.001	0.03F	0.06	3.2	0.0071	2.1	<0.03	<2	<0.0005	0.0017	0.01F	0.41
		29-Sep-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		6-Oct-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		13-Oct-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		20-Oct-09	N	2056.38	2075	10.5	0.231	<0.001	0.03F	0.04F	2.6	0.0036	1.6F	<0.03	<2	<0.0005	0.001	0.01F	0.39
		27-Oct-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		3-Nov-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		10-Nov-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		17-Nov-09	N	2056.38	2075	7.8	0.18	<0.001	<0.05	0.02F	2.7	0.0028	1.5F	<0.05D1	<2	<0.0005	0.001	0.01F	0.29
		24-Nov-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		1-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		8-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		15-Dec-09	N	2056.38	2075	6.5	0.143	<0.001	<0.05	0.03FD1	2.2	0.0025	1F	<0.03	0.3F	<0.0005	0.0007	<0.05D1	0.23
		22-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		29-Dec-09	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		5-Jan-10	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		12-Jan-10	N	2056.38	2075	5.7	0.127	<0.001	<0.05	<0.05	1.6F	0.0025	1F	<0.03	<2	<0.0005	0.0007	<0.03	0.2
		19-Jan-10	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		26-Jan-10	N	2056.38	2075	--	--	--	--	--	--	--	--	--	--	--	--	--	--

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 1	26-Aug-08	N	1639	1642	<20	218.04	3333	<0.05	1770	8.06	2290	1070
		2-Sep-08	N	1639	1642	<20	109	3333	<0.05	2840	8.08	512	107
		9-Sep-08	N	1639	1642	<20	30	3333	<0.05	3304	7.96	123	21
		16-Sep-08	N	1639	1642	<20	73.47	3333	<0.05	3141	8.41	251	40
		23-Sep-08	N	1639	1642	<20	<20	3333	<0.05	3247	7.43	119	18
		30-Sep-08	N	1639	1642	<20	<20	3333	<0.05	3244	7.43	84	13
		7-Oct-08	N	1639	1642	<20	46	3333	<0.05	3182	8.81	138	25
		14-Oct-08	N	1639	1642	<20	52	3333	<0.05	3125	8.03	189	29
		21-Oct-08	N	1639	1642	<20	38	3333	<0.05	3283	7.79	130	21
		28-Oct-08	N	1639	1642	<20	38	3333	<0.05	3173	7.46	142	24
		4-Nov-08	N	1639	1642	<20	21	3333	<0.05	3170	7.38	69	<10
	TEST 1S	11-Nov-08	N	1639	1642	<20	55	3333	<0.05	1517	7.86	279	66
		18-Nov-08	N	1639	1642	<20	25	3333	<0.05	3310	7.36	118	29
		25-Nov-08	N	1639	1642	<5	19	3333	<0.05	3312	6.83	104	30
		2-Dec-08	N	1639	1642	<5	14	3333	<0.05	3220	6.85	87	21
		9-Dec-08	N	1639	1642	<5	<5	3333	<0.05	3254	7.32	65	17
		16-Dec-08	N	1639	1642	<5	13	3333	<0.05	3256	7.01	70	16
		23-Dec-08	N	1639	1642	<5	10	3333	<0.05	3266	6.77	46	11
		30-Dec-08	N	1639	1642	<5	13	3333	<0.05	3266	7.73	73	19
		6-Jan-09	N	1639	1642	<5	13	3333	<0.05	3204	7.69	82	22
		13-Jan-09	N	1639	1642	<5	14	3333	<0.05	3263	7.79	66	18
		20-Jan-09	N	1639	1642	<5	11	3333	<0.05	3223	7.54	74	20
		27-Jan-09	N	1639	1642	<5	7	3333	<0.05	3203	7.66	67	19
		3-Feb-09	N	1639	1642	<5	9	3333	<0.05	3133	7.72	64	14
		10-Feb-09	N	1639	1642	<5	14	3333	<0.05	3215	7.71	82	22
		17-Feb-09	N	1639	1642	<5	15	3333	<0.05	3230	7.71	93	23
	TEST 2	26-Aug-08	N	1745	1748	<20	45.03	3333	<0.05	2200	7.37	2740	1860
		2-Sep-08	N	1745	1748	<20	20	3333	<0.05	3143	7.32	1930	1060
		9-Sep-08	N	1745	1748	<20	17	3333	<0.05	3229	7.38	1960	1200
		16-Sep-08	N	1745	1748	<20	17.775	3333	<0.05	3137	7.54	1690	992
		23-Sep-08	N	1745	1748	<20	17	3333	<0.05	3117	7.74	1450	884

--	Not requested.
MG/L	milligrams per liter
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B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 2	30-Sep-08	N	1745	1748	<20	17	3333	<0.05	3212	7.74	1830	1140
		7-Oct-08	N	1745	1748	<20	20	3333	<0.05	2968	7.18	1510	907
		14-Oct-08	N	1745	1748	<20	17	3333	<0.05	3166	7.48	1490	960
		21-Oct-08	N	1745	1748	<20	18	3333	<0.05	3295	7.34	1240	732
		28-Oct-08	N	1745	1748	<20	19	3333	<0.05	3051	7.88	1400	853
		4-Nov-08	N	1745	1748	<20	21	3333	<0.05	3203	7.61	1830	1050
		11-Nov-08	N	1745	1748	<20	19	3333	<0.05	3276	7.8	1290	753
		18-Nov-08	N	1745	1748	<20	12	3333	<0.05	2620	8.02	466	230
		25-Nov-08	N	1745	1748	<5	18	3333	<0.05	3842	7.62	1380	726
		2-Dec-08	N	1745	1748	<5	15	3333	<0.05	3287	7.75	914	492
		9-Dec-08	N	1745	1748	<5	18	3333	<0.05	3301	7.67	1210	708
		16-Dec-08	N	1745	1748	<5	15	3333	<0.05	3068	7.6	865	457
		23-Dec-08	N	1745	1748	<5	14	3333	<0.05	3097	7.49	848	415
		30-Dec-08	N	1745	1748	<5	14	3333	<0.05	3119	7.66	749	383
		6-Jan-09	N	1745	1748	<5	14	3333	<0.05	3177	7.54	857	452
		13-Jan-09	N	1745	1748	<5	15	3333	<0.05	3047	7.64	890	462
		20-Jan-09	N	1745	1748	<5	14	3333	<0.05	2987	7.66	863	445
		27-Jan-09	N	1745	1748	<5	14	3333	<0.05	3083	7.62	880	504
		3-Feb-09	N	1745	1748	<5	14	3333	<0.05	2962	7.74	921	461
		10-Feb-09	N	1745	1748	<5	15	3333	0.11	2494	7.49	1080	625
		17-Feb-09	N	1745	1748	<5	17	3333	0.14	3125	7.66	877	429
		24-Feb-09	N	1745	1748	<5	13.035	3333	<0.05	3130	7.04	901	497
		3-Mar-09	N	1745	1748	<5	14.22	3333	<0.05	2821	7.1	981	485
		10-Mar-09	N	1745	1748	<5	14.22	3333	<0.05	2945	7.07	937	528
		17-Mar-09	N	1745	1748	<5	15.405	3333	<0.05	2945	7.23	930	480
		24-Mar-09	N	1745	1748	<5	14.22	3333	<0.05	2918	6.88	915	512
		31-Mar-09	N	1745	1748	6.995	10.665	3333	<0.05	2977	6.84	892	474
		7-Apr-09	N	1745	1748	<5	14.22	3333	<0.05	3080	6.82	862	488
		14-Apr-09	N	1745	1748	<5	13.035	3333	<0.05	2925	6.91	849	461
		21-Apr-09	N	1745	1748	<5	15.405	3333	<0.05	3025	7.15	867	480
		28-Apr-09	N	1745	1748	<5	13.035	3333	<0.05	2990	6.92	793	449

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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 2	5-May-09	N	1745	1748	<5	13.035	3333	<0.05	3168	7.3	901	491
		12-May-09	N	1745	1748	<5	9.48	3333	<0.05	3013	7	873	493
		19-May-09	N	1745	1748	<5	14.22	3333	<0.05	3111	7.03	964	555
		26-May-09	N	1745	1748	<5	13.92	3333	<0.05	3005	7.16	1060	600
		2-Jun-09	N	1745	1748	<5	13.92	3333	<0.05	2957	6.76	868	451
		9-Jun-09	N	1745	1748	<5	13.92	3333	<0.05	3070	7.17	958	515
		16-Jun-09	N	1745	1748	<5	15.08	3333	<0.05	2920	7.1	949	516
		23-Jun-09	N	1745	1748	<5	12.76	3333	<0.05	2984	7.15	976	523
		30-Jun-09	N	1745	1748	5	12.76	3333	<0.05	2931	7.04	875	449
		7-Jul-09	N	1745	1748	<5	17.4	3333	<0.05	2572	7.16	1120	637
		14-Jul-09	N	1745	1748	<5	15.08	3333	<0.05	2843	7.14	975	518
		21-Jul-09	N	1745	1748	<5	16.24	3333	<0.05	2822	7.53	1130	649
		28-Jul-09	N	1745	1748	<5	16.24	3333	<0.05	2645	6.94	1240	747
		4-Aug-09	N	1745	1748	<5	17.4	3333	<0.05	2629	7.44	1190	675
		11-Aug-09	N	1745	1748	<5	15.08	3333	<0.05	2792	6.97	1100	677
		18-Aug-09	N	1745	1748	<5	13.92	3333	<0.05	2894	6.97	1050	569
		25-Aug-09	N	1745	1748	<5	16.24	3333	--	2922	7.05	1090	615
	TEST 3	26-Aug-08	N	1771.75	1791.4	<20	34.365	4000	<0.05	2808	7.57	2000	1150
		2-Sep-08	N	1771.75	1791.4	<20	20	4000	<0.05	3939	7.53	1800	1040
		9-Sep-08	N	1771.75	1791.4	<20	14	4000	<0.05	3815	7.66	1620	834
		16-Sep-08	N	1771.75	1791.4	<20	17.775	4000	0.07	3731	7.64	1720	975
		23-Sep-08	N	1771.75	1791.4	<20	17	4000	<0.05	3950	7.83	1240	697
		30-Sep-08	N	1771.75	1791.4	<20	17	4000	<0.05	3780	7.83	1400	880
		7-Oct-08	N	1771.75	1791.4	<20	18	4000	<0.05	3775	7.84	1280	737
		14-Oct-08	N	1771.75	1791.4	<20	19	4000	<0.05	3885	7.33	1390	819
		21-Oct-08	N	1771.75	1791.4	<20	18	4000	<0.05	3924	7.34	1450	874
		28-Oct-08	N	1771.75	1791.4	<20	18	4000	<0.05	3798	7.54	1100	647
		4-Nov-08	N	1771.75	1791.4	<20	17	4000	<0.05	3871	7.23	1150	702
		11-Nov-08	N	1771.75	1791.4	<20	19	4000	<0.05	3816	7.69	1100	636
		18-Nov-08	N	1771.75	1791.4	<20	20	4000	<0.05	3669	7.67	1200	806
		25-Nov-08	N	1771.75	1791.4	<5	18	4000	<0.05	3825	7.58	968	234

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 3	2-Dec-08	N	1771.75	1791.4	<5	19	4000	<0.05	3734	7.59	1050	592
		9-Dec-08	N	1771.75	1791.4	<5	18	4000	<0.05	3721	7.56	1060	538
		16-Dec-08	N	1771.75	1791.4	<5	18	4000	<0.05	3793	7.76	906	459
		23-Dec-08	N	1771.75	1791.4	<5	21	4000	<0.05	3825	7.55	1170	678
		30-Dec-08	N	1771.75	1791.4	<5	18	4000	<0.05	3851	7.45	855	431
		6-Jan-09	N	1771.75	1791.4	<5	18	4000	<0.05	3889	7.46	1070	576
		13-Jan-09	N	1771.75	1791.4	<5	18	4000	<0.05	3768	7.49	944	508
		20-Jan-09	N	1771.75	1791.4	<5	19	4000	<0.05	3649	7.83	951	470
		27-Jan-09	N	1771.75	1791.4	<5	17	4000	<0.05	3929	7.59	856	476
		3-Feb-09	N	1771.75	1791.4	<5	20	4000	<0.05	3684	7.48	1130	670
		10-Feb-09	N	1771.75	1791.4	<5	19	4000	<0.05	3922	7.49	1020	554
		17-Feb-09	N	1771.75	1791.4	<5	19	4000	<0.05	3801	7.68	1100	565
	TEST 4	26-Aug-08	N	1855	1858	<20	58.065	1800	<0.05	960	7.7	4280	2390
		2-Sep-08	N	1855	1858	<20	28	1800	<0.05	1758	7.51	2200	1300
		9-Sep-08	N	1855	1858	<20	23	1800	<0.05	1717	7.45	1360	791
		16-Sep-08	N	1855	1858	<20	22.515	1800	<0.05	1717	7.75	1780	1260
		23-Sep-08	N	1855	1858	<20	14	1800	<0.05	1721	7.27	462	183
		30-Sep-08	N	1855	1858	<20	14	1800	<0.05	1528	7.27	605	295
		7-Oct-08	N	1855	1858	<20	21	1800	<0.05	1752	7.32	1020	572
		14-Oct-08	N	1855	1858	<20	23	1800	<0.05	1729	7.48	893	437
		21-Oct-08	N	1855	1858	<20	28	1800	<0.05	1673	7.99	980	507
		28-Oct-08	N	1855	1858	<20	28	1800	<0.05	1729	7.89	643	299
		4-Nov-08	N	1855	1858	<20	19	1800	<0.05	1740	7.82	368	142
	TEST 4S	11-Nov-08	N	1855	1858	<20	31	1800	<0.05	1205	7.81	1120	652
		18-Nov-08	N	1855	1858	<20	21	1800	<0.05	1758	7.89	342	151
		25-Nov-08	N	1855	1858	<5	14	1800	<0.05	1771	7.56	297	125
		2-Dec-08	N	1855	1858	<5	17	1800	<0.05	1776	7.52	265	111
		9-Dec-08	N	1855	1858	<5	11	1800	<0.05	1742	7.39	195	80
		16-Dec-08	N	1855	1858	<5	8	1800	<0.05	1736	7.37	202	82
		23-Dec-08	N	1855	1858	<5	9	1800	<0.05	1737	7.43	200	84
	TEST 5	26-Aug-08	FD	1855	1858	<20	68	1800	<0.05	1006	7.52	3850	2380

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 5	2-Sep-08	FD	1855	1858	<20	33	1800	<0.05	1523	7.58	2480	1490
		9-Sep-08	FD	1855	1858	<20	24	1800	<0.05	1582	7.55	1140	662
		16-Sep-08	FD	1855	1858	<20	22.515	1800	<0.05	1678	7.95	1020	560
		23-Sep-08	FD	1855	1858	<20	14	1800	<0.05	1576	7.05	1120	907
		30-Sep-08	FD	1855	1858	<20	14	1800	<0.05	1831	7.05	1050	576
		7-Oct-08	FD	1855	1858	<20	19	1800	<0.05	1691	7.38	755	360
		14-Oct-08	FD	1855	1858	<20	21	1800	<0.05	1706	7.69	802	407
		21-Oct-08	FD	1855	1858	<20	23	1800	<0.05	1765	7.84	645	323
		28-Oct-08	FD	1855	1858	<20	30	1800	<0.05	1681	8	1120	613
		4-Nov-08	FD	1855	1858	<20	17	1800	<0.05	1726	8.21	323	144
		11-Nov-08	FD	1855	1858	<20	17	1800	<0.05	1705	7.74	314	129
		18-Nov-08	FD	1855	1858	<20	25	1800	<0.05	1818	7.41	393	171
		25-Nov-08	FD	1855	1858	<5	21	1800	<0.05	1695	7.47	337	130
		2-Dec-08	FD	1855	1858	<5	17	1800	<0.05	1751	7.23	280	103
		9-Dec-08	FD	1855	1858	<5	21	1800	<0.05	1671	7.13	334	142
		16-Dec-08	FD	1855	1858	<5	24	1800	<0.05	1696	7.09	375	163
		23-Dec-08	FD	1855	1858	<5	23	1800	<0.05	1659	7.07	316	129
	TEST 6	26-Aug-08	N	1873	1876	<20	61.62	2667	<0.05	1275	7.16	2650	1720
		2-Sep-08	N	1873	1876	<20	47	2667	<0.05	2304	7.65	974	350
		9-Sep-08	N	1873	1876	<20	38	2667	<0.05	2711	7.84	414	119
		16-Sep-08	N	1873	1876	<20	75.84	2667	<0.05	2473	8.36	419	81
		23-Sep-08	N	1873	1876	<20	40	2667	<0.05	2582	7.75	199	46
		30-Sep-08	N	1873	1876	<20	40	2667	<0.05	2512	7.75	142	24
		7-Oct-08	N	1873	1876	<20	28	2667	<0.05	2496	8.01	124	26
		14-Oct-08	N	1873	1876	<20	24	2667	<0.05	2538	8.19	130	31
		21-Oct-08	N	1873	1876	<20	21	2667	<0.05	2581	7.29	270	94
		28-Oct-08	N	1873	1876	<20	27	2667	<0.05	2608	7.95	222	85
		4-Nov-08	N	1873	1876	<20	28	2667	<0.05	2425	7.94	129	28
		11-Nov-08	N	1873	1876	<20	24	2667	<0.05	2519	8.3	82	14
		18-Nov-08	N	1873	1876	<20	18	2667	<0.05	2540	8.39	93	17
		25-Nov-08	N	1873	1876	<5	21	2667	<0.05	2552	8.23	93	19

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 6	2-Dec-08	N	1873	1876	<5	19	2667	<0.05	2546	7.82	87	15
		9-Dec-08	N	1873	1876	<5	20	2667	<0.05	2592	7.79	100	23
		16-Dec-08	N	1873	1876	<5	25	2667	<0.05	2577	7.72	143	38
		23-Dec-08	N	1873	1876	<5	23	2667	<0.05	2580	7.88	105	23
		30-Dec-08	N	1873	1876	<5	23	2667	<0.05	2624	7.7	112	24
		6-Jan-09	N	1873	1876	<5	24	2667	<0.05	2586	7.84	110	27
		13-Jan-09	N	1873	1876	<5	23	2667	<0.05	2557	7.88	105	23
		20-Jan-09	N	1873	1876	<5	34	2667	<0.05	2537	8.09	206	55
		27-Jan-09	N	1873	1876	<5	26	2667	<0.05	2470	8.05	110	22
		3-Feb-09	N	1873	1876	<5	27	2667	<0.05	2468	7.81	128	26
		10-Feb-09	N	1873	1876	<5	28	2667	<0.05	2417	8.02	148	37
		17-Feb-09	N	1873	1876	<5	28	2667	<0.05	2533	7.85	133	29
		24-Feb-09	N	1873	1876	<5	27.255	2667	<0.05	2576	7.83	126	29
		3-Mar-09	N	1873	1876	<5	27.255	2667	<0.05	2477	7.92	126	29
		10-Mar-09	N	1873	1876	<5	28.44	2667	<0.05	2473	7.79	129	28
		17-Mar-09	N	1873	1876	<5	26.07	2667	<0.05	2450	7.75	137	37
		24-Mar-09	N	1873	1876	<5	28.44	2667	<0.05	2382	7.72	159	46
		31-Mar-09	N	1873	1876	<5	34.365	2667	0.09	2320	7.76	241	81
		7-Apr-09	N	1873	1876	<5	28.44	2667	<0.05	2593	7.82	152	39
		14-Apr-09	N	1873	1876	<5	26.07	2667	<0.05	2487	7.93	138	34
		21-Apr-09	N	1873	1876	<5	27.255	2667	<0.05	2430	7.99	161	45
		28-Apr-09	N	1873	1876	<5	22.515	2667	<0.05	2418	7.85	130	33
		5-May-09	N	1873	1876	<5	33.18	2667	<0.05	2460	7.92	181	47
		12-May-09	N	1873	1876	<5	33.18	2667	<0.05	2431	7.83	197	54
		19-May-09	N	1873	1876	<5	59.25	2667	<0.05	2151	8.26	588	231
		26-May-09	N	1873	1876	<5	30.16	2667	<0.05	2530	7.92	148	37
		2-Jun-09	N	1873	1876	<5	41.76	2667	<0.05	2374	7.89	253	74
		9-Jun-09	N	1873	1876	<5	25.52	2667	<0.05	2484	8.44	84	15
		16-Jun-09	N	1873	1876	<5	24.36	2667	<0.05	2484	7.84	126	30
		23-Jun-09	N	1873	1876	<5	37.12	2667	<0.05	2282	7.91	273	89
		30-Jun-09	N	1873	1876	<5	34.8	2667	<0.05	2272	7.77	310	105

--	Not requested.
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B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 6	7-Jul-09	N	1873	1876	<5	53.36	2667	<0.05	2033	7.88	643	265
		14-Jul-09	N	1873	1876	<5	56.84	2667	<0.05	2465	7.92	384	115
		21-Jul-09	N	1873	1876	<5	54.52	2667	<0.05	2164	8.03	462	152
		28-Jul-09	N	1873	1876	<5	54.52	2667	<0.05	2420	7.94	377	114
		4-Aug-09	N	1873	1876	<5	59.16	2667	<0.05	2331	7.98	354	103
		11-Aug-09	N	1873	1876	<5	37.12	2667	<0.05	2283	7.83	353	137
		18-Aug-09	N	1873	1876	<5	39.44	2667	<0.05	2539	7.73	184	41
		25-Aug-09	N	1873	1876	<5	40.6	2667	--	2431	7.89	287	88
	TEST 7	26-Aug-08	N	2041	2044	<20	123.24	1000	<0.05	712	7.84	3050	1680
		2-Sep-08	N	2041	2044	<20	33	1000	<0.05	947	7.66	1200	600
		9-Sep-08	N	2041	2044	<20	24	1000	<0.05	963	7.69	800	370
		16-Sep-08	N	2041	2044	<20	39.105	1000	<0.05	938	7.82	1250	673
		23-Sep-08	N	2041	2044	<20	38	1000	--	935	7.98	974	500
		30-Sep-08	N	2041	2044	<20	38	1000	<0.05	859	7.98	974	488
		7-Oct-08	N	2041	2044	6	28	1000	<0.05	809	7.56	998	497
		14-Oct-08	N	2041	2044	<20	26	1000	<0.05	915	7.31	563	212
		21-Oct-08	N	2041	2044	<20	30	1000	<0.05	879	7.37	622	284
		28-Oct-08	N	2041	2044	<20	28	1000	<0.05	911	7	569	316
		4-Nov-08	N	2041	2044	<20	26	1000	<0.05	914	7.47	518	210
		11-Nov-08	N	2041	2044	<20	31	1000	<0.05	821	7.85	554	246
		18-Nov-08	N	2041	2044	<20	36	1000	<0.05	861	7.86	1130	604
		25-Nov-08	N	2041	2044	<5	25	1000	<0.05	917	7.62	466	197
		2-Dec-08	N	2041	2044	<5	25	1000	<0.05	920	7.55	463	196
		9-Dec-08	N	2041	2044	<5	30	1000	<0.05	963	7.78	508	221
		16-Dec-08	N	2041	2044	<5	26	1000	<0.05	920	7.64	391	162
		23-Dec-08	N	2041	2044	<5	31	1000	<0.05	848	7.76	435	175
		30-Dec-08	N	2041	2044	<5	28	1000	<0.05	953	7.74	431	182
		6-Jan-09	N	2041	2044	<5	30	1000	<0.05	836	7.71	493	215
		13-Jan-09	N	2041	2044	<5	37	1000	<0.05	880	7.75	514	234
		20-Jan-09	N	2041	2044	<5	38	1000	<0.05	839	7.71	507	233
		27-Jan-09	N	2041	2044	<5	37	1000	<0.05	842	7.82	534	232

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	TEST 7	3-Feb-09	N	2041	2044	<5	38	1000	<0.05	844	7.79	532	223
		10-Feb-09	N	2041	2044	<5	38	1000	<0.05	875	7.75	499	203
		17-Feb-09	N	2041	2044	<5	39	1000	0.06	945	7.75	495	206
	TEST 8	26-Aug-08	FD	2041	2044	<20	176.565	2667	<0.05	1569	7.75	3300	2210
		2-Sep-08	FD	2041	2044	<20	36	2667	<0.05	2603	7.33	2440	1460
		9-Sep-08	FD	2041	2044	<20	43	2667	<0.05	2640	7.73	2150	1250
		16-Sep-08	FD	2041	2044	<20	36.735	2667	<0.05	2609	7.86	1750	1050
		23-Sep-08	FD	2041	2044	<20	39	2667	<0.05	2499	7.85	1590	932
		30-Sep-08	FD	2041	2044	<20	39	2667	<0.05	2487	7.85	1530	840
		7-Oct-08	FD	2041	2044	<20	37	2667	<0.05	2513	7.94	1490	1570
		14-Oct-08	FD	2041	2044	<20	33	2667	<0.05	2479	7.87	1280	639
		21-Oct-08	FD	2041	2044	<20	38	2667	<0.05	2562	7.86	1290	695
		28-Oct-08	FD	2041	2044	<20	38	2667	<0.05	2470	7.31	1290	829
		4-Nov-08	FD	2041	2044	<20	41	2667	<0.05	2401	7.89	1220	679
		11-Nov-08	FD	2041	2044	<20	40	2667	<0.05	2454	7.75	1270	710
		18-Nov-08	FD	2041	2044	<20	43	2667	<0.05	2369	7.87	1190	634
		25-Nov-08	FD	2041	2044	<5	39	2667	<0.05	2533	7.75	1010	505
		2-Dec-08	FD	2041	2044	<5	75	2667	<0.05	2685	7.76	1270	656
		9-Dec-08	FD	2041	2044	<5	38	2667	<0.05	2449	7.51	1090	564
		16-Dec-08	FD	2041	2044	<5	39	2667	<0.05	2545	7.75	934	433
		23-Dec-08	FD	2041	2044	<5	50	2667	<0.05	2472	7.89	930	451
		30-Dec-08	FD	2041	2044	<5	55	2667	<0.05	2486	7.78	966	478
		6-Jan-09	FD	2041	2044	<5	40	2667	<0.05	2565	7.75	1030	520
		13-Jan-09	FD	2041	2044	<5	37	2667	<0.05	2468	7.63	977	503
		20-Jan-09	FD	2041	2044	<5	38	2667	<0.05	2358	7.68	926	437
		27-Jan-09	FD	2041	2044	<5	38	2667	<0.05	2517	7.84	848	395
		3-Feb-09	FD	2041	2044	<5	38	2667	<0.05	2328	7.77	842	437
		10-Feb-09	FD	2041	2044	<5	40	2667	<0.05	2420	7.78	810	372
		17-Feb-09	FD	2041	2044	<5	43	2667	0.16	2413	7.78	798	359
RES-002A	TEST 10	26-Aug-08	N	1154	1156	282.1	5.925	1800	<0.05	950	4.68	2310	1310
		2-Sep-08	N	1154	1156	24	<20	1800	<0.05	1710	5.32	268	48

--	Not requested.
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MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 10	9-Sep-08	N	1154	1156	22	<20	1800	0.14	1807	5.25	144	57
		16-Sep-08	N	1154	1156	28.09	<20	1800	<0.05	1665	5.37	138	56
		23-Sep-08	N	1154	1156	15	<20	1800	<0.05	1731	5.26	58	20
		30-Sep-08	N	1154	1156	15	<20	1800	<0.05	1780	5.26	93	35
		7-Oct-08	N	1154	1156	29	<20	1800	<0.05	1753	5.2	89	27
		14-Oct-08	N	1154	1156	18	<20	1800	<0.05	1768	5.19	66	26
		21-Oct-08	N	1154	1156	14	<20	1800	<0.05	1739	5.41	53	19
		28-Oct-08	N	1154	1156	15	<20	1800	<0.05	1775	5.23	65	29
		4-Nov-08	N	1154	1156	20	<20	1800	0.08	1707	4.95	100	38
	TEST 10S	11-Nov-08	N	1154	1156	26	<20	1800	<0.05	1229	5.35	106	41
		18-Nov-08	N	1154	1156	10	<20	1800	<0.05	1729	5.22	41	14
		25-Nov-08	N	1154	1156	10	<5	1800	<0.05	1793	4.71	36	11
		2-Dec-08	N	1154	1156	10	<5	1800	<0.05	1712	5.26	38	<10
		9-Dec-08	N	1154	1156	10	<5	1800	<0.05	1758	5.02	41	14
		16-Dec-08	N	1154	1156	12	<5	1800	<0.05	1728	5.04	46	15
		23-Dec-08	N	1154	1156	<5	<5	1800	<0.05	1692	5.07	49	17
	TEST 11	26-Aug-08	N	1414.6	1417	438.81	<20	1800	<0.05	985	4.38	1930	1080
		2-Sep-08	N	1414.6	1417	145	<20	1800	<0.05	1849	4.69	505	215
		9-Sep-08	N	1414.6	1417	271	<20	1800	<0.05	1757	4.44	746	427
		16-Sep-08	N	1414.6	1417	359.36	<20	1800	<0.05	1673	4.61	841	516
		23-Sep-08	N	1414.6	1417	315	<20	1800	<0.05	1725	4.5	739	376
		30-Sep-08	N	1414.6	1417	315	<20	1800	<0.05	1697	4.5	618	342
		7-Oct-08	N	1414.6	1417	334	<20	1800	<0.05	1641	4.43	709	342
		14-Oct-08	N	1414.6	1417	179	<20	1800	<0.05	1713	4.45	437	216
		21-Oct-08	N	1414.6	1417	105	<20	1800	<0.05	1728	4.26	282	128
		28-Oct-08	N	1414.6	1417	193	<20	1800	<0.05	1715	4.4	521	250
		4-Nov-08	N	1414.6	1417	181	<20	1800	<0.05	1707	4.13	458	273
		11-Nov-08	N	1414.6	1417	76	<20	1800	1.41	1793	4.14	222	85
		18-Nov-08	N	1414.6	1417	59	<20	1800	0.42	1770	4.24	194	87
		25-Nov-08	N	1414.6	1417	60	<5	1800	0.17	1705	4.21	184	68
		2-Dec-08	N	1414.6	1417	128	<5	1800	<0.05	1717	4.16	337	143

--	Not requested.
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MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
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B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 11	9-Dec-08	N	1414.6	1417	96	<5	1800	<0.05	1646	4.08	279	121
		16-Dec-08	N	1414.6	1417	68	<5	1800	<0.05	1687	4.2	194	77
		23-Dec-08	N	1414.6	1417	81	<5	1800	0.51	1657	4.13	235	104
		30-Dec-08	N	1414.6	1417	91	<5	1800	0.11	1581	4.1	249	105
		6-Jan-09	N	1414.6	1417	113	<5	1800	0.35	1655	4.08	306	137
		13-Jan-09	N	1414.6	1417	152	<5	1800	0.75	1437	4.03	387	186
		20-Jan-09	N	1414.6	1417	153	<5	1800	0.82	1618	3.9	395	169
		27-Jan-09	N	1414.6	1417	193	<5	1800	0.86	1669	3.92	481	239
		3-Feb-09	N	1414.6	1417	148	<5	1800	3.05	1622	3.91	390	171
		10-Feb-09	N	1414.6	1417	137	<5	1800	3.74	1487	3.94	366	158
		17-Feb-09	N	1414.6	1417	157	<5	1800	4.8	1647	3.88	433	193
	TEST 12	26-Aug-08	N	1454	1457	227.27	8.295	1800	<0.05	1065	5.1	1470	773
		2-Sep-08	N	1454	1457	<20	12	1800	<0.05	1718	6.6	155	57
		9-Sep-08	N	1454	1457	<20	<20	1800	<0.05	1739	6.32	73	19
		16-Sep-08	N	1454	1457	8.205	4.74	1800	<0.05	1724	6.84	54	16
		23-Sep-08	N	1454	1457	6	<20	1800	<0.05	1698	6.42	60	18
		30-Sep-08	N	1454	1457	6	<20	1800	<0.05	1694	6.42	49	14
		7-Oct-08	N	1454	1457	6	9	1800	<0.05	1700	7.22	41	10
		14-Oct-08	N	1454	1457	<20	<20	1800	<0.05	1689	6.71	30	<10
		21-Oct-08	N	1454	1457	<20	<20	1800	<0.05	1711	6.67	21	<10
		28-Oct-08	N	1454	1457	<20	<20	1800	<0.05	1682	7.61	22	<10
		4-Nov-08	N	1454	1457	<20	<20	1800	<0.05	1728	6.2	23	<10
		11-Nov-08	N	1454	1457	<20	<20	1800	<0.05	1682	6.43	18	<10
		18-Nov-08	N	1454	1457	<20	<20	1800	<0.05	1614	5.87	16	11
		25-Nov-08	N	1454	1457	<5	<5	1800	<0.05	1543	5.39	17	<10
		2-Dec-08	N	1454	1457	<5	6	1800	<0.05	1336	6.14	15	<10
		9-Dec-08	N	1454	1457	<5	<5	1800	<0.05	1607	5.67	15	<10
		16-Dec-08	N	1454	1457	8	<5	1800	<0.05	1703	5.84	13	<10
		23-Dec-08	N	1454	1457	8	<5	1800	<0.05	1688	5.93	13	<10
		30-Dec-08	N	1454	1457	6	6	1800	<0.05	1675	6.46	14	<10
		6-Jan-09	N	1454	1457	<5	6	1800	<0.05	1597	6.24	14	<10

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MLS	milliliters
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B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 12	13-Jan-09	N	1454	1457	5	7	1800	<0.05	1672	6.3	14	<10
		20-Jan-09	N	1454	1457	<5	<5	1800	<0.05	1594	6.3	11	<10
		27-Jan-09	N	1454	1457	5	<5	1800	<0.05	1684	6.23	12	<10
		3-Feb-09	N	1454	1457	<5	<5	1800	<0.05	1595	6.53	12	<10
		10-Feb-09	N	1454	1457	5	<5	1800	<0.05	1595	6.4	12	<10
		17-Feb-09	N	1454	1457	<5	<5	1800	<0.05	1645	6.15	16	<10
		24-Feb-09	N	1454	1457	7.385	<5	1800	<0.05	1710	5.91	18	<10
		3-Mar-09	N	1454	1457	7.385	<5	1800	<0.05	1629	6.01	15	<10
		10-Mar-09	N	1454	1457	7.45	<5	1800	<0.05	1669	5.77	17	<10
		17-Mar-09	N	1454	1457	9.69	<5	1800	<0.05	1657	5.71	18	<10
		24-Mar-09	N	1454	1457	10.81	<5	1800	<0.05	1653	5.83	17	<10
		31-Mar-09	N	1454	1457	7.385	<5	1800	<0.05	1582	5.68	17	<10
		7-Apr-09	N	1454	1457	6.265	<5	1800	<0.05	1684	5.74	21	<10
		14-Apr-09	N	1454	1457	9.625	<5	1800	<0.05	1685	5.71	19	<10
		21-Apr-09	N	1454	1457	10.745	<5	1800	<0.05	1691	5.73	24	<10
		28-Apr-09	N	1454	1457	6.265	<5	1800	<0.05	1759	5.66	24	<10
		5-May-09	N	1454	1457	9.625	<5	1800	<0.05	1645	5.52	27	<10
		12-May-09	N	1454	1457	12.985	<5	1800	<0.05	1635	5.51	39	15
		19-May-09	N	1454	1457	11.93	<5	1800	<0.05	1562	5.61	34	11
		26-May-09	N	1454	1457	19.88	<5	1800	<0.05	1729	5.53	61	24
		2-Jun-09	N	1454	1457	25.48	<5	1800	<0.05	1641	5.48	82	32
		9-Jun-09	N	1454	1457	48.96	<5	1800	<0.05	1688	5.48	151	81
		16-Jun-09	N	1454	1457	88.2	<5	1800	<0.05	1624	5.37	224	106
		23-Jun-09	N	1454	1457	154.32	<5	1800	<0.05	1590	5.19	382	215
		30-Jun-09	N	1454	1457	274.16	<5	1800	<0.05	1656	5.03	561	310
		7-Jul-09	N	1454	1457	422	<5	1800	<0.05	1563	4.97	949	577
		14-Jul-09	N	1454	1457	587.76	<5	1800	<0.05	1545	4.85	1200	736
		21-Jul-09	N	1454	1457	646.96	<5	1800	<0.05	1451	4.75	1350	908
		28-Jul-09	N	1454	1457	526	<5	1800	<0.05	1580	4.79	1090	642
		4-Aug-09	N	1454	1457	485.68	<5	1800	<0.05	1633	4.85	1040	615
		11-Aug-09	N	1454	1457	584.16	<5	1800	<0.05	1621	4.77	1170	686

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V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 12	18-Aug-09	N	1454	1457	664.8	<5	1800	<0.05	1478	4.7	1370	865
		25-Aug-09	N	1454	1457	685.04	<5	1800	--	1646	4.72	1370	875
		1-Sep-09	N	1454	1457	698	<5	1800	<0.05	1533	4.57	1320	890
		8-Sep-09	N	1454	1457	870.88	<5	1800	0.09	1403	4.66	1710	1160
		15-Sep-09	N	1454	1457	805.92	<5	1800	<0.05	1271	4.8	1420	987
		22-Sep-09	N	1454	1457	727.6	<5	1800	0	1534	4.55	1320	885
		29-Sep-09	N	1454	1457	508	<5	1800	<1	1488	5.01	945	652
		6-Oct-09	N	1454	1457	626.88	<5	1800	<0.05	1534	4.69	1130	745
		13-Oct-09	N	1454	1457	380.48	<5	1800	<0.05	1579	4.84	924	531
		20-Oct-09	N	1454	1457	355.76	<5	1800	<0.05	1568	4.89	829	473
		27-Oct-09	N	1454	1457	301.92	<2.5	1800	<0.025	1614	4.99	713	400
		3-Nov-09	N	1454	1457	301.84	<2.5	1800	<0.025	1665	--	750	412
		10-Nov-09	N	1454	1457	366.96	<2.5	1800	<0.025	1599	4.96	882	492
		17-Nov-09	N	1454	1457	443.12	<5	1800	<0.05	1419	4.9	989	604
		24-Nov-09	N	1454	1457	315	<5	--	<0.05	1616	5.1	740	402
		1-Dec-09	N	1454	1457	346.8	<5	1800	<0.05	1638	4.97	785	429
		8-Dec-09	N	1454	1457	351.28	<5	1800	<0.05	1623	4.91	787	441
		15-Dec-09	N	1454	1457	346.8	<5	1800	<0.05	1584	4.98	794	455
		22-Dec-09	N	1454	1457	308.8	<5	1800	<0.05	1598	5.06	746	424
		29-Dec-09	N	1454	1457	378.384	<5	--	<0.05	1601	4.95	837	510
		5-Jan-10	N	1454	1457	362.4	<5	--	<0.05	1662	5.07	815	448
		12-Jan-10	N	1454	1457	328.96	<5	--	<0.05	1683	4.92	742	376
		19-Jan-10	N	1454	1457	322.24	<5	--	<0.05	1639	4.9	707	372
		26-Jan-10	N	1454	1457	346.96	<5	--	<0.05	1659	4.95	770	431
	TEST 13	26-Aug-08	FD	1454	1457	224.31	7.11	1800	<0.05	1091	5.14	1420	808
		2-Sep-08	FD	1454	1457	<20	5	1800	<0.05	1573	6.04	125	35
		9-Sep-08	FD	1454	1457	<20	<20	1800	<0.05	1654	6.38	74	22
		16-Sep-08	FD	1454	1457	<20	<20	1800	<0.05	1317	6.67	61	18
		23-Sep-08	FD	1454	1457	<20	<20	1800	<0.05	1660	6.3	34	<10
		30-Sep-08	FD	1454	1457	<20	<20	1800	<0.05	1447	6.3	64	19
		7-Oct-08	FD	1454	1457	<20	<20	1800	<0.05	1530	6.82	44	12

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 13	14-Oct-08	FD	1454	1457	<20	6	1800	<0.05	1415	7.06	26	<10
		21-Oct-08	FD	1454	1457	<20	<20	1800	<0.05	1505	6.8	26	<10
		28-Oct-08	FD	1454	1457	<20	6	1800	<0.05	1531	7.33	20	<10
		4-Nov-08	FD	1454	1457	<20	<20	1800	<0.05	1659	7.05	14	<10
		11-Nov-08	FD	1454	1457	<20	<20	1800	<0.05	1648	6.58	15	<10
		18-Nov-08	FD	1454	1457	<20	<20	1800	<0.05	1368	5.96	16	<10
		25-Nov-08	FD	1454	1457	<5	<5	1800	<0.05	1570	6.69	15	<10
		2-Dec-08	FD	1454	1457	<5	7	1800	<0.05	1526	6.57	16	<10
		9-Dec-08	FD	1454	1457	<5	<5	1800	<0.05	1556	6.61	15	<10
		16-Dec-08	FD	1454	1457	20	<5	1800	<0.05	1471	5.98	11	<10
		23-Dec-08	FD	1454	1457	<5	<5	1800	<0.05	1619	6.35	12	<10
		30-Dec-08	FD	1454	1457	<5	6	1800	<0.05	1343	6.47	17	<10
		6-Jan-09	FD	1454	1457	5	<5	1800	<0.05	1486	6.5	17	<10
		13-Jan-09	FD	1454	1457	<5	7	1800	<0.05	1316	6.29	16	<10
		20-Jan-09	FD	1454	1457	<5	7	1800	<0.05	1372	6.47	18	<10
		27-Jan-09	FD	1454	1457	5	6	1800	<0.05	1339	6.44	22	<10
		3-Feb-09	FD	1454	1457	<5	<5	1800	<0.05	1600	6.56	12	<10
		10-Feb-09	FD	1454	1457	<5	<5	1800	<0.05	1612	6.16	12	<10
		17-Feb-09	FD	1454	1457	5	6	1800	<0.05	1553	6.59	18	<10
	TEST 14	26-Aug-08	N	1927	1930	<20	58.065	3333	<0.05	1864	7.01	4840	1590
		2-Sep-08	N	1927	1930	<20	24	3333	<0.05	3207	7.25	2860	1820
		9-Sep-08	N	1927	1930	<20	17	3333	<0.05	3240	7.27	2640	1710
		16-Sep-08	N	1927	1930	<20	13.035	3333	<0.05	3215	7.22	2590	1870
		23-Sep-08	N	1927	1930	7	17	3333	<0.05	3253	7.44	2370	1600
		30-Sep-08	N	1927	1930	7	17	3333	<0.05	3251	7.44	2410	1530
		7-Oct-08	N	1927	1930	8	9	3333	<0.05	3220	6.75	2260	1510
		14-Oct-08	N	1927	1930	9	6	3333	<0.05	3179	6.44	2150	1450
		21-Oct-08	N	1927	1930	9	7	3333	<0.05	3220	6.37	2170	1450
		28-Oct-08	N	1927	1930	9	<20	3333	<0.05	3214	6.15	2000	1220
		4-Nov-08	N	1927	1930	11	<20	3333	<0.05	3214	6.26	2130	1360
		11-Nov-08	N	1927	1930	<20	6	3333	<0.05	3236	6.11	2030	1340

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 14	18-Nov-08	N	1927	1930	<20	<20	3333	<0.05	3058	6.14	2050	1340
		25-Nov-08	N	1927	1930	14	6	3333	<0.05	3218	6.05	2070	1330
		2-Dec-08	N	1927	1930	22	6	3333	<0.05	3241	6.16	2070	1110
		9-Dec-08	N	1927	1930	20	6	3333	<0.05	3254	5.95	2020	1350
		16-Dec-08	N	1927	1930	20	<5	3333	<0.05	3268	5.98	1940	1290
		23-Dec-08	N	1927	1930	22	6	3333	<0.05	3279	5.91	2030	1380
		30-Dec-08	N	1927	1930	19	<5	3333	<0.05	3287	5.95	1900	1100
		6-Jan-09	N	1927	1930	22	<5	3333	<0.05	3299	5.84	1960	1260
		13-Jan-09	N	1927	1930	22	<5	3333	<0.05	3260	5.88	1820	1150
		20-Jan-09	N	1927	1930	24	<5	3333	<0.05	3192	5.99	1910	1130
		27-Jan-09	N	1927	1930	21	<5	3333	<0.05	3271	5.95	1700	1080
		3-Feb-09	N	1927	1930	23	<5	3333	<0.05	3194	5.88	1770	1000
		10-Feb-09	N	1927	1930	23	<5	3333	<0.05	3293	5.85	1710	1040
		17-Feb-09	N	1927	1930	28	<5	3333	<0.05	3247	5.8	1770	1130
		24-Feb-09	N	1927	1930	34.265	<5	3333	<0.05	3287	5.72	1850	1080
		3-Mar-09	N	1927	1930	29.785	<5	3333	<0.05	3174	5.67	1730	1090
		10-Mar-09	N	1927	1930	29.85	<5	3333	<0.05	3215	5.62	1740	1090
		17-Mar-09	N	1927	1930	32.025	<5	3333	<0.05	3245	5.61	1800	1120
		24-Mar-09	N	1927	1930	32.025	<5	3333	<0.05	3115	5.66	1700	1180
		31-Mar-09	N	1927	1930	33.21	<5	3333	<0.05	3024	5.6	1750	1090
		7-Apr-09	N	1927	1930	33.145	<5	3333	<0.05	3277	5.68	1810	1250
		14-Apr-09	N	1927	1930	33.145	<5	3333	<0.05	3120	5.63	1630	1010
		21-Apr-09	N	1927	1930	35.385	<5	3333	<0.05	3171	5.79	1640	1070
		28-Apr-09	N	1927	1930	34.265	<5	3333	<0.05	3069	5.57	1630	999
		5-May-09	N	1927	1930	33.145	<5	3333	<0.05	3226	5.76	1820	1080
		12-May-09	N	1927	1930	33.145	<5	3333	<0.05	3203	5.7	1710	1120
		19-May-09	N	1927	1930	34.265	<5	3333	0.2	3030	5.53	1790	1080
		26-May-09	N	1927	1930	36.68	<5	3333	<0.05	3097	5.68	1710	1100
		2-Jun-09	N	1927	1930	35.56	<5	3333	<0.05	3262	5.58	1710	1060
		9-Jun-09	N	1927	1930	33.28	<5	3333	<0.05	3121	5.94	1630	1020
		16-Jun-09	N	1927	1930	37.8	<5	3333	<0.05	3215	5.95	1730	1120

--	Not requested.
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UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
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B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	TEST 14	23-Jun-09	N	1927	1930	32.2	5.8	3333	<0.05	3155	5.96	1660	1080
		30-Jun-09	N	1927	1930	43.32	5.8	3333	<0.05	3119	5.91	1540	921
		7-Jul-09	N	1927	1930	51.2	<5	3333	<0.05	2997	5.83	1680	1070
		14-Jul-09	N	1927	1930	51.24	<5	3333	<0.05	3182	5.71	1600	996
		21-Jul-09	N	1927	1930	61.12	8.12	3333	<0.05	3071	5.74	1790	1080
		28-Jul-09	N	1927	1930	62.4	<5	3333	0.05	3029	5.68	1710	1180
		4-Aug-09	N	1927	1930	67.96	<5	3333	<0.05	3110	5.72	1670	1060
		11-Aug-09	N	1927	1930	74.72	<5	3333	<0.05	3151	5.66	1720	1080
		18-Aug-09	N	1927	1930	63.52	<5	3333	0.06	3150	5.66	1670	1060
		25-Aug-09	N	1927	1930	64.48	<5	3333	--	3156	5.77	1860	807
	TEST 9	26-Aug-08	N	888	891	<20	16.59	2667	<0.05	1403	7.78	37	<10
		2-Sep-08	N	888	891	<20	30	2667	<0.05	2231	7.57	138	24
		9-Sep-08	N	888	891	<20	19	2667	<0.05	2651	7.55	80	19
		16-Sep-08	N	888	891	<20	9.48	2667	<0.05	2562	7.29	31	<10
		23-Sep-08	N	888	891	<20	20	2667	<0.05	2422	7.78	56	<10
		30-Sep-08	N	888	891	<20	20	2667	<0.05	2695	7.78	24	<10
		7-Oct-08	N	888	891	<20	<20	2667	<0.05	2519	8.13	12	<10
		14-Oct-08	N	888	891	<20	<20	2667	<0.05	2615	8.19	15	<10
		21-Oct-08	N	888	891	<20	9	2667	<0.05	2512	7.93	28	<10
		28-Oct-08	N	888	891	<20	9	2667	<0.05	2495	7.93	30	<10
		4-Nov-08	N	888	891	<20	19	2667	<0.05	2434	7.84	54	<10
	TEST 9S	11-Nov-08	N	888	891	<20	47	2667	<0.05	2322	7.75	132	11
		18-Nov-08	N	888	891	<20	7	2667	<0.05	2414	7.12	21	<10
		25-Nov-08	N	888	891	<5	<5	2667	<0.05	2621	7	14	<10
		2-Dec-08	N	888	891	<5	<5	2667	<0.05	2419	6.73	18	<10
		9-Dec-08	N	888	891	<5	11	2667	<0.05	2581	6.87	10	<10
		16-Dec-08	N	888	891	<5	<5	2667	<0.05	2564	6.99	12	<10
		23-Dec-08	N	888	891	<5	6	2667	<0.05	2569	6.59	11	<10
RES-005I	TEST 15	26-Aug-08	N	1317.28	1320.28	<20	50.955	4000	<0.05	2566	8.25	574	236
		2-Sep-08	N	1317.28	1320.28	<20	36	4000	<0.05	3862	8.79	592	194
		9-Sep-08	N	1317.28	1320.28	<20	36	4000	<0.05	3893	8.85	581	200

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 15	16-Sep-08	N	1317.28	1320.28	<20	30.81	4000	<0.05	3841	8.72	462	149
		23-Sep-08	N	1317.28	1320.28	<20	28	4000	<0.05	3875	8.77	385	137
		30-Sep-08	N	1317.28	1320.28	<20	28	4000	<0.05	3872	8.77	374	129
		7-Oct-08	N	1317.28	1320.28	<20	30	4000	<0.05	3749	9.01	370	132
		14-Oct-08	N	1317.28	1320.28	<20	28	4000	<0.05	3888	8.14	279	88
		21-Oct-08	N	1317.28	1320.28	<20	28	4000	<0.05	3812	8.3	255	80
		28-Oct-08	N	1317.28	1320.28	<20	30	4000	<0.05	3818	7.71	223	70
		4-Nov-08	N	1317.28	1320.28	<20	26	4000	<0.05	3783	8.81	219	69
		11-Nov-08	N	1317.28	1320.28	<20	31	4000	<0.05	3825	8.64	197	58
		18-Nov-08	N	1317.28	1320.28	<20	28	4000	<0.05	3765	8.59	202	55
		25-Nov-08	N	1317.28	1320.28	<5	26	4000	<0.05	3838	8.7	150	46
		2-Dec-08	N	1317.28	1320.28	<5	27	4000	<0.05	3759	7.99	165	42
		9-Dec-08	N	1317.28	1320.28	<5	21	4000	<0.05	3739	8.44	135	36
		16-Dec-08	N	1317.28	1320.28	<5	26	4000	<0.05	3828	8.5	111	24
		23-Dec-08	N	1317.28	1320.28	<5	27	4000	<0.05	3773	8.11	120	26
	TEST 16	26-Aug-08	N	1428.18	1431.18	<20	132.72	2000	0.09	1065	8.04	1340	376
		2-Sep-08	N	1428.18	1431.18	<20	9	2000	<0.05	2055	7.27	141	12
		9-Sep-08	N	1428.18	1431.18	<20	8	2000	<0.05	1936	7.19	35	12
		16-Sep-08	N	1428.18	1431.18	7.19	<20	2000	0.06	1809	7.52	16	<10
		23-Sep-08	N	1428.18	1431.18	<20	<20	2000	<0.05	1885	7.14	6	<10
		30-Sep-08	N	1428.18	1431.18	<20	<20	2000	<0.05	1897	7.14	4	<10
		7-Oct-08	N	1428.18	1431.18	10	<20	2000	0.05	1793	5.64	4	<10
		14-Oct-08	N	1428.18	1431.18	<20	<20	2000	<0.05	1826	6.11	3	<10
		21-Oct-08	N	1428.18	1431.18	<20	7	2000	0.08	1812	6.98	46	<10
		28-Oct-08	N	1428.18	1431.18	<20	<20	2000	<0.05	1879	7.29	19	<10
		4-Nov-08	N	1428.18	1431.18	<20	<20	2000	<0.05	1869	5.74	4	<10
	TEST 16S	11-Nov-08	N	1428.18	1431.18	<20	6	2000	<0.05	1631	7.41	28	<10
		18-Nov-08	N	1428.18	1431.18	<20	<20	2000	<0.05	1914	7.19	10	<10
		25-Nov-08	N	1428.18	1431.18	<5	<5	2000	<0.05	1891	7.49	6	<10
		2-Dec-08	N	1428.18	1431.18	<5	<5	2000	<0.05	1864	7.23	8	<10
		9-Dec-08	N	1428.18	1431.18	<5	<5	2000	<0.05	1910	7.32	7	<10

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 16S	16-Dec-08	N	1428.18	1431.18	<5	<5	2000	<0.05	1913	7.08	7	<10
		23-Dec-08	N	1428.18	1431.18	<5	<5	2000	<0.05	1924	7.17	6	<10
	TEST 17	26-Aug-08	FD	1428.18	1431.18	<20	106.65	2000	0.07	1184	7.93	1180	406
		2-Sep-08	FD	1428.18	1431.18	<20	18	2000	<0.05	2163	7.51	119	<10
		9-Sep-08	FD	1428.18	1431.18	<20	9	2000	<0.05	1867	7.08	39	<10
		16-Sep-08	FD	1428.18	1431.18	<20	9.48	2000	0.08	1831	7.04	38	<10
		23-Sep-08	FD	1428.18	1431.18	5	5	2000	0.05	1842	7.83	18	<10
		30-Sep-08	FD	1428.18	1431.18	5	5	2000	0.07	1831	7.83	35	<10
		7-Oct-08	FD	1428.18	1431.18	11	14	2000	<0.05	1832	7.97	30	10
		14-Oct-08	FD	1428.18	1431.18	<20	6	2000	<0.05	1876	7.34	22	<10
		21-Oct-08	FD	1428.18	1431.18	<20	7	2000	<0.05	1854	7.9	16	<10
		28-Oct-08	FD	1428.18	1431.18	<20	6	2000	<0.05	1818	7.01	15	<10
		4-Nov-08	FD	1428.18	1431.18	<20	<20	2000	<0.05	1867	7.24	13	<10
	TEST 17S	11-Nov-08	FD	1428.18	1431.18	<20	6	2000	0.06	1678	7.79	18	<10
		18-Nov-08	FD	1428.18	1431.18	<20	<20	2000	<0.05	1885	7.32	9	<10
		25-Nov-08	FD	1428.18	1431.18	<5	<5	2000	<0.05	1601	7.82	9	<10
		2-Dec-08	FD	1428.18	1431.18	<5	<5	2000	<0.05	1826	7.34	10	<110
		9-Dec-08	FD	1428.18	1431.18	<5	6	2000	<0.05	1842	7.53	9	<10
		16-Dec-08	FD	1428.18	1431.18	<5	<5	2000	<0.05	1738	6.86	7	<10
		23-Dec-08	FD	1428.18	1431.18	<5	<5	2000	<0.05	1913	7.23	6	<10
	TEST 18	26-Aug-08	N	1499	1502	<20	4.74	2000	<0.05	1292	7.18	18	<10
		2-Sep-08	N	1499	1502	<20	31	2000	<0.05	1568	7.5	402	44
		9-Sep-08	N	1499	1502	<20	12	2000	<0.05	2010	7.19	74	<10
		16-Sep-08	N	1499	1502	<20	8.295	2000	<0.05	1800	7.21	70	<10
		23-Sep-08	N	1499	1502	<20	11	2000	<0.05	1791	7.48	35	<10
		30-Sep-08	N	1499	1502	<20	11	2000	<0.05	1847	7.48	69	<10
		7-Oct-08	N	1499	1502	8	12	2000	<0.05	1842	8.09	44	<10
		14-Oct-08	N	1499	1502	<20	9	2000	<0.05	1904	7.83	34	<10
		21-Oct-08	N	1499	1502	<20	11	2000	<0.05	1891	8.16	40	<10
		28-Oct-08	N	1499	1502	<20	11	2000	<0.05	1939	7.89	28	<10
		4-Nov-08	N	1499	1502	<20	8	2000	<0.05	1893	7.53	21	<10

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 18S	11-Nov-08	N	1499	1502	<20	13	2000	<0.05	1654	7.42	43	<10
		18-Nov-08	N	1499	1502	<20	7	2000	<0.05	1877	7.01	14	<10
		25-Nov-08	N	1499	1502	<5	<5	2000	<0.05	1980	6.71	15	<10
		2-Dec-08	N	1499	1502	<5	<5	2000	<0.05	1808	7.18	23	<10
		9-Dec-08	N	1499	1502	<5	<5	2000	<0.05	1882	6.63	14	<10
		16-Dec-08	N	1499	1502	<5	<5	2000	<0.05	1952	6.7	12	<10
		23-Dec-08	N	1499	1502	<5	<5	2000	<0.05	1936	6.61	9	<10
	TEST 19	26-Aug-08	N	1586.46	1589.46	<20	23.7	2000	<0.05	1208	7.23	488	166
		2-Sep-08	N	1586.46	1589.46	<20	19	2000	0.09	1632	7.4	217	43
		9-Sep-08	N	1586.46	1589.46	<20	9	2000	<0.05	1799	7.32	90	16
		16-Sep-08	N	1586.46	1589.46	<20	5.925	2000	<0.05	1701	7.71	54	<10
		23-Sep-08	N	1586.46	1589.46	<20	<20	2000	<0.05	1895	7.36	39	<10
		30-Sep-08	N	1586.46	1589.46	<20	<20	2000	<0.05	1858	7.36	98	22
		7-Oct-08	N	1586.46	1589.46	<20	9	2000	<0.05	1912	7.86	38	<10
		14-Oct-08	N	1586.46	1589.46	<20	6	2000	<0.05	1936	7.48	20	<10
		21-Oct-08	N	1586.46	1589.46	<20	7	2000	0.08	1900	6.71	30	<10
		28-Oct-08	N	1586.46	1589.46	<20	<20	2000	0.17	1924	7.74	16	<10
		4-Nov-08	N	1586.46	1589.46	<20	<20	2000	0.11	1893	7.37	22	<10
	TEST 19S	11-Nov-08	N	1586.46	1589.46	<20	11	2000	<0.05	1723	7.52	49	<10
		18-Nov-08	N	1586.46	1589.46	<20	<20	2000	<0.05	1856	7.39	14	<10
		25-Nov-08	N	1586.46	1589.46	<5	<5	2000	0.05	1945	4.72	21	<10
		2-Dec-08	N	1586.46	1589.46	<5	<5	2000	0.1	1887	7.07	11	<10
		9-Dec-08	N	1586.46	1589.46	<5	<5	2000	0.1	1888	6.93	8	<10
		16-Dec-08	N	1586.46	1589.46	<5	<5	2000	<0.05	1730	7.15	9	<10
		23-Dec-08	N	1586.46	1589.46	<5	<5	2000	<0.05	1835	6.36	10	<10
	TEST 20	26-Aug-08	N	1632.56	1635.56	<20	24.885	1800	<0.05	972	6.68	2290	1000
		2-Sep-08	N	1632.56	1635.56	<20	5	1800	<0.05	1867	6.7	162	45
		9-Sep-08	N	1632.56	1635.56	<20	<20	1800	<0.05	1444	6.09	128	38
		16-Sep-08	N	1632.56	1635.56	4.82	<20	1800	<0.05	1396	6.6	169	44
		23-Sep-08	N	1632.56	1635.56	10	<20	1800	<0.05	1600	4.78	64	18
		30-Sep-08	N	1632.56	1635.56	10	<20	1800	0.07	1689	4.78	94	30

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 20	7-Oct-08	N	1632.56	1635.56	10	<20	1800	<0.05	1708	5.54	63	20
		14-Oct-08	N	1632.56	1635.56	11	<20	1800	<0.05	1665	5.6	89	30
		21-Oct-08	N	1632.56	1635.56	12	<20	1800	<0.05	1674	5.59	122	43
		28-Oct-08	N	1632.56	1635.56	13	<20	1800	<0.05	1734	5.54	107	39
		4-Nov-08	N	1632.56	1635.56	13	<20	1800	<0.05	1751	5.13	104	37
	TEST 20S	11-Nov-08	N	1632.56	1635.56	19	<20	1800	<0.05	1152	5.92	209	80
		18-Nov-08	N	1632.56	1635.56	9	<20	1800	<0.05	1716	5.62	62	19
		25-Nov-08	N	1632.56	1635.56	11	<5	1800	<0.05	1799	4.64	64	22
		2-Dec-08	N	1632.56	1635.56	13	<5	1800	<0.05	1728	5.3	62	17
		9-Dec-08	N	1632.56	1635.56	11	<5	1800	<0.05	1745	5.24	55	19
		16-Dec-08	N	1632.56	1635.56	11	<5	1800	<0.05	1730	5.44	57	19
		23-Dec-08	N	1632.56	1635.56	25	<5	1800	<0.05	1695	5.57	61	21
		30-Dec-08	N	1632.56	1635.56	19	<5	1800	<0.05	1768	5.08	81	30
		6-Jan-09	N	1632.56	1635.56	20	<5	1800	0.13	1695	5.14	85	30
		13-Jan-09	N	1632.56	1635.56	22	<5	1800	0.07	1754	5.06	85	32
		20-Jan-09	N	1632.56	1635.56	26	<5	1800	0.12	1596	5.01	98	35
		27-Jan-09	N	1632.56	1635.56	23	<5	1800	0.11	1692	4.96	90	33
		3-Feb-09	N	1632.56	1635.56	29	<5	1800	0.16	1615	4.94	106	40
		10-Feb-09	N	1632.56	1635.56	26	<5	1800	0.11	1714	4.94	98	36
		17-Feb-09	N	1632.56	1635.56	29	<5	1800	0.2	1735	4.92	110	43
	TEST 21	26-Aug-08	N	1652	1654.93	36.38	7.11	1500	<0.05	1130	5.86	1070	436
		2-Sep-08	N	1652	1654.93	--	--	--	--	--	--	--	--
		9-Sep-08	N	1652	1654.93	7	<20	1500	0.06	1461	5.73	54	14
		16-Sep-08	N	1652	1654.93	26.99	<20	1500	<0.05	1387	5.37	249	81
		23-Sep-08	N	1652	1654.93	37	<20	1500	<0.05	1423	5.18	182	68
		30-Sep-08	N	1652	1654.93	37	<20	1500	<0.05	1345	5.18	442	210
		7-Oct-08	N	1652	1654.93	140	<20	1500	<0.05	1375	4.99	358	161
		14-Oct-08	N	1652	1654.93	201	<20	1500	<0.05	1328	4.85	563	293
		21-Oct-08	N	1652	1654.93	54	<20	1500	<0.05	1410	4.78	149	61
		28-Oct-08	N	1652	1654.93	113	<20	1500	<0.05	1369	4.77	313	245
		4-Nov-08	N	1652	1654.93	171	<20	1500	<0.05	1333	4.49	453	219

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B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 21	11-Nov-08	N	1652	1654.93	108	<20	1500	<0.05	1286	4.43	296	129
		18-Nov-08	N	1652	1654.93	130	<20	1500	0.14	1332	4.43	353	159
		25-Nov-08	N	1652	1654.93	25	<5	1500	0.46	1450	4.47	79	33
		2-Dec-08	N	1652	1654.93	51	<5	1500	0.27	1452	4.46	151	55
		9-Dec-08	N	1652	1654.93	28	<5	1500	0.24	1469	4.35	89	29
		16-Dec-08	N	1652	1654.93	103	<5	1500	0.12	1324	4.21	275	122
		23-Dec-08	N	1652	1654.93	84	<5	1500	0.07	1346	4.25	232	96
		30-Dec-08	N	1652	1654.93	85	<5	1500	0.41	1419	4.15	231	96
		6-Jan-09	N	1652	1654.93	112	<5	1500	0.65	1432	4.11	298	134
		13-Jan-09	N	1652	1654.93	106	<5	1500	0.87	1283	4.04	270	128
		20-Jan-09	N	1652	1654.93	106	<5	1500	0.83	1309	3.98	289	133
		27-Jan-09	N	1652	1654.93	112	<5	1500	3.31	1264	4.01	289	119
		3-Feb-09	N	1652	1654.93	86	<5	1500	3.16	1334	4.02	240	91
		10-Feb-09	N	1652	1654.93	108	<5	1500	3.6	1293	3.98	281	114
		17-Feb-09	N	1652	1654.93	102	<5	1500	3.63	1313	4	269	115
		24-Feb-09	N	1652	1654.93	134.4	<5	1500	8.14	1282	3.9	333	139
		3-Mar-09	N	1652	1654.93	94.08	<5	1500	6	1370	3.93	247	95
		10-Mar-09	N	1652	1654.93	107.52	<5	1500	3.97	1389	3.87	273	110
		17-Mar-09	N	1652	1654.93	107.52	<5	1500	7.11	1398	3.85	280	111
		24-Mar-09	N	1652	1654.93	113.12	<5	1500	6.61	1373	3.86	299	125
		31-Mar-09	N	1652	1654.93	103.04	<5	1500	5.46	1292	3.83	266	106
		7-Apr-09	N	1652	1654.93	106.4	<5	1500	6.48	1312	3.77	269	118
		14-Apr-09	N	1652	1654.93	106.4	<5	1500	6.49	1340	3.78	261	100
		21-Apr-09	N	1652	1654.93	87.36	<5	1500	5.89	1297	3.82	242	98
		28-Apr-09	N	1652	1654.93	106.4	<5	1500	6.94	1301	3.76	283	116
		5-May-09	N	1652	1654.93	114.24	<5	1500	10	1278	3.75	309	129
		12-May-09	N	1652	1654.93	105.28	<5	1500	8.38	1333	3.73	288	111
		19-May-09	N	1652	1654.93	122.08	<5	1500	14.3	1269	3.68	330	134
		26-May-09	N	1652	1654.93	123.2	<5	1500	9.93	1312	3.76	340	143
		2-Jun-09	N	1652	1654.93	125.44	<5	1500	13	1292	3.68	348	140
		9-Jun-09	N	1652	1654.93	120.96	<5	1500	10.5	1313	3.66	326	134

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 21	16-Jun-09	N	1652	1654.93	117.6	<5	1500	15	1280	3.69	327	119
		23-Jun-09	N	1652	1654.93	134.4	<5	1500	17.3	1287	3.6	377	138
		30-Jun-09	N	1652	1654.93	140	<5	1500	17.1	1285	3.59	366	143
		7-Jul-09	N	1652	1654.93	150.08	<5	1500	17.2	1285	3.61	384	159
		14-Jul-09	N	1652	1654.93	151.2	<5	1500	17.3	1291	3.52	403	154
		21-Jul-09	N	1652	1654.93	129.92	<5	1500	18.2	1286	3.57	390	133
		28-Jul-09	N	1652	1654.93	176.96	<5	1500	20	785	3.55	460	191
		4-Aug-09	N	1652	1654.93	154.56	<5	1500	21.1	1280	3.56	406	153
		11-Aug-09	N	1652	1654.93	162.4	<5	1500	23.4	1279	3.59	437	155
		18-Aug-09	N	1652	1654.93	145.6	<5	1500	23.4	1226	3.54	405	135
		25-Aug-09	N	1652	1654.93	107.52	<5	1500	--	1409	3.63	333	105
	TEST 22	26-Aug-08	N	1654.93	1659.8	<20	31.995	2000	<0.05	1385	7.46	1270	489
		2-Sep-08	N	1654.93	1659.8	<20	7	2000	<0.05	1861	7.15	198	55
		9-Sep-08	N	1654.93	1659.8	<20	5	2000	<0.05	1933	6.54	74	16
		16-Sep-08	N	1654.93	1659.8	5.075	<20	2000	<0.05	1713	6.16	65	18
		23-Sep-08	N	1654.93	1659.8	5	<20	2000	<0.05	1870	6.16	46	<10
		30-Sep-08	N	1654.93	1659.8	5	<20	2000	<0.05	1855	6.16	143	45
		7-Oct-08	N	1654.93	1659.8	9	<20	2000	<0.05	1725	6.04	104	35
		14-Oct-08	N	1654.93	1659.8	7	<20	2000	<0.05	1889	6.03	87	28
		21-Oct-08	N	1654.93	1659.8	5	<20	2000	<0.05	1891	6.05	61	16
		28-Oct-08	N	1654.93	1659.8	5	<20	2000	<0.05	1749	6.16	74	26
		4-Nov-08	N	1654.93	1659.8	11	<20	2000	<0.05	1987	5.64	99	35
	TEST 22S	11-Nov-08	N	1654.93	1659.8	9	8	2000	<0.05	1480	6.53	70	19
		18-Nov-08	N	1654.93	1659.8	7	6	2000	<0.05	1971	6.35	34	<10
		25-Nov-08	N	1654.93	1659.8	7	<5	2000	<0.05	1987	6.27	26	<10
		2-Dec-08	N	1654.93	1659.8	5	6	2000	<0.05	1962	6.38	29	<10
		9-Dec-08	N	1654.93	1659.8	5	<5	2000	0.09	1940	5.64	32	<10
		16-Dec-08	N	1654.93	1659.8	6	<5	2000	<0.05	1937	6.04	28	<10
		23-Dec-08	N	1654.93	1659.8	7	<5	2000	<0.05	1940	6.24	30	10
		30-Dec-08	N	1654.93	1659.8	11	<5	2000	<0.05	1949	6.04	41	11
		6-Jan-09	N	1654.93	1659.8	10	<5	2000	0.09	1971	6.02	37	11

--	Not requested.
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MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 22S	13-Jan-09	N	1654.93	1659.8	11	<5	2000	0.06	1943	5.96	39	11
		20-Jan-09	N	1654.93	1659.8	15	<5	2000	<0.05	1856	5.9	48	14
		27-Jan-09	N	1654.93	1659.8	15	<5	2000	<0.05	1936	6.16	50	16
		3-Feb-09	N	1654.93	1659.8	19	<5	2000	<0.05	1877	6.03	58	19
		10-Feb-09	N	1654.93	1659.8	23	<5	2000	0.16	1844	5.9	82	30
		17-Feb-09	N	1654.93	1659.8	30	<5	2000	<0.05	1889	5.8	92	36
	TEST 23	26-Aug-08	N	1759.23	1761.23	279.65	<20	1000	4.36	670	4.38	1900	997
		2-Sep-08	N	1759.23	1761.23	16	<20	1000	0.06	909	5.01	150	55
		9-Sep-08	N	1759.23	1761.23	22	<20	1000	0.14	932	4.96	146	61
		16-Sep-08	N	1759.23	1761.23	204.175	<20	1000	<0.05	873	4.43	852	324
		23-Sep-08	N	1759.23	1761.23	648	<20	1000	<0.05	843	4.33	1400	781
		30-Sep-08	N	1759.23	1761.23	648	<20	1000	<0.05	843	4.33	808	449
		7-Oct-08	N	1759.23	1761.23	302	<20	1000	<0.05	843	4.43	658	295
		14-Oct-08	N	1759.23	1761.23	286	<20	1000	<0.05	838	4.37	671	396
		21-Oct-08	N	1759.23	1761.23	205	<20	1000	<0.05	831	4.23	522	225
		28-Oct-08	N	1759.23	1761.23	111	<20	1000	<0.05	932	4.45	314	139
		4-Nov-08	N	1759.23	1761.23	354	<20	1000	<0.05	822	4.12	822	461
		11-Nov-08	N	1759.23	1761.23	154	<20	1000	<0.05	911	4.35	394	186
		18-Nov-08	N	1759.23	1761.23	261	<20	1000	<0.05	778	4.23	641	325
		25-Nov-08	N	1759.23	1761.23	255	<5	1000	<0.05	899	4.27	619	317
		2-Dec-08	N	1759.23	1761.23	172	<5	1000	<0.05	918	4.21	458	215
		9-Dec-08	N	1759.23	1761.23	239	<5	1000	<0.05	922	4.19	599	300
		16-Dec-08	N	1759.23	1761.23	58	<5	1000	<0.05	903	4.19	174	308
		23-Dec-08	N	1759.23	1761.23	219	<5	1000	<0.05	892	4.19	558	295
		30-Dec-08	N	1759.23	1761.23	225	<5	1000	<0.05	788	4.17	570	270
		6-Jan-09	N	1759.23	1761.23	271	<5	1000	<0.05	798	4.1	660	321
		13-Jan-09	N	1759.23	1761.23	182	<5	1000	<0.05	781	4.16	461	221
		20-Jan-09	N	1759.23	1761.23	189	<5	1000	0.17	789	4.15	513	233
		27-Jan-09	N	1759.23	1761.23	204	<5	1000	3.85	779	4.11	496	256
		3-Feb-09	N	1759.23	1761.23	185	<5	1000	3.58	851	4.12	478	223
		10-Feb-09	N	1759.23	1761.23	138	<5	1000	5.47	773	4.15	379	168

--	Not requested.
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B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
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B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
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R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 23	17-Feb-09	N	1759.23	1761.23	190	<5	1000	3.63	900	4.12	509	228
		24-Feb-09	N	1759.23	1761.23	155.55	<5	1000	3.93	873	4.16	417	176
		3-Mar-09	N	1759.23	1761.23	202.59	<5	1000	4.85	846	4.08	494	257
		10-Mar-09	N	1759.23	1761.23	165.63	<5	1000	4.04	816	4.06	403	195
		17-Mar-09	N	1759.23	1761.23	184.735	<5	1000	5.54	850	4.01	487	229
		24-Mar-09	N	1759.23	1761.23	160.03	<5	1000	4.42	920	4.07	419	198
		31-Mar-09	N	1759.23	1761.23	189.215	<5	1000	4.95	885	4.01	467	264
		7-Apr-09	N	1759.23	1761.23	168	<5	1000	6.79	799	3.94	438	210
		14-Apr-09	N	1759.23	1761.23	170.24	<5	1000	4.84	816	3.96	422	207
		21-Apr-09	N	1759.23	1761.23	180.19	<5	1000	4.58	872	4.02	440	221
		28-Apr-09	N	1759.23	1761.23	201.6	<5	1000	5.85	861	3.95	505	245
		5-May-09	N	1759.23	1761.23	154.56	<5	1000	8.3	781	3.95	416	184
		12-May-09	N	1759.23	1761.23	181.44	<5	1000	7.58	802	3.91	474	223
		19-May-09	N	1759.23	1761.23	219.52	<5	1000	11.9	784	3.85	550	261
		26-May-09	N	1759.23	1761.23	232.96	<5	1000	7.93	838	3.93	606	316
		2-Jun-09	N	1759.23	1761.23	219.52	<5	1000	10.3	842	3.86	555	265
		9-Jun-09	N	1759.23	1761.23	208.32	<5	1000	10.5	805	3.84	539	247
		16-Jun-09	N	1759.23	1761.23	206.08	<5	1000	13.3	785	3.84	525	235
		23-Jun-09	N	1759.23	1761.23	199.36	<5	1000	14.4	793	3.79	529	277
		30-Jun-09	N	1759.23	1761.23	269.92	<5	1000	13.3	880	3.78	667	321
		7-Jul-09	N	1759.23	1761.23	227.36	<5	1000	24.7	784	3.78	547	256
		14-Jul-09	N	1759.23	1761.23	239.68	<5	1000	17.2	800	3.69	596	262
		21-Jul-09	N	1759.23	1761.23	304.64	<5	1000	25.1	784	3.67	758	373
		28-Jul-09	N	1759.23	1761.23	275.52	<5	1000	24.6	1298	3.71	648	309
		4-Aug-09	N	1759.23	1761.23	290.08	<5	1000	31.4	781	3.66	662	312
		11-Aug-09	N	1759.23	1761.23	322.56	<5	1000	30.2	775	3.69	732	332
		18-Aug-09	N	1759.23	1761.23	311.36	<5	1000	20.7	825	3.69	705	373
		25-Aug-09	N	1759.23	1761.23	329.28	<5	1000	--	795	3.68	747	382
	TEST 24	26-Aug-08	N	1892.81	1895	115.58	7.11	1000	0.22	579	4.82	1820	832
		2-Sep-08	N	1892.81	1895	<20	5	1000	0.28	981	5.27	36	11
		9-Sep-08	N	1892.81	1895	58	<20	1000	15.9	948	4.43	234	108

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D1	Sample required dilution due to matrix.
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R1	Relative percent difference exceeded the method control limit.
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V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 24	16-Sep-08	N	1892.81	1895	54.66	<20	1000	0.66	919	4.63	278	104
		23-Sep-08	N	1892.81	1895	151	<20	1000	0.17	836	4.43	478	216
		30-Sep-08	N	1892.81	1895	151	<20	1000	<0.05	850	4.43	408	186
		7-Oct-08	N	1892.81	1895	126	<20	1000	0.13	922	4.4	288	112
		14-Oct-08	N	1892.81	1895	132	<20	1000	0.15	894	4.26	356	167
		21-Oct-08	N	1892.81	1895	95	<20	1000	0.23	874	4.14	269	113
		28-Oct-08	N	1892.81	1895	162	<20	1000	0.12	853	4.29	400	198
		4-Nov-08	N	1892.81	1895	116	<20	1000	0.5	944	4.19	286	108
		11-Nov-08	N	1892.81	1895	116	<20	1000	0.15	713	4.45	306	148
		18-Nov-08	N	1892.81	1895	78	<20	1000	0.35	884	4.41	213	88
		25-Nov-08	N	1892.81	1895	132	<5	1000	0.09	830	4.1	316	165
		2-Dec-08	N	1892.81	1895	96	<5	1000	0.16	835	4.18	263	116
		9-Dec-08	N	1892.81	1895	57	<5	1000	1.33	954	4.21	166	66
		16-Dec-08	N	1892.81	1895	57	<5	1000	2.75	929	4.17	177	67
		23-Dec-08	N	1892.81	1895	65	<5	1000	2	937	4.19	189	79
		30-Dec-08	N	1892.81	1895	131	<5	1000	0.83	912	4.11	324	139
		6-Jan-09	N	1892.81	1895	89	<5	1000	1.74	828	4.22	243	101
		13-Jan-09	N	1892.81	1895	160	<5	1000	0.35	882	4.15	392	174
		20-Jan-09	N	1892.81	1895	138	<5	1000	0.41	830	4.11	353	153
		27-Jan-09	N	1892.81	1895	124	<5	1000	0.75	825	4.2	314	146
		3-Feb-09	N	1892.81	1895	170	<5	1000	0.5	877	4.16	426	207
		10-Feb-09	N	1892.81	1895	151	<5	1000	3.44	852	4.17	383	169
		17-Feb-09	N	1892.81	1895	157	<5	1000	3.57	915	4.17	410	197
	TEST 25	26-Aug-08	N	1917.29	1920.9	13.53	16.59	1500	<0.05	1101	6.25	1790	1020
		2-Sep-08	N	1917.29	1920.9	<20	<20	1500	<0.05	1472	6.16	126	41
		9-Sep-08	N	1917.29	1920.9	<20	5	1500	0.08	1471	6.43	825	23
		16-Sep-08	N	1917.29	1920.9	8.205	<20	1500	<0.05	1363	5.69	197	75
		23-Sep-08	N	1917.29	1920.9	11	<20	1500	<0.05	1409	5.43	231	84
		30-Sep-08	N	1917.29	1920.9	11	<20	1500	0.12	1353	5.43	445	771
		7-Oct-08	N	1917.29	1920.9	24	7	1500	<0.05	1323	6.36	216	86
		14-Oct-08	N	1917.29	1920.9	13	6	1500	<0.05	1388	6.14	134	47

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	TEST 25	21-Oct-08	N	1917.29	1920.9	16	<20	1500	0.05	1349	5.8	225	92
		28-Oct-08	N	1917.29	1920.9	20	<20	1500	0.05	1384	5.77	168	71
		4-Nov-08	N	1917.29	1920.9	19	<20	1500	0.15	1401	5.15	261	100
		18-Nov-08	N	1917.29	1920.9	5	<20	1500	<0.05	1388	5.21	57	18
	TEST 25S	11-Nov-08	N	1917.29	1920.9	11	<20	1500	0.05	961	5.37	91	33
		18-Nov-08	N	1917.29	1920.9	5	<5	1500	<0.05	1388	5.21	57	18
		25-Nov-08	N	1917.29	1920.9	6	<5	1500	0.09	1385	5.19	48	16
		2-Dec-08	N	1917.29	1920.9	6	<5	1500	<0.05	1340	4.97	52	15
		9-Dec-08	N	1917.29	1920.9	7	<5	1500	0.05	1432	4.86	58	<10
		16-Dec-08	N	1917.29	1920.9	9	<5	1500	<0.05	1447	4.94	55	19
		23-Dec-08	N	1917.29	1920.9	7	<5	1500	0.15	1367	5.09	53	18
		30-Dec-08	N	1917.29	1920.9	8	<5	1500	0.21	1484	4.85	69	22
		6-Jan-09	N	1917.29	1920.9	8	<5	1500	0.19	1422	5	78	26
		13-Jan-09	N	1917.29	1920.9	15	<5	1500	0.22	1244	4.86	90	35
		20-Jan-09	N	1917.29	1920.9	13	<5	1500	0.24	1393	4.78	69	23
		27-Jan-09	N	1917.29	1920.9	12	<5	1500	0.11	1397	4.86	64	21
		3-Feb-09	N	1917.29	1920.9	11	<5	1500	0.16	1215	4.95	61	20
		10-Feb-09	N	1917.29	1920.9	13	<5	1500	0.29	1461	4.9	65	20
		17-Feb-09	N	1917.29	1920.9	12	<5	1500	0.34	1388	4.82	78	28
RES-005J	TEST 26	26-Aug-08	N	1660.4	1686.47	<20	23.7	4000	<0.05	2786	7.25	422	122
		2-Sep-08	N	1660.4	1686.47	<20	14	4000	<0.05	3948	7.32	284	96
		9-Sep-08	N	1660.4	1686.47	<20	9	4000	<0.05	3858	7.39	195	63
		16-Sep-08	N	1660.4	1686.47	<20	9.48	4000	<0.05	3840	7.61	128	36
		23-Sep-08	N	1660.4	1686.47	7	11	4000	<0.05	3905	7.71	122	37
		30-Sep-08	N	1660.4	1686.47	7	11	4000	<0.05	3806	7.71	92	28
		7-Oct-08	N	1660.4	1686.47	<20	7	4000	<0.05	3789	7.78	68	20
		14-Oct-08	N	1660.4	1686.47	<20	<20	4000	<0.05	3558	7.51	61	21
		21-Oct-08	N	1660.4	1686.47	<20	8	4000	<0.05	3750	7.48	50	14
		28-Oct-08	N	1660.4	1686.47	<20	6	4000	<0.05	3841	6.4	42	11
		4-Nov-08	N	1660.4	1686.47	<20	<20	4000	<0.05	3841	7.72	42	11
		11-Nov-08	N	1660.4	1686.47	<20	9	4000	<0.05	3613	7.3	52	16

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005J	TEST 26	18-Nov-08	N	1660.4	1686.47	15	<20	4000	<0.05	3818	7.28	34	<10
		25-Nov-08	N	1660.4	1686.47	<5	<5	4000	<0.05	3922	7.08	32	<10
		2-Dec-08	N	1660.4	1686.47	<5	9	4000	<0.05	3780	7.4	36	11
		9-Dec-08	N	1660.4	1686.47	<5	<5	4000	<0.05	3772	7	34	30
		16-Dec-08	N	1660.4	1686.47	<5	6	4000	<0.05	3823	6.94	32	<10
		23-Dec-08	N	1660.4	1686.47	<5	<5	4000	<0.05	3843	6.97	24	<10
		30-Dec-08	N	1660.4	1686.47	<5	<5	4000	<0.05	3861	6.71	24	<10
		6-Jan-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3811	6.82	24	<10
		13-Jan-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3761	6.65	24	<10
		20-Jan-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3789	6.6	22	<10
		27-Jan-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3885	6.72	22	<10
		3-Feb-09	N	1660.4	1686.47	<5	6	4000	<0.05	3713	6.66	19	<10
		10-Feb-09	N	1660.4	1686.47	5	<5	4000	<0.05	3851	6.53	21	<10
		17-Feb-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3816	6.72	22	<10
		24-Feb-09	N	1660.4	1686.47	8.505	<5	4000	<0.05	3712	6.64	26	<10
		3-Mar-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3836	6.5	22	<10
		10-Mar-09	N	1660.4	1686.47	6.2	<5	4000	<0.05	3641	6.63	26	<10
		17-Mar-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3826	6.65	23	<10
		24-Mar-09	N	1660.4	1686.47	<5	7.11	4000	<0.05	3787	6.53	24	<10
		31-Mar-09	N	1660.4	1686.47	<5	5.925	4000	<0.05	3730	6.56	23	<10
		7-Apr-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3836	6.51	21	<10
		14-Apr-09	N	1660.4	1686.47	5.145	<5	4000	<0.05	3819	6.43	22	<10
		21-Apr-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3818	6.11	24	<10
		28-Apr-09	N	1660.4	1686.47	6.2	<5	4000	<0.05	3873	6.31	20	<10
		5-May-09	N	1660.4	1686.47	<5	<5	4000	<0.05	3788	6.16	24	<10
		12-May-09	N	1660.4	1686.47	6.2	<5	4000	<0.05	3609	6.33	23	<10
		19-May-09	N	1660.4	1686.47	8.505	<5	4000	<0.05	3595	6.34	26	<10
		26-May-09	N	1660.4	1686.47	6.4	<5	4000	<0.05	3720	6.36	28	<10
		2-Jun-09	N	1660.4	1686.47	5.32	<5	4000	<0.05	3840	6.29	25	<10
		9-Jun-09	N	1660.4	1686.47	7.56	<5	4000	<0.05	3867	6.36	28	<10
		16-Jun-09	N	1660.4	1686.47	7.56	<5	4000	<0.05	3881	6.29	30	<10

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005J	TEST 26	23-Jun-09	N	1660.4	1686.47	7.56	<5	4000	<0.05	3643	6.23	32	<10
		30-Jun-09	N	1660.4	1686.47	7.56	<5	4000	<0.05	3785	6.3	29	<10
		7-Jul-09	N	1660.4	1686.47	8.64	<5	4000	<0.05	3362	6.15	31	10
		14-Jul-09	N	1660.4	1686.47	9.8	<5	4000	<0.05	3761	6.05	33	11
		21-Jul-09	N	1660.4	1686.47	9.72	<5	4000	<0.05	3625	6.11	39	12
		28-Jul-09	N	1660.4	1686.47	9.64	5.8	4000	<0.05	3665	6.22	43	14
		4-Aug-09	N	1660.4	1686.47	16.48	<5	4000	<0.05	3690	6.15	52	17
		11-Aug-09	N	1660.4	1686.47	18.64	<5	4000	<0.05	3705	5.74	53	19
		18-Aug-09	N	1660.4	1686.47	15.28	<5	4000	<0.05	3646	6.07	46	14
		25-Aug-09	N	1660.4	1686.47	19.76	<5	4000	--	3858	5.93	54	19
		1-Sep-09	N	1660.4	1686.47	20	<5	4000	<0.05	3080	5.82	56	76
		8-Sep-09	N	1660.4	1686.47	23.24	<5	4000	0.13	3783	5.93	65	23
		15-Sep-09	N	1660.4	1686.47	26.52	<5	4000	<0.05	3826	5.99	74	29
		22-Sep-09	N	1660.4	1686.47	23.2	<5	4000	0	3765	6.03	66	26
		29-Sep-09	N	1660.4	1686.47	24.32	<5	4000	<0.05	3747	5.89	66	27
		6-Oct-09	N	1660.4	1686.47	28.84	<5	4000	<0.05	3823	5.93	73	31
		13-Oct-09	N	1660.4	1686.47	29.96	<5	4000	<0.05	3824	6.02	77	30
		20-Oct-09	N	1660.4	1686.47	23.24	<5	4000	<0.05	3885	6.08	76	30
		27-Oct-09	N	1660.4	1686.47	30	<2.5	4000	<0.025	3872	6.02	82	37
		3-Nov-09	N	1660.4	1686.47	18.8	<2.5	4000	<0.025	3849	--	68	24
		10-Nov-09	N	1660.4	1686.47	24.4	<2.5	4000	<0.025	3786	5.85	78	30
		17-Nov-09	N	1660.4	1686.47	27.72	<5	4000	<0.05	3855	--	79	31
		24-Nov-09	N	1660.4	1686.47	28	<5	4000	<0.05	3661	6	85	33
		1-Dec-09	N	1660.4	1686.47	35.56	<5	4000	<0.05	3838	5.88	98	38
		8-Dec-09	N	1660.4	1686.47	28.84	<5	4000	<0.05	3789	5.86	82	33
		15-Dec-09	N	1660.4	1686.47	37.8	<5	4000	<0.05	3815	5.85	112	48
		22-Dec-09	N	1660.4	1686.47	52.36	<5	4000	<0.05	3816	5.88	151	63
		29-Dec-09	N	1660.4	1686.47	47.88	<5	4000	<0.05	3804	5.86	131	58
		5-Jan-10	N	1660.4	1686.47	45.64	<5	4000	<0.05	3869	5.75	134	55
		12-Jan-10	N	1660.4	1686.47	44.56	<5	4000	<0.05	3892	5.55	123	43
		19-Jan-10	N	1660.4	1686.47	53.6	<5	4000	<0.05	3861	5.88	134	62

--	Not requested.
MG/L	milligrams per liter
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B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005J	TEST 26	26-Jan-10	N	1660.4	1686.47	74.76	<5	4000	<0.05	3835	5.73	208	91
RES-006D	TEST 27	26-Aug-08	N	1750.4	1753.4	2640	<20	1800	4.52	1086	3.88	5200	4610
		2-Sep-08	N	1750.4	1753.4	179	<20	1800	4.16	1537	4.38	519	233
		9-Sep-08	N	1750.4	1753.4	87	<20	1800	2.54	1728	4.32	238	93
		16-Sep-08	N	1750.4	1753.4	109.83	<20	1800	3.92	1698	4.17	300	129
		23-Sep-08	N	1750.4	1753.4	133	<20	1800	7.44	1700	3.97	347	144
		30-Sep-08	N	1750.4	1753.4	133	<20	1800	9	1648	3.97	359	150
		7-Oct-08	N	1750.4	1753.4	217	<20	1800	13.7	1530	3.92	545	233
		14-Oct-08	N	1750.4	1753.4	193	<20	1800	15.2	1644	3.67	490	197
		21-Oct-08	N	1750.4	1753.4	147	<20	1800	15	1690	3.55	399	166
		28-Oct-08	N	1750.4	1753.4	119	<20	1800	13.9	1711	3.75	376	169
		4-Nov-08	N	1750.4	1753.4	124	<20	1800	17	1700	3.58	385	144
		11-Nov-08	N	1750.4	1753.4	351	<20	1800	23.7	1476	3.68	914	480
		18-Nov-08	N	1750.4	1753.4	760	<20	1800	46.3	1450	3.53	1610	1120
		25-Nov-08	N	1750.4	1753.4	131	<5	1800	12.8	1649	3.74	537	246
		2-Dec-08	N	1750.4	1753.4	87	<5	1800	18.9	1744	3.71	351	123
		9-Dec-08	N	1750.4	1753.4	76	<5	1800	14.9	1706	3.59	299	86
		16-Dec-08	N	1750.4	1753.4	86	<5	1800	19.6	1695	3.56	322	106
		23-Dec-08	N	1750.4	1753.4	78	<5	1800	15.8	1707	3.61	289	86
		30-Dec-08	N	1750.4	1753.4	92	<5	1800	21.9	1734	3.53	335	103
		6-Jan-09	N	1750.4	1753.4	94	<5	1800	24.4	1653	3.56	341	97
		13-Jan-09	N	1750.4	1753.4	78	<5	1800	18.1	1684	3.55	301	91
		20-Jan-09	N	1750.4	1753.4	232	<5	1800	42.5	1582	3.34	667	251
		27-Jan-09	N	1750.4	1753.4	142	<5	1800	24.6	1713	3.55	440	166
		3-Feb-09	N	1750.4	1753.4	421	<5	1800	45.6	1446	3.44	1050	501
		10-Feb-09	N	1750.4	1753.4	68	<5	1800	13.3	1712	3.83	249	84
		17-Feb-09	N	1750.4	1753.4	58	<5	1800	14	1761	3.81	210	63
	TEST 28	26-Aug-08	N	1898.21	1901.09	1650	<20	1800	0.75	859	4.41	5110	3480
		2-Sep-08	N	1898.21	1901.09	268	<20	1800	4.33	1691	4.42	1000	500
		9-Sep-08	N	1898.21	1901.09	27	<20	1800	0.13	1698	5.1	89	37
		16-Sep-08	N	1898.21	1901.09	20.475	<20	1800	0.05	1706	5.11	134	50

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-006D	TEST 28	23-Sep-08	N	1898.21	1901.09	40	<20	1800	0.13	1708	4.95	10	39
		30-Sep-08	N	1898.21	1901.09	40	<20	1800	0.24	1656	4.95	220	80
		7-Oct-08	N	1898.21	1901.09	229	<20	1800	0.14	1585	4.6	577	278
		14-Oct-08	N	1898.21	1901.09	125	<20	1800	0.45	1652	4.58	282	130
		21-Oct-08	N	1898.21	1901.09	97	<20	1800	0.63	1652	4.37	277	118
		28-Oct-08	N	1898.21	1901.09	106	<20	1800	0.45	1677	4.49	311	140
		4-Nov-08	N	1898.21	1901.09	133	<20	1800	0.39	1687	4.34	379	167
		11-Nov-08	N	1898.21	1901.09	149	<20	1800	0.45	1641	4.2	405	194
		18-Nov-08	N	1898.21	1901.09	156	<20	1800	0.23	1626	4.13	468	240
		25-Nov-08	N	1898.21	1901.09	154	<5	1800	0.37	1661	4.09	417	204
		2-Dec-08	N	1898.21	1901.09	125	<5	1800	0.72	1781	4.06	368	149
		9-Dec-08	N	1898.21	1901.09	114	<5	1800	0.74	1693	4.05	331	151
		16-Dec-08	N	1898.21	1901.09	118	<5	1800	2.06	1683	4.06	319	137
		23-Dec-08	N	1898.21	1901.09	141	<5	1800	2.69	1641	3.96	382	166
		30-Dec-08	N	1898.21	1901.09	88	<5	1800	2.19	1728	4.05	273	120
		6-Jan-09	N	1898.21	1901.09	103	<5	1800	2.73	1678	3.99	303	109
		13-Jan-09	N	1898.21	1901.09	152	<5	1800	2.99	1626	3.98	406	185
		20-Jan-09	N	1898.21	1901.09	181	<5	1800	3.2	1603	3.96	474	202
		27-Jan-09	N	1898.21	1901.09	158	<5	1800	3.93	1648	3.86	408	174
		3-Feb-09	N	1898.21	1901.09	336	<5	1800	1.19	1640	3.86	826	370
		10-Feb-09	N	1898.21	1901.09	404	<5	1800	4.41	1619	3.96	991	472
		17-Feb-09	N	1898.21	1901.09	614	<5	1800	1.81	1363	3.82	1430	1010
		24-Feb-09	N	1898.21	1901.09	514.08	<5	1800	11.8	1591	3.86	1160	694
		3-Mar-09	N	1898.21	1901.09	61.405	<5	1800	1.45	1673	4.25	246	97
		10-Mar-09	N	1898.21	1901.09	528.64	<5	1800	10.3	1538	3.88	1210	747
		17-Mar-09	N	1898.21	1901.09	21.085	<5	1800	0.68	1724	4.31	140	49
		24-Mar-09	N	1898.21	1901.09	630.56	<5	1800	16.6	1414	3.89	1370	910
		31-Mar-09	N	1898.21	1901.09	366.24	<5	1800	7.95	1527	3.85	851	435
		7-Apr-09	N	1898.21	1901.09	181.44	<5	1800	5.7	1640	3.92	443	195
		14-Apr-09	N	1898.21	1901.09	33.34	<5	1800	0.98	1711	4.24	105	38
		21-Apr-09	N	1898.21	1901.09	549.92	<5	1800	16.6	1497	3.75	1230	740

--	Not requested.
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MLS	milliliters
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B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
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M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-006D	TEST 28	28-Apr-09	N	1898.21	1901.09	445.76	<5	1800	14.7	1495	3.72	1020	539
		5-May-09	N	1898.21	1901.09	53.76	<5	1800	3.12	1613	3.99	182	60
		12-May-09	N	1898.21	1901.09	610.4	<5	1800	14.8	1442	3.65	1280	795
		19-May-09	N	1898.21	1901.09	467.04	<5	1800	25.3	1447	3.64	1050	549
		26-May-09	N	1898.21	1901.09	627.2	<5	1800	24.5	1375	3.68	1410	817
		2-Jun-09	N	1898.21	1901.09	627.2	<5	1800	46.8	1453	3.57	1320	748
		9-Jun-09	N	1898.21	1901.09	217.28	<5	1800	14.8	1643	3.73	531	235
		16-Jun-09	N	1898.21	1901.09	480.48	<5	1800	33.2	1447	3.59	1110	697
		23-Jun-09	N	1898.21	1901.09	544.32	<5	1800	38.5	1432	3.53	1270	955
		30-Jun-09	N	1898.21	1901.09	665.28	<5	1800	56.8	1473	3.47	1360	735
		7-Jul-09	N	1898.21	1901.09	1030	<5	1800	95.3	1205	3.4	1860	1140
		14-Jul-09	N	1898.21	1901.09	815.36	<5	1800	90.6	1309	3.33	1580	895
		21-Jul-09	N	1898.21	1901.09	694.4	<5	1800	89.9	1425	3.4	1450	748
		28-Jul-09	N	1898.21	1901.09	609.28	<5	1800	77.4	1531	3.43	1290	657
		4-Aug-09	N	1898.21	1901.09	627.2	<5	1800	103	1478	3.38	1320	686
		11-Aug-09	N	1898.21	1901.09	306.88	<5	1800	42.4	1417	3.57	748	296
		18-Aug-09	N	1898.21	1901.09	633.92	<5	1800	42.6	1446	3.64	730	307
		25-Aug-09	N	1898.21	1901.09	237.44	<5	1800	--	1440	3.76	541	225
	TEST 29	26-Aug-08	N	1952.56	1954.83	86.56	<20	1500	3.31	1202	4.74	616	240
		2-Sep-08	N	1952.56	1954.83	77	<20	1500	0.17	1396	5.43	248	97
		9-Sep-08	N	1952.56	1954.83	23	<20	1500	0.11	1449	5.47	826	32
		16-Sep-08	N	1952.56	1954.83	79.79	<20	1500	0.11	1402	5.34	243	96
		23-Sep-08	N	1952.56	1954.83	110	<20	1500	0.26	1337	4.84	283	132
		30-Sep-08	N	1952.56	1954.83	110	<20	1500	0.29	1343	4.84	354	156
		7-Oct-08	N	1952.56	1954.83	104	<20	1500	0.44	1387	4.75	199	82
		14-Oct-08	N	1952.56	1954.83	76	<20	1500	0.36	1376	4.47	198	82
		21-Oct-08	N	1952.56	1954.83	61	<20	1500	0.42	1358	4.85	153	64
		28-Oct-08	N	1952.56	1954.83	56	<20	1500	0.65	1370	4.45	158	66
		4-Nov-08	N	1952.56	1954.83	75	<20	1500	1.47	1395	4.07	206	74
	TEST 29S	11-Nov-08	N	1952.56	1954.83	19	<20	1500	1.21	1233	4.12	72	21
		18-Nov-08	N	1952.56	1954.83	13	<20	1500	0.76	1468	4.19	60	13

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-006D	TEST 29S	25-Nov-08	N	1952.56	1954.83	9	<5	1500	0.45	1311	4.4	34	<10
		2-Dec-08	N	1952.56	1954.83	22	<5	1500	0.72	1399	4.02	72	15
		9-Dec-08	N	1952.56	1954.83	21	<5	1500	0.08	1471	4.03	76	19
		16-Dec-08	N	1952.56	1954.83	11	<5	1500	0.47	1422	4.32	49	11
		23-Dec-08	N	1952.56	1954.83	14	<5	1500	0.56	1459	4.17	55	14
		30-Dec-08	N	1952.56	1954.83	16	<5	1500	0.58	1464	4.11	56	12
		6-Jan-09	N	1952.56	1954.83	19	<5	1500	0.64	1411	4.24	53	11
		13-Jan-09	N	1952.56	1954.83	13	<5	1500	0.57	1415	4.22	53	12
		20-Jan-09	N	1952.56	1954.83	17	<5	1500	0.63	1310	4.19	57	13
		27-Jan-09	N	1952.56	1954.83	17	<5	1500	0.62	1419	4.2	56	13
		3-Feb-09	N	1952.56	1954.83	21	<5	1500	0.72	1386	4.18	69	18
		10-Feb-09	N	1952.56	1954.83	18	<5	1500	0.83	1457	4.11	71	18
		17-Feb-09	N	1952.56	1954.83	22	<5	1500	1.23	1397	4.19	71	17
	TEST 30	26-Aug-08	N	1954.83	1972	<20	10.665	4000	<0.05	2849	6.51	316	113
		2-Sep-08	N	1954.83	1972	<20	<20	4000	<0.05	3757	6.4	260	91
		9-Sep-08	N	1954.83	1972	5	<20	4000	0.12	3753	6.05	228	85
		16-Sep-08	N	1954.83	1972	17.175	<20	4000	<0.05	3804	5.49	209	84
		23-Sep-08	N	1954.83	1972	47	<20	4000	<0.05	3752	5.28	275	99
		30-Sep-08	N	1954.83	1972	47	<20	4000	<0.05	3728	5.28	330	140
		7-Oct-08	N	1954.83	1972	108	<20	4000	<0.05	3630	5.49	358	166
		14-Oct-08	N	1954.83	1972	77	7	4000	<0.05	3649	5.37	301	149
		21-Oct-08	N	1954.83	1972	91	<20	4000	<0.05	3712	5.21	351	188
		28-Oct-08	N	1954.83	1972	87	<20	4000	<0.05	3801	5.56	310	144
		4-Nov-08	N	1954.83	1972	109	<20	4000	<0.05	3794	5.15	388	208
		11-Nov-08	N	1954.83	1972	94	<20	4000	<0.05	3784	5.49	342	167
		18-Nov-08	N	1954.83	1972	98	<20	4000	<0.05	3751	5.57	347	175
		25-Nov-08	N	1954.83	1972	107	<5	4000	<0.05	3867	5.4	370	168
		2-Dec-08	N	1954.83	1972	99	<5	4000	<0.05	3807	5.6	315	137
		9-Dec-08	N	1954.83	1972	104	<5	4000	<0.05	3813	5.67	332	80
		16-Dec-08	N	1954.83	1972	99	<5	4000	<0.05	3853	5.62	326	157
		23-Dec-08	N	1954.83	1972	113	<5	4000	<0.05	3775	5.57	342	166

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-006D	TEST 30	30-Dec-08	N	1954.83	1972	100	<5	4000	<0.05	3816	5.59	308	136
		6-Jan-09	N	1954.83	1972	105	<5	4000	<0.05	3736	5.44	322	142
		13-Jan-09	N	1954.83	1972	103	<5	4000	<0.05	3723	5.26	307	162
		20-Jan-09	N	1954.83	1972	103	<5	4000	<0.05	3750	5.42	297	145
		27-Jan-09	N	1954.83	1972	95	<5	4000	<0.05	3895	5.11	293	137
		3-Feb-09	N	1954.83	1972	103	<5	4000	<0.05	3754	5.28	297	143
		10-Feb-09	N	1954.83	1972	96	<5	4000	<0.05	3775	5.46	302	136
		17-Feb-09	N	1954.83	1972	96	<5	4000	<0.05	3815	5.26	303	146
		24-Feb-09	N	1954.83	1972	114.97	<5	4000	<0.05	3662	5.06	347	141
		3-Mar-09	N	1954.83	1972	111.545	<5	4000	<0.05	3653	5.23	329	141
		10-Mar-09	N	1954.83	1972	102.585	<5	4000	<0.05	3711	5.17	289	150
		17-Mar-09	N	1954.83	1972	111.61	<5	4000	<0.05	3777	5.09	299	150
		24-Mar-09	N	1954.83	1972	101.53	<5	4000	<0.05	3727	5.13	285	147
		31-Mar-09	N	1954.83	1972	94.81	<5	4000	0.06	3783	5.27	280	132
		7-Apr-09	N	1954.83	1972	92.505	<5	4000	0.1	3808	5.33	267	130
		14-Apr-09	N	1954.83	1972	104.89	<5	4000	<0.05	3894	5.07	282	146
		21-Apr-09	N	1954.83	1972	90.3835	<5	4000	<0.05	3745	5.41	267	125
		28-Apr-09	N	1954.83	1972	99.225	<5	4000	<0.05	3719	5.19	279	131
		5-May-09	N	1954.83	1972	114.97	<5	4000	0.18	3850	4.98	347	161
		12-May-09	N	1954.83	1972	114.905	<5	4000	0.19	3697	5.29	331	154
		19-May-09	N	1954.83	1972	122.745	<5	4000	0.1	3574	5.22	346	154
		26-May-09	N	1954.83	1972	114	<5	4000	0.14	3730	5.3	341	155
		2-Jun-09	N	1954.83	1972	135.24	<5	4000	0.09	3766	5.31	383	179
		9-Jun-09	N	1954.83	1972	117.32	<5	4000	<0.05	3750	5.03	336	158
		16-Jun-09	N	1954.83	1972	131.88	<5	4000	0.15	3784	5.16	376	185
		23-Jun-09	N	1954.83	1972	146.44	<5	4000	0.09	3767	5.11	403	104
		30-Jun-09	N	1954.83	1972	148.68	<5	4000	<0.05	3750	5.32	388	190
		7-Jul-09	N	1954.83	1972	205.84	<5	4000	<0.05	3509	4.93	539	290
		14-Jul-09	N	1954.83	1972	158.8	<5	4000	<0.05	3770	4.91	410	176
		21-Jul-09	N	1954.83	1972	205.8	<5	4000	0.1	3652	4.81	551	274
		28-Jul-09	N	1954.83	1972	180.04	<5	4000	0.15	3722	4.83	459	237

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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-006D	TEST 30	4-Aug-09	N	1954.83	1972	180.04	<5	4000	0.12	3763	4.79	461	222
		11-Aug-09	N	1954.83	1972	178.92	<5	4000	0.06	3702	4.76	478	230
		18-Aug-09	N	1954.83	1972	191.24	<5	4000	0.17	3692	4.7	485	249
		25-Aug-09	N	1954.83	1972	172.24	<5	4000	--	3851	4.6	440	214
	TEST 31	26-Aug-08	N	1980.6	1983.6	2560	<20	2000	1.76	1455	3.64	3740	3330
		2-Sep-08	N	1980.6	1983.6	128	<20	2000	8.26	1961	4.1	323	136
		9-Sep-08	N	1980.6	1983.6	202	<20	2000	15.9	1884	3.8	512	202
		16-Sep-08	N	1980.6	1983.6	145	<20	2000	15.1	1910	3.92	359	137
		23-Sep-08	N	1980.6	1983.6	220	<20	2000	14.2	1856	3.94	464	201
		30-Sep-08	N	1980.6	1983.6	220	<20	2000	31.1	1839	3.94	758	386
		7-Oct-08	N	1980.6	1983.6	366	<20	2000	29.4M3	1780	3.83	793	370
		14-Oct-08	N	1980.6	1983.6	120	<20	2000	21.8	1897	3.93	360	159
		21-Oct-08	N	1980.6	1983.6	161	<20	2000	25	1825	3.99	464	201
		28-Oct-08	N	1980.6	1983.6	196	<20	2000	28.5	1861	3.95	480	235
		4-Nov-08	N	1980.6	1983.6	62	<20	2000	9.05	1859	4.16	176	59
	TEST 31S	11-Nov-08	N	1980.6	1983.6	206	<20	2000	23.5	1540	3.77	579	265
		18-Nov-08	N	1980.6	1983.6	71	<20	2000	9.77	1931	3.79	235	80
		25-Nov-08	N	1980.6	1983.6	48	<5	2000	9.13	1947	4	168	49
		2-Dec-08	N	1980.6	1983.6	62	<5	2000	9.63	1883	3.59	221	66
		9-Dec-08	N	1980.6	1983.6	87	<5	2000	8.07	1911	3.74	173	50
		16-Dec-08	N	1980.6	1983.6	47	<5	2000	7.82	1878	3.67	170	45
		23-Dec-08	N	1980.6	1983.6	63	<5	2000	9.33	1941	3.73	168	56
	TEST 32	26-Aug-08	N	2091.13	2094.13	<20	199.08	1800	0.11	863	7.49	4430	2970
		2-Sep-08	N	2091.13	2094.13	<20	56	1800	<0.05	1766	7.8	231	<10
		9-Sep-08	N	2091.13	2094.13	12	25	1800	<0.05	1716	7.7	116	19
		16-Sep-08	N	2091.13	2094.13	<20	14.22	1800	<0.05	1753	7.93	71	13
		23-Sep-08	N	2091.13	2094.13	<20	20	1800	<0.05	1511	7.44	345	123
		30-Sep-08	N	2091.13	2094.13	<20	20	1800	<0.05	1589	7.44	293	115
		7-Oct-08	N	2091.13	2094.13	11	<20	1800	<0.05	1541	7.82	368	143
		14-Oct-08	N	2091.13	2094.13	<20	18	1800	<0.05	1708	7.75	332	145
		21-Oct-08	N	2091.13	2094.13	<20	19	1800	<0.05	1713	7.75	227	77

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-006D	TEST 32	28-Oct-08	N	2091.13	2094.13	<20	19	1800	<0.05	1613	7.8	257	95
		4-Nov-08	N	2091.13	2094.13	<20	20	1800	<0.05	1663	7.64	358	146
	TEST 32S	11-Nov-08	N	2091.13	2094.13	<20	15	1800	<0.05	1059	7.47	593	277
		18-Nov-08	N	2091.13	2094.13	<20	8	1800	<0.05	1803	7.7	145	60
		25-Nov-08	N	2091.13	2094.13	<5	<5	1800	<0.05	1769	6.77	114	47
		2-Dec-08	N	2091.13	2094.13	<5	<5	1800	<0.05	1748	7.05	119	45
		9-Dec-08	N	2091.13	2094.13	<5	<5	1800	<0.05	1695	6.99	132	<10
		16-Dec-08	N	2091.13	2094.13	<5	<5	1800	<0.05	1722	6.85	158	61
		23-Dec-08	N	2091.13	2094.13	<5	<5	1800	<0.05	1723	6.68	154	59
		30-Dec-08	N	2091.13	2094.13	<5	<5	1800	<0.05	1735	6.65	151	54
		6-Jan-09	N	2091.13	2094.13	<5	<5	1800	<0.05	1685	6.74	205	81
		13-Jan-09	N	2091.13	2094.13	<5	<5	1800	<0.05	1681	6.6	202	87
		20-Jan-09	N	2091.13	2094.13	7	<5	1800	<0.05	1656	6.38	228	99
		27-Jan-09	N	2091.13	2094.13	5	<5	1800	<0.05	1705	6.58	205	90
		3-Feb-09	N	2091.13	2094.13	<5	<5	1800	<0.05	1675	6.35	218	95
		10-Feb-09	N	2091.13	2094.13	5	<5	1800	<0.05	1706	6.52	217	92
		17-Feb-09	N	2091.13	2094.13	<5	<5	1800	<0.05	1723	6.36	219	93
RES-008A	TEST 33	26-Aug-08	N	1597	1600	<20	52.14	3333	0.29	2542	7.88	206	<10
		2-Sep-08	N	1597	1600	<20	39	3333	<0.05	2996	8.08	150	15
		9-Sep-08	N	1597	1600	<20	38	3333	<0.05	2898	8.72	105	<10
		16-Sep-08	N	1597	1600	<20	41.475	3333	<0.05	2792	8.48	92	<10
		23-Sep-08	N	1597	1600	<20	36	3333	<0.05	2948	8.39	72	<10
		30-Sep-08	N	1597	1600	<20	36	3333	<0.05	3020	8.39	80	<10
		7-Oct-08	N	1597	1600	<20	32	3333	<0.05	2809	8.67	68	<10
		14-Oct-08	N	1597	1600	<20	32	3333	<0.05	2885	8.13	69	<10
		21-Oct-08	N	1597	1600	<20	31	3333	<0.05	2817	7.84	65	<10
		28-Oct-08	N	1597	1600	<20	32	3333	<0.05	3082	8.7	67	<10
		4-Nov-08	N	1597	1600	<20	33	3333	<0.05	2821	8.6	67	<10
		11-Nov-08	N	1597	1600	<20	25	3333	<0.05	3047	8.47	62	<10
		18-Nov-08	N	1597	1600	<20	32	3333	<0.05	3244	8.48	67	<10
		25-Nov-08	N	1597	1600	<5	28	3333	<0.05	2963	8.54	56	<10

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 33	2-Dec-08	N	1597	1600	<5	31	3333	<0.05	3313	8.02	64	<10
		9-Dec-08	N	1597	1600	<5	30	3333	<0.05	2996	8.04	58	40
		16-Dec-08	N	1597	1600	<5	27	3333	<0.05	3130	8.4	53	<10
		23-Dec-08	N	1597	1600	<5	30	3333	<0.05	3194	7.69	60	<10
		30-Dec-08	N	1597	1600	<5	30	3333	<0.05	3062	8.19	58	<10
		6-Jan-09	N	1597	1600	<5	28	3333	<0.05	3001	8.26	58	<10
		13-Jan-09	N	1597	1600	<5	30	3333	<0.05	3098	8.25	61	<10
		20-Jan-09	N	1597	1600	<5	31	3333	<0.05	2862	8.17	60	<10
		27-Jan-09	N	1597	1600	<5	27	3333	<0.05	2955	8.45	49	<10
		3-Feb-09	N	1597	1600	<5	28	3333	<0.05	2871	8.22	60	<10
		10-Feb-09	N	1597	1600	<5	26	3333	<0.05	3022	8.3	54	<10
		17-Feb-09	N	1597	1600	<5	27	3333	<0.05	3055	8.14	56	<10
	TEST 34	26-Aug-08	N	1717	1720	<20	59.25	3333	0.16	2542	7.69	707	267
		2-Sep-08	N	1717	1720	<20	13	3333	<0.05	3143	7.21	518	224
		9-Sep-08	N	1717	1720	<20	14	3333	<0.05	3226	7.53	417	144
		16-Sep-08	N	1717	1720	<20	17.775	3333	<0.05	3172	7.51	449	195
		23-Sep-08	N	1717	1720	5	17	3333	<0.05	3211	7.59	291	112
		30-Sep-08	N	1717	1720	5	17	3333	<0.05	3151	7.59	293	116
		7-Oct-08	N	1717	1720	<20	15	3333	<0.05	3144	7.89	254	101
		14-Oct-08	N	1717	1720	<20	12	3333	<0.05	3177	7.7	216	86
		21-Oct-08	N	1717	1720	<20	14	3333	<0.05	3087	8.07	182	62
		28-Oct-08	N	1717	1720	<20	13	3333	<0.05	3235	7.81	151	62
		4-Nov-08	N	1717	1720	<20	14	3333	<0.05	3257	7.84	183	64
		11-Nov-08	N	1717	1720	<20	7	3333	<0.05	3251	7.77	137	47
		18-Nov-08	N	1717	1720	<20	11	3333	<0.05	3186	7.85	140	50
		25-Nov-08	N	1717	1720	<5	11	3333	<0.05	3116	7.73	115	40
		2-Dec-08	N	1717	1720	<5	12	3333	<0.05	3309	7.91	139	49
		9-Dec-08	N	1717	1720	<5	8	3333	<0.05	3261	6.65	112	34
		16-Dec-08	N	1717	1720	<5	11	3333	<0.05	3280	7.87	115	40
		23-Dec-08	N	1717	1720	<5	9	3333	<0.05	3273	7.92	104	35
		30-Dec-08	N	1717	1720	<5	9	3333	<0.05	3279	7.99	100	31

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 34	6-Jan-09	N	1717	1720	<5	11	3333	<0.05	3222	7.77	105	34
		13-Jan-09	N	1717	1720	<5	11	3333	<0.05	3187	7.82	100	34
		20-Jan-09	N	1717	1720	<5	9	3333	<0.05	3100	7.94	111	36
		27-Jan-09	N	1717	1720	<5	12	3333	<0.05	3274	7.9	96	31
		3-Feb-09	N	1717	1720	<5	11	3333	<0.05	3146	8.13	96	29
		10-Feb-09	N	1717	1720	<5	13	3333	<0.05	3272	7.93	104	32
		17-Feb-09	N	1717	1720	<5	11	3333	<0.05	3330	7.5	99	30
		24-Feb-09	N	1717	1720	<5	13.035	3333	<0.05	3274	7.65	106	32
		3-Mar-09	N	1717	1720	<5	13.035	3333	<0.05	3071	7.85	110	36
		10-Mar-09	N	1717	1720	<5	15.405	3333	<0.05	3100	7.94	96	32
		17-Mar-09	N	1717	1720	<5	13.035	3333	<0.05	3090	7.78	92	29
		24-Mar-09	N	1717	1720	<5	13.035	3333	<0.05	2876	7.81	104	34
		31-Mar-09	N	1717	1720	<5	14.22	3333	<0.05	3185	7.82	92	28
		7-Apr-09	N	1717	1720	<5	10.665	3333	<0.05	3206	7.6	76	22
		14-Apr-09	N	1717	1720	<5	11.85	3333	<0.05	3046	7.81	86	28
		21-Apr-09	N	1717	1720	<5	11.85	3333	<0.05	3117	7.81	94	29
		28-Apr-09	N	1717	1720	<5	11.85	3333	<0.05	3158	7.81	85	27
		5-May-09	N	1717	1720	<5	13.035	3333	<0.05	3025	7.54	101	33
		12-May-09	N	1717	1720	<5	13.035	3333	<0.05	3022	7.56	110	36
		19-May-09	N	1717	1720	<5	14.22	3333	<0.05	3115	7.69	102	34
		26-May-09	N	1717	1720	<5	10.44	3333	<0.05	3041	7.58	122	39
		2-Jun-09	N	1717	1720	<5	11.6	3333	<0.05	3140	7.64	121	41
		9-Jun-09	N	1717	1720	<5	11.6	3333	<0.05	2999	7.71	113	40
		16-Jun-09	N	1717	1720	<5	11.6	3333	<0.05	3059	7.75	116	38
		23-Jun-09	N	1717	1720	<5	10.44	3333	<0.05	3136	7.76	113	42
		30-Jun-09	N	1717	1720	<5	10.44	3333	<0.05	3158	7.61	145	50
		7-Jul-09	N	1717	1720	<5	10.44	3333	<0.05	2965	7.71	177	69
		14-Jul-09	N	1717	1720	<5	9.28	3333	<0.05	2988	7.28	149	57
		21-Jul-09	N	1717	1720	<5	11.6	3333	<0.05	2966	7.53	184	70
		28-Jul-09	N	1717	1720	<5	8.12	3333	<0.05	2834	7.51	177	67
		4-Aug-09	N	1717	1720	<5	9.28	3333	<0.05	3070	7.87	153	55

--	Not requested.
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UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 34	11-Aug-09	N	1717	1720	<5	10.44	3333	<0.05	3017	7.4	171	61
		18-Aug-09	N	1717	1720	<5	11.6	3333	<0.05	3114	7.4	159	58
		25-Aug-09	N	1717	1720	<5	10.44	3333	--	3140	7.57	171	66
		1-Sep-09	N	1717	1720	<5	5.8	3333	<0.05	3705	7.13	181	20
		8-Sep-09	N	1717	1720	<5	8.12	3333	<0.05	3023	7.15	178	62
		15-Sep-09	N	1717	1720	<5	8.12	3333	<0.05	3151	6.67	155	60
		22-Sep-09	N	1717	1720	<5	5.8	3333	0	3122	6.91	142	55
		29-Sep-09	N	1717	1720	<5	<5	3333	<0.05	3161	6.79	124	40
		6-Oct-09	N	1717	1720	<5	<5	3333	<0.05	3187	6.63	125	49
		13-Oct-09	N	1717	1720	<5	5.8	3333	<0.05	3226	7.38	108	41
		20-Oct-09	N	1717	1720	<5	6.96	3333	<0.05	3202	7.32	106	39
		27-Oct-09	N	1717	1720	<2.5	6.96	3333	<0.025	3183	7.13	100	37
		3-Nov-09	N	1717	1720	<2.5	9.28	3333	<0.025	3222	7.2	93	33
		10-Nov-09	N	1717	1720	<2.5	6.96	3333	<0.025	3142	7.08	91	33
		17-Nov-09	N	1717	1720	<5	8.12	3333	<0.05	3182	--	92	33
		24-Nov-09	N	1717	1720	<5	7	3333	<0.05	3054	7.1	105	35
	TEST 35	26-Aug-08	N	1844.1	1846.6	<20	95.985	2667	<0.05	2003	7.63	1540	769
		2-Sep-08	N	1844.1	1846.6	<20	27	2667	<0.05	2571	7.38	896	389
		9-Sep-08	N	1844.1	1846.6	<20	26	2667	<0.05	2601	7.62	750	255
		16-Sep-08	N	1844.1	1846.6	<20	28.44	2667	<0.05	2611	7.69	643	295
		23-Sep-08	N	1844.1	1846.6	<20	21	2667	<0.05	2575	7.98	532	225
		30-Sep-08	N	1844.1	1846.6	<20	21	2667	<0.05	2477	7.98	575	262
		7-Oct-08	N	1844.1	1846.6	<20	24	2667	<0.05	2489	7.93	469	205
		14-Oct-08	N	1844.1	1846.6	<20	23	2667	<0.05	2477	7.65	467	203
		21-Oct-08	N	1844.1	1846.6	<20	23	2667	<0.05	2493	7.67	387	162
		28-Oct-08	N	1844.1	1846.6	<20	24	2667	<0.05	2561	7.72	387	165
		4-Nov-08	N	1844.1	1846.6	<20	24	2667	<0.05	2496	7.83	357	153
		11-Nov-08	N	1844.1	1846.6	<20	18	2667	<0.05	2341	7.82	395	178
		18-Nov-08	N	1844.1	1846.6	<20	23	2667	<0.05	2493	7.77	326	122
		25-Nov-08	N	1844.1	1846.6	<5	20	2667	<0.05	2552	7.74	289	116
		2-Dec-08	N	1844.1	1846.6	<5	21	2667	<0.05	2550	7.74	300	109

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 35	9-Dec-08	N	1844.1	1846.6	<5	24	2667	<0.05	2575	7.8	259	127
		16-Dec-08	N	1844.1	1846.6	<5	20	2667	<0.05	2555	7.68	233	85
		23-Dec-08	N	1844.1	1846.6	<5	21	2667	<0.05	2575	7.71	234	87
		30-Dec-08	N	1844.1	1846.6	<5	25	2667	<0.05	2583	7.8	252	91
		6-Jan-09	N	1844.1	1846.6	<5	24	2667	<0.05	2576	7.71	240	83
		13-Jan-09	N	1844.1	1846.6	<5	21	2667	<0.05	2501	8.11	198	74
		20-Jan-09	N	1844.1	1846.6	<5	21	2667	<0.05	2500	8	202	68
		27-Jan-09	N	1844.1	1846.6	<5	21	2667	<0.05	2523	7.86	194	66
		3-Feb-09	N	1844.1	1846.6	<5	20	2667	<0.05	2395	7.74	218	76
		10-Feb-09	N	1844.1	1846.6	<5	19	2667	<0.05	2490	8.23	183	58
		17-Feb-09	N	1844.1	1846.6	<5	19	2667	<0.05	2560	7.74	188	61
		24-Feb-09	N	1844.1	1846.6	<5	18.96	2667	<0.05	2461	7.9	197	67
		3-Mar-09	N	1844.1	1846.6	<5	21.33	2667	<0.05	2456	7.88	195	59
		10-Mar-09	N	1844.1	1846.6	<5	20.145	2667	<0.05	2427	7.64	200	65
		17-Mar-09	N	1844.1	1846.6	<5	18.96	2667	<0.05	2472	7.68	183	63
		24-Mar-09	N	1844.1	1846.6	<5	18.96	2667	<0.05	2487	7.83	191	66
		31-Mar-09	N	1844.1	1846.6	<5	23.7	2667	<0.05	2436	7.63	190	62
		7-Apr-09	N	1844.1	1846.6	<5	17.775	2667	<0.05	2537	7.67	160	46
		14-Apr-09	N	1844.1	1846.6	<5	18.96	2667	<0.05	2482	7.82	166	54
		21-Apr-09	N	1844.1	1846.6	<5	23.7	2667	<0.05	2465	7.83	173	51
		28-Apr-09	N	1844.1	1846.6	<5	21.33	2667	<0.05	2491	7.64	181	57
		5-May-09	N	1844.1	1846.6	<5	17.775	2667	<0.05	2452	7.71	173	52
		12-May-09	N	1844.1	1846.6	<5	21.33	2667	<0.05	2379	7.79	190	60
		19-May-09	N	1844.1	1846.6	<5	17.775	2667	<0.05	2394	7.6	185	61
		26-May-09	N	1844.1	1846.6	<5	24.36	2667	<0.05	2407	7.8	228	77
		2-Jun-09	N	1844.1	1846.6	<5	17.4	2667	<0.05	2461	7.84	194	66
		9-Jun-09	N	1844.1	1846.6	<5	20.88	2667	<0.05	2494	7.84	195	67
		16-Jun-09	N	1844.1	1846.6	<5	23.2	2667	<0.05	2506	7.8	211	66
		23-Jun-09	N	1844.1	1846.6	<5	22.04	2667	<0.05	2406	7.7	228	74
		30-Jun-09	N	1844.1	1846.6	<5	18.56	2667	<0.05	2453	7.61	216	80
		7-Jul-09	N	1844.1	1846.6	<5	19.72	2667	<0.05	2323	7.93	284	104

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 35	14-Jul-09	N	1844.1	1846.6	<5	20.88	2667	<0.05	2423	8.08	257	91
		21-Jul-09	N	1844.1	1846.6	<5	20.88	2667	<0.05	2382	7.56	318	110
		28-Jul-09	N	1844.1	1846.6	<5	18.56	2667	<0.05	2314	7.81	287	117
		4-Aug-09	N	1844.1	1846.6	<5	20.88	2667	<0.05	2494	7.77	283	99
		11-Aug-09	N	1844.1	1846.6	<5	19.72	2667	<0.05	2396	7.25	308	111
		18-Aug-09	N	1844.1	1846.6	<5	19.72	2667	<0.05	2372	7.72	303	99
		25-Aug-09	N	1844.1	1846.6	<5	23.2	2667	--	2474	7.85	304	105
	TEST 36	26-Aug-08	N	1979.95	1982.94	<20	87.69	3333	<0.05	2355	6.99	1330	664
		2-Sep-08	N	1979.95	1982.94	<20	23	3333	<0.05	3085	7.21	1030	486
		9-Sep-08	N	1979.95	1982.94	<20	14	3333	<0.05	3034	7.25	955	392
		16-Sep-08	N	1979.95	1982.94	<20	11.85	3333	<0.05	2972	7.01	828	387
		23-Sep-08	N	1979.95	1982.94	<20	7	3333	<0.05	3092	7	690	319
		30-Sep-08	N	1979.95	1982.94	<20	7	3333	<0.05	3049	7	814	418
		7-Oct-08	N	1979.95	1982.94	5	<20	3333	<0.05	3038	8	746	390
		14-Oct-08	N	1979.95	1982.94	<20	15	3333	<0.05	3068	7.26	685	358
		21-Oct-08	N	1979.95	1982.94	<20	12	3333	<0.05	2913	7.62	674	331
		28-Oct-08	N	1979.95	1982.94	<20	18	3333	<0.05	3070	7.85	653	318
		4-Nov-08	N	1979.95	1982.94	<20	17	3333	<0.05	3097	7.68	710	348
		11-Nov-08	N	1979.95	1982.94	<20	15	3333	<0.05	3170	7.76	543	249
		18-Nov-08	N	1979.95	1982.94	<20	23	3333	<0.05	3071	7.57	602	281
		25-Nov-08	N	1979.95	1982.94	<5	18	3333	<0.05	3036	7.57	629	321
		2-Dec-08	N	1979.95	1982.94	<5	21	3333	<0.05	3124	7.61	590	273
		9-Dec-08	N	1979.95	1982.94	<5	17	3333	<0.05	3046	7.58	507	246
		16-Dec-08	N	1979.95	1982.94	<5	15	3333	<0.05	3221	7.48	435	184
		23-Dec-08	N	1979.95	1982.94	<5	15	3333	<0.05	3122	7.62	458	208
		30-Dec-08	N	1979.95	1982.94	<5	18	3333	<0.05	3161	7.45	433	200
		6-Jan-09	N	1979.95	1982.94	<5	17	3333	<0.05	3156	7.38	477	213
		13-Jan-09	N	1979.95	1982.94	<5	15	3333	<0.05	3091	7.4	424	198
		20-Jan-09	N	1979.95	1982.94	<5	14	3333	<0.05	3035	7.57	438	191
		27-Jan-09	N	1979.95	1982.94	<5	17	3333	<0.05	3130	7.41	432	211
		3-Feb-09	N	1979.95	1982.94	<5	14	3333	<0.05	2985	7.64	423	190

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 36	10-Feb-09	N	1979.95	1982.94	<5	17	3333	<0.05	3030	7.51	439	191
		17-Feb-09	N	1979.95	1982.94	<5	15	3333	<0.05	3159	7.41	393	163
		24-Feb-09	N	1979.95	1982.94	<5	17.775	3333	<0.05	3125	7.75	408	171
		3-Mar-09	N	1979.95	1982.94	<5	18.96	3333	<0.05	3204	7.62	423	182
		10-Mar-09	N	1979.95	1982.94	<5	21.33	3333	<0.05	3146	7.92	422	199
		17-Mar-09	N	1979.95	1982.94	<5	18.96	3333	<0.05	3152	7.84	442	188
		24-Mar-09	N	1979.95	1982.94	<5	14.22	3333	<0.05	2944	7.73	457	211
		31-Mar-09	N	1979.95	1982.94	<5	16.59	3333	<0.05	3248	7.84	341	147
		7-Apr-09	N	1979.95	1982.94	<5	14.22	3333	<0.05	3047	7.55	384	177
		14-Apr-09	N	1979.95	1982.94	<5	14.22	3333	<0.05	3057	7.95	394	187
		21-Apr-09	N	1979.95	1982.94	<5	11.85	3333	<0.05	3129	7.73	325	131
		28-Apr-09	N	1979.95	1982.94	<5	13.035	3333	<0.05	2992	7.79	370	157
		5-May-09	N	1979.95	1982.94	<5	13.035	3333	<0.05	2951	7.85	442	184
		12-May-09	N	1979.95	1982.94	<5	14.22	3333	<0.05	2818	7.53	485	210
		19-May-09	N	1979.95	1982.94	<5	14.22	3333	<0.05	2870	7.71	427	196
		26-May-09	N	1979.95	1982.94	<5	12.76	3333	<0.05	2979	7.69	486	216
		2-Jun-09	N	1979.95	1982.94	<5	12.76	3333	<0.05	2840	7.59	525	235
		9-Jun-09	N	1979.95	1982.94	<5	16.24	3333	<0.05	2857	7.57	490	233
		16-Jun-09	N	1979.95	1982.94	<5	13.92	3333	<0.05	3111	7.83	396	153
		23-Jun-09	N	1979.95	1982.94	<5	15.08	3333	<0.05	3055	7.7	526	238
		30-Jun-09	N	1979.95	1982.94	<5	13.92	3333	<0.05	2954	7.52	464	142
		7-Jul-09	N	1979.95	1982.94	<5	11.6	3333	<0.05	2900	7.64	547	255
		14-Jul-09	N	1979.95	1982.94	<5	12.76	3333	<0.05	2992	7.65	606	279
		21-Jul-09	N	1979.95	1982.94	<5	17.4	3333	<0.05	3115	7.5	597	255
		28-Jul-09	N	1979.95	1982.94	<5	12.76	3333	<0.05	3040	7.73	564	274
		4-Aug-09	N	1979.95	1982.94	<5	10.44	3333	<0.05	2862	7.5	566	247
		11-Aug-09	N	1979.95	1982.94	<5	9.28	3333	<0.05	2860	7.28	542	205
		18-Aug-09	N	1979.95	1982.94	<5	10.44	3333	<0.05	2893	7.84	623	269
		25-Aug-09	N	1979.95	1982.94	<5	10.44	3333	--	3043	7.62	608	263
	TEST 37	26-Aug-08	N	2053.81	2056.81	<20	74.655	1800	<0.05	1347	7.4	1600	849
		2-Sep-08	N	2053.81	2056.81	<20	14	1800	<0.05	1649	6.62	1310	654

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MG/L	milligrams per liter
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UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 37	9-Sep-08	N	2053.81	2056.81	<20	14	1800	<0.05	1716	7.22	1220	547
		16-Sep-08	N	2053.81	2056.81	<20	10.665	1800	<0.05	1680	7.13	674	321
		23-Sep-08	N	2053.81	2056.81	<20	17	1800	<0.05	1730	7.65	953	492
		30-Sep-08	N	2053.81	2056.81	<20	17	1800	<0.05	1603	7.65	732	372
		7-Oct-08	N	2053.81	2056.81	<20	12	1800	<0.05	1646	7.88	553	271
		14-Oct-08	N	2053.81	2056.81	<20	9	1800	<0.05	1651	7.3	455	208
		21-Oct-08	N	2053.81	2056.81	<20	12	1800	<0.05	1674	7.5	500	243
		28-Oct-08	N	2053.81	2056.81	<20	12	1800	<0.05	1590	7.25	402	198
		4-Nov-08	N	2053.81	2056.81	<20	11	1800	<0.05	1764	6.7	419	198
		11-Nov-08	N	2053.81	2056.81	<20	8	1800	<0.05	1612	7.77	425	204
		18-Nov-08	N	2053.81	2056.81	<20	13	1800	<0.05	1591	7.56	496	228
		25-Nov-08	N	2053.81	2056.81	<5	9	1800	<0.05	1633	7.58	355	152
		2-Dec-08	N	2053.81	2056.81	<5	14	1800	<0.05	1704	7.57	375	151
		9-Dec-08	N	2053.81	2056.81	<5	9	1800	<0.05	1698	7.87	431	211
		16-Dec-08	N	2053.81	2056.81	<5	6	1800	<0.05	1644	7.73	308	136
		23-Dec-08	N	2053.81	2056.81	<5	11	1800	<0.05	1583	7.69	375	159
		30-Dec-08	N	2053.81	2056.81	<5	8	1800	<0.05	1688	7.5	287	117
		6-Jan-09	N	2053.81	2056.81	<5	9	1800	<0.05	1653	7.61	354	150
		13-Jan-09	N	2053.81	2056.81	<5	7	1800	<0.05	1643	7.83	255	118
		20-Jan-09	N	2053.81	2056.81	<5	9	1800	<0.05	1589	7.55	337	152
		27-Jan-09	N	2053.81	2056.81	<5	8	1800	<0.05	1673	7.77	235	99
		3-Feb-09	N	2053.81	2056.81	<5	7	1800	<0.05	1667	7.72	257	107
		10-Feb-09	N	2053.81	2056.81	<5	6	1800	<0.05	1650	7.7	245	103
		17-Feb-09	N	2053.81	2056.81	<5	7	1800	<0.05	1751	7.45	221	89
		24-Feb-09	N	2053.81	2056.81	<5	7.11	1800	<0.05	1686	7.62	254	104
		3-Mar-09	N	2053.81	2056.81	<5	8.295	1800	<0.05	1635	7.6	288	112
		10-Mar-09	N	2053.81	2056.81	<5	7.11	1800	<0.05	1679	7.68	239	98
		17-Mar-09	N	2053.81	2056.81	<5	7.11	1800	<0.05	1593	7.92	281	114
		24-Mar-09	N	2053.81	2056.81	<5	8.295	1800	<0.05	1634	7.98	210	87
		31-Mar-09	N	2053.81	2056.81	<5	5.925	1800	<0.05	1642	7.67	220	97
		7-Apr-09	N	2053.81	2056.81	<5	7.11	1800	<0.05	1667	7.61	221	89

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	TEST 37	14-Apr-09	N	2053.81	2056.81	<5	8.295	1800	<0.05	1644	7.84	197	86
		21-Apr-09	N	2053.81	2056.81	<5	9.48	1800	<0.05	1685	7.65	238	98
		28-Apr-09	N	2053.81	2056.81	<5	9.48	1800	<0.05	1748	8.02	215	93
		5-May-09	N	2053.81	2056.81	<5	9.48	1800	<0.05	1645	8.08	235	90
		12-May-09	N	2053.81	2056.81	<5	7.11	1800	<0.05	1594	7.5	246	97
		19-May-09	N	2053.81	2056.81	<5	7.11	1800	<0.05	1429	7.74	277	115
		26-May-09	N	2053.81	2056.81	<5	8.12	1800	<0.05	1729	7.86	203	79
		2-Jun-09	N	2053.81	2056.81	<5	8.12	1800	<0.05	1602	7.9	325	140
		9-Jun-09	N	2053.81	2056.81	<5	6.96	1800	<0.05	1622	7.85	250	104
		16-Jun-09	N	2053.81	2056.81	<5	6.96	1800	<0.05	1545	7.89	279	113
		23-Jun-09	N	2053.81	2056.81	<5	6.96	1800	<0.05	1582	7.4	240	99
		30-Jun-09	N	2053.81	2056.81	<5	<5	1800	<0.05	1712	7.48	213	123
		7-Jul-09	N	2053.81	2056.81	<5	6.96	1800	<0.05	1404	7.65	375	162
		14-Jul-09	N	2053.81	2056.81	<5	<5	1800	<0.05	1498	7.68	339	152
		21-Jul-09	N	2053.81	2056.81	<5	8.12	1800	<0.05	1422	7.72	398	160
		28-Jul-09	N	2053.81	2056.81	<5	6.96	1800	<0.05	1500	7.88	372	173
		4-Aug-09	N	2053.81	2056.81	<5	5.8	1800	<0.05	1508	7.61	283	119
		11-Aug-09	N	2053.81	2056.81	<5	<5	1800	<0.05	1530	6.89	331	145
		18-Aug-09	N	2053.81	2056.81	<5	<5	1800	<0.05	1552	7.05	304	110
		25-Aug-09	N	2053.81	2056.81	<5	<5	1800	--	1667	6.95	314	131
RES-009	TEST 38	26-Aug-08	N	278.9	281.09	<20	46.215	4000	<0.05	2577	8.77	132	<10
		2-Sep-08	N	278.9	281.09	<20	40	4000	<0.05	3912	8.93	101	<10
		9-Sep-08	N	278.9	281.09	<20	43	4000	<0.05	3826	9.08	95	<10
		16-Sep-08	N	278.9	281.09	<20	37.92	4000	<0.05	3905	8.72	81	<10
		23-Sep-08	N	278.9	281.09	<20	32	4000	<0.05	3889	8.77	66	<10
		30-Sep-08	N	278.9	281.09	<20	32	4000	<0.05	3962	8.77	74	<10
		7-Oct-08	N	278.9	281.09	<20	36	4000	<0.05	3819	8.92	70	<10
		14-Oct-08	N	278.9	281.09	<20	34	4000	<0.05	4030	8.67	63	<10
		21-Oct-08	N	278.9	281.09	<20	32	4000	<0.05	3849	8.76	64	<10
		28-Oct-08	N	278.9	281.09	<20	34	4000	<0.05	3866	8.58	62	<10
		4-Nov-08	N	278.9	281.09	<20	31	4000	<0.05	3796	8.85	60	<10

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009	TEST 38	11-Nov-08	N	278.9	281.09	<20	31	4000	<0.05	3873	8.65	58	<10
		18-Nov-08	N	278.9	281.09	<20	24	4000	<0.05	3797	8.73	57	<10
		25-Nov-08	N	278.9	281.09	<5	25	4000	<0.05	3900	8.76	48	<10
		2-Dec-08	N	278.9	281.09	<5	28	4000	<0.05	3837	8.4	49	<10
		9-Dec-08	N	278.9	281.09	<5	23	4000	<0.05	3803	8.58	47	<10
		16-Dec-08	N	278.9	281.09	<5	27	4000	<0.05	3895	8.54	49	<10
		23-Dec-08	N	278.9	281.09	<5	26	4000	<0.05	3892	8.07	51	<10
	TEST 39	26-Aug-08	N	645.59	647.52	<20	103	3833	<0.05	2738	9.48	317	27
		2-Sep-08	N	645.59	647.52	<20	90	3833	0.05	3760	9.53	26	20
		9-Sep-08	N	645.59	647.52	<20	83	3833	<0.05	3695	9.33	232	<10
		16-Sep-08	N	645.59	647.52	<20	79.395	3833	<0.05	3731	9.23	208	11
		23-Sep-08	N	645.59	647.52	<20	75	3833	0.05	3212	9.2	192	14
		30-Sep-08	N	645.59	647.52	<20	75	3833	0.08	3704	9.2	177	<10
		7-Oct-08	N	645.59	647.52	<20	77	3833	0.07	3557	9.53	163	<10
		14-Oct-08	N	645.59	647.52	<20	71	3833	0.14	3827	9.24	160	<10
		21-Oct-08	N	645.59	647.52	<20	65	3833	0.08	3626	9.28	131	<10
		28-Oct-08	N	645.59	647.52	<20	58	3833	0.09	3708	9.29	118	<10
		4-Nov-08	N	645.59	647.52	<20	56	3833	0.1	3709	9.26	122	<10
		11-Nov-08	N	645.59	647.52	<20	55	3833	0.13	3716	9.14	114	<10
		18-Nov-08	N	645.59	647.52	<20	55	3833	0.08	3588	9.12	117	<10
		25-Nov-08	N	645.59	647.52	<5	47	3833	0.05	3731	9.1	102	<10
		2-Dec-08	N	645.59	647.52	<5	52	3833	0.09	3742	8.81	109	<10
		9-Dec-08	N	645.59	647.52	<5	57	3833	<0.05	3577	8.78	112	<10
		16-Dec-08	N	645.59	647.52	<5	47	3833	0.12	3740	8.96	96	<10
		23-Dec-08	N	645.59	647.52	<5	43	3833	0.07	3708	8.72	89	<10
	TEST 40	26-Aug-08	N	804.84	807	<20	41.475	1800	<0.05	1296	8.64	1250	430
		2-Sep-08	N	804.84	807	<20	36	1800	<0.05	1822	7.92	1810	787
		9-Sep-08	N	804.84	807	<20	31	1800	<0.05	1609	8.09	1800	700
		16-Sep-08	N	804.84	807	<20	29.625	1800	<0.05	1739	7.97	988	388
		23-Sep-08	N	804.84	807	<20	29	1800	<0.05	1373	7.84	1360	638
		30-Sep-08	N	804.84	807	<20	29	1800	<0.05	1361	7.84	1100	535

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009	TEST 40	7-Oct-08	N	804.84	807	<20	27	1800	<0.05	1397	7.66	1110	510
		14-Oct-08	N	804.84	807	<20	26	1800	<0.05	1464	7.89	893	417
		21-Oct-08	N	804.84	807	<20	23	1800	<0.05	1622	7.76	704	309
		28-Oct-08	N	804.84	807	<20	21	1800	<0.05	1575	8.14	622	287
		4-Nov-08	N	804.84	807	<20	20	1800	<0.05	1554	8.15	687	310
		11-Nov-08	N	804.84	807	<20	24	1800	<0.05	1584	7.38	617	300
		18-Nov-08	N	804.84	807	<20	27	1800	<0.05	1605	7.88	704	303
		25-Nov-08	N	804.84	807	<5	23	1800	<0.05	1551	7.95	551	229
		2-Dec-08	N	804.84	807	<5	20	1800	<0.05	1789	7.66	486	170
		9-Dec-08	N	804.84	807	<5	32	1800	<0.05	1526	7.87	780	366
		16-Dec-08	N	804.84	807	<5	26	1800	<0.05	1639	7.73	478	206
		23-Dec-08	N	804.84	807	<5	24	1800	<0.05	1602	7.75	497	220
	TEST 41	26-Aug-08	FD	804.84	807	<20	46.215	1800	<0.05	1383	7.74	1230	661
		2-Sep-08	FD	804.84	807	<20	36	1800	<0.05	1804	7.59	1940	860
		9-Sep-08	FD	804.84	807	<20	36	1800	<0.05	1625	8.26	1760	878
		16-Sep-08	FD	804.84	807	<20	32	1800	<0.05	1783	8.24	1100	508
		23-Sep-08	FD	804.84	807	<20	32	1800	<0.05	1468	7.95	1280	604
		30-Sep-08	FD	804.84	807	<20	32	1800	<0.05	1443	7.95	997	514
		7-Oct-08	FD	804.84	807	<20	31	1800	<0.05	1484	8.14	866	364
		14-Oct-08	FD	804.84	807	<20	27	1800	<0.05	1581	7.98	697	340
		21-Oct-08	FD	804.84	807	<20	25	1800	<0.05	1671	7.92	614	262
		28-Oct-08	FD	804.84	807	<20	24	1800	<0.05	1652	8.18	582	292
		4-Nov-08	FD	804.84	807	<20	24	1800	<0.05	1661	7.86	609	249
		11-Nov-08	FD	804.84	807	<20	19	1800	<0.05	1593	6.82	555	231
		18-Nov-08	FD	804.84	807	<20	25	1800	<0.05	1635	7.9	573	220
		25-Nov-08	FD	804.84	807	<5	24	1800	<0.05	1675	7.95	479	202
		2-Dec-08	FD	804.84	807	<5	25	1800	<0.05	1775	7.79	424	167
		9-Dec-08	FD	804.84	807	<5	24	1800	<0.05	1666	7.72	475	220
		16-Dec-08	FD	804.84	807	<5	23	1800	<0.05	1707	7.79	377	159
		23-Dec-08	FD	804.84	807	<5	23	1800	<0.05	1685	7.58	386	165
	TEST 42	26-Aug-08	N	994.67	997.67	<20	137.46	2333	0.06	853	7.8	4520	2260

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009	TEST 42	2-Sep-08	N	994.67	997.67	<20	57	2333	<0.05	2202	7.43	938	356
		9-Sep-08	N	994.67	997.67	<20	82	2333	<0.05	2282	8.36	475	131
		16-Sep-08	N	994.67	997.67	<20	29.625	2333	<0.05	2178	8.13	112	18
		23-Sep-08	N	994.67	997.67	<20	30	2333	<0.05	2201	8.94	88	14
		30-Sep-08	N	994.67	997.67	<20	30	2333	<0.05	2156	8.94	67	<10
		7-Oct-08	N	994.67	997.67	<20	25	2333	<0.05	2133	8.63	51	<10
		14-Oct-08	N	994.67	997.67	<20	24	2333	<0.05	2363	7.25	55	<10
		21-Oct-08	N	994.67	997.67	<20	24	2333	<0.05	2126	8.35	68	<10
		28-Oct-08	N	994.67	997.67	<20	24	2333	<0.05	2222	8.16	60	<10
		4-Nov-08	N	994.67	997.67	<20	26	2333	<0.05	2255	8.3	70	<10
		11-Nov-08	N	994.67	997.67	<20	20	2333	<0.05	2248	7.73	50	<10
		18-Nov-08	N	994.67	997.67	<20	30	2333	<0.05	1975	8.21	82	12
		25-Nov-08	N	994.67	997.67	<5	52	2333	0.05	1782	8.18	179	23
		2-Dec-08	N	994.67	997.67	<5	27	2333	<0.05	2165	7.97	67	<10
		9-Dec-08	N	994.67	997.67	<5	24	2333	<0.05	2258	8.12	54	<10
		16-Dec-08	N	994.67	997.67	<5	27	2333	<0.05	2213	7.98	67	<10
		23-Dec-08	N	994.67	997.67	<5	30	2333	<0.05	2100	6.94	79	<10
RES-009E	TEST 43	26-Aug-08	N	1351.03	1354.03	305.88	<20	3333	0.12	1715	4.62	4120	2190
		2-Sep-08	N	1351.03	1354.03	48	<20	3333	0.67	3372	4.94	492	180
		9-Sep-08	N	1351.03	1354.03	55	<20	3333	0.35	3223	4.48	302	115
		16-Sep-08	N	1351.03	1354.03	54.49	<20	3333	0.55	3302	4.74	260	125
		23-Sep-08	N	1351.03	1354.03	84	<20	3333	0.21	3124	4.44	260	119
		30-Sep-08	N	1351.03	1354.03	84	<20	3333	0.12	3142	4.44	245	95
		7-Oct-08	N	1351.03	1354.03	73	<20	3333	0.3	3130	4.44	225	89
		14-Oct-08	N	1351.03	1354.03	65	<20	3333	0.25	3195	4.24	234	99
		21-Oct-08	N	1351.03	1354.03	65	<20	3333	0.2	3145	4.12	235	95
		28-Oct-08	N	1351.03	1354.03	59	<20	3333	0.26	3182	4.36	216	83
		4-Nov-08	N	1351.03	1354.03	67	<20	3333	0.52	3160	4.15	250	111
		11-Nov-08	N	1351.03	1354.03	66	<20	3333	0.3	3169	4.16	236	103
		18-Nov-08	N	1351.03	1354.03	59	<20	3333	0.66	3151	4.12	221	80
		25-Nov-08	N	1351.03	1354.03	55	<5	3333	0.41	3123	4.19	199	81

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 43	2-Dec-08	N	1351.03	1354.03	74	<5	3333	0.2	3034	4.04	257	109
		9-Dec-08	N	1351.03	1354.03	74	<5	3333	0.35	3068	4.03	266	115
		16-Dec-08	N	1351.03	1354.03	66	<5	3333	0.23	3215	4.09	236	106
		23-Dec-08	N	1351.03	1354.03	62	<5	3333	0.25	3046	4.03	208	88
		30-Dec-08	N	1351.03	1354.03	57	<5	3333	0.28	3242	4.12	200	80
		6-Jan-09	N	1351.03	1354.03	70	<5	3333	2.09	3198	4.03	247	99
		13-Jan-09	N	1351.03	1354.03	56	<5	3333	1.79	3155	4.03	200	78
		20-Jan-09	N	1351.03	1354.03	63	<5	3333	1.56	3124	3.99	209	80
		27-Jan-09	N	1351.03	1354.03	67	<5	3333	1.92	3168	3.99	227	92
		3-Feb-09	N	1351.03	1354.03	80	<5	3333	2.49	3180	3.95	248	99
		10-Feb-09	N	1351.03	1354.03	67	<5	3333	2.42	3204	3.97	235	84
		17-Feb-09	N	1351.03	1354.03	50	<5	3333	1.68	3149	3.99	194	66
		24-Feb-09	N	1351.03	1354.03	75.04	<5	3333	1.58	3213	4	260	106
		3-Mar-09	N	1351.03	1354.03	59.295	<5	3333	1.6	3151	4.05	204	63
		10-Mar-09	N	1351.03	1354.03	64.96	<5	3333	1.86	3124	3.99	210	88
		17-Mar-09	N	1351.03	1354.03	82.88	<5	3333	2.73	3219	3.87	271	107
		24-Mar-09	N	1351.03	1354.03	82.88	<5	3333	4.32	3171	3.86	272	108
		31-Mar-09	N	1351.03	1354.03	67.2	<5	3333	3	3247	3.95	220	86
		7-Apr-09	N	1351.03	1354.03	50.4	<5	3333	2.34	3126	3.98	174	65
		14-Apr-09	N	1351.03	1354.03	73.92	<5	3333	2.78	3231	3.84	294	89
		21-Apr-09	N	1351.03	1354.03	60.48	<5	3333	2.67	3163	3.89	219	74
		28-Apr-09	N	1351.03	1354.03	61.6	<5	3333	2.27	3140	3.85	210	74
		5-May-09	N	1351.03	1354.03	74.975	<5	3333	2.08	3111	4.03	244	97
		12-May-09	N	1351.03	1354.03	88.48	<5	3333	3.19	3132	3.85	280	109
		19-May-09	N	1351.03	1354.03	77.28	<5	3333	3.36	3082	3.77	254	100
		26-May-09	N	1351.03	1354.03	89.6	<5	3333	4.34	3161	3.76	311	109
		2-Jun-09	N	1351.03	1354.03	64.96	<5	3333	3.39	3150	3.84	235	81
		9-Jun-09	N	1351.03	1354.03	88.48	<5	3333	4.14	3174	3.72	281	111
		16-Jun-09	N	1351.03	1354.03	82.88	<5	3333	3.43	3136	3.85	271	97
		23-Jun-09	N	1351.03	1354.03	72.8	<5	3333	3.83	3200	3.8	251	89
		30-Jun-09	N	1351.03	1354.03	105.28	<5	3333	5.68	3133	3.67	338	112

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 43	7-Jul-09	N	1351.03	1354.03	146.72	<5	3333	4.92	3013	3.85	399	181
		14-Jul-09	N	1351.03	1354.03	100.8	<5	3333	4.63	3077	3.69	319	105
		21-Jul-09	N	1351.03	1354.03	145.6	<5	3333	7.76	3130	3.59	468	174
		28-Jul-09	N	1351.03	1354.03	127.68	<5	3333	6.18	3098	3.72	380	148
		4-Aug-09	N	1351.03	1354.03	156.8	<5	3333	5.98	3041	3.71	430	173
		11-Aug-09	N	1351.03	1354.03	159.04	<5	3333	7.99	3105	3.64	455	180
		18-Aug-09	N	1351.03	1354.03	115.36	<5	3333	3.31	3125	3.65	374	131
		25-Aug-09	N	1351.03	1354.03	137.76	<5	3333	--	3163	3.59	433	138
	TEST 44	26-Aug-08	N	1510.74	1527.19	101.79	<20	4000	0.35	2849	4.56	886	473
		2-Sep-08	N	1510.74	1527.19	221	<20	4000	<0.05	3933	4.26	1030	487
		9-Sep-08	N	1510.74	1527.19	255	<20	4000	<0.05	3782	4.25	875	507
		16-Sep-08	N	1510.74	1527.19	252.66	<20	4000	<0.05	3883	4.34	397	437
		23-Sep-08	N	1510.74	1527.19	265	<20	4000	<0.05	3803	4.01	709	389
		30-Sep-08	N	1510.74	1527.19	265	<20	4000	<0.05	3814	4.01	758	338
		7-Oct-08	N	1510.74	1527.19	340	<20	4000	<0.05	3788	3.92	717	359
		14-Oct-08	N	1510.74	1527.19	227	<20	4000	<0.05	3882	3.85	557	300
		21-Oct-08	N	1510.74	1527.19	265	<20	4000	0.12	3769	3.66	678	347
		28-Oct-08	N	1510.74	1527.19	223	<20	4000	0.19	3903	3.89	551	250
		4-Nov-08	N	1510.74	1527.19	233	<20	4000	0.16	3793	3.64	619	296
		11-Nov-08	N	1510.74	1527.19	215	<20	4000	0.15	3836	3.62	595	284
		18-Nov-08	N	1510.74	1527.19	228	<20	4000	0.17	3753	3.58	604	264
		25-Nov-08	N	1510.74	1527.19	236	<5	4000	0.09	3846	3.58	601	292
		2-Dec-08	N	1510.74	1527.19	233	<5	4000	0.2	3738	3.47	531	248
		9-Dec-08	N	1510.74	1527.19	202	<5	4000	0.13	3891	3.43	566	259
		16-Dec-08	N	1510.74	1527.19	212	<5	4000	0.28	3809	3.5	547	245
		23-Dec-08	N	1510.74	1527.19	215	<5	4000	0.14	3867	3.4	593	263
		30-Dec-08	N	1510.74	1527.19	218	<5	4000	1.01	3889	3.42	599	259
		6-Jan-09	N	1510.74	1527.19	237	<5	4000	19.6	3811	3.41	612	247
		13-Jan-09	N	1510.74	1527.19	220	<5	4000	16.1	3847	3.38	603	266
		20-Jan-09	N	1510.74	1527.19	260	<5	4000	24.4	3816	3.31	694	294
		27-Jan-09	N	1510.74	1527.19	241	<5	4000	26.1	3830	3.28	667	276

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 44	3-Feb-09	N	1510.74	1527.19	234	<5	4000	25.4	3929	3.24	673	244
		10-Feb-09	N	1510.74	1527.19	279	<5	4000	36.1	3831	3.17	831	333
		17-Feb-09	N	1510.74	1527.19	284	<5	4000	36.8	3900	3.12	865	289
		24-Feb-09	N	1510.74	1527.19	336	<5	4000	49.8	3736	3.07	1020	369
		3-Mar-09	N	1510.74	1527.19	374.08	<5	4000	61.9	3747	3.04	1110	411
		10-Mar-09	N	1510.74	1527.19	404.32	<5	4000	73	3814	2.95	1150	503
		17-Mar-09	N	1510.74	1527.19	468.16	<5	4000	92.1	3861	2.92	1360	478
		24-Mar-09	N	1510.74	1527.19	591.36	<5	4000	135	3804	2.87	1520	634
		31-Mar-09	N	1510.74	1527.19	613.76	<5	4000	142	3848	2.79	1550	660
		7-Apr-09	N	1510.74	1527.19	647.36	<5	4000	163	3809	2.73	1700	743
		14-Apr-09	N	1510.74	1527.19	329.28	<5	4000	174	3656	2.76	1700	786
		21-Apr-09	N	1510.74	1527.19	370.72	<5	4000	202	3973	2.77	1910	860
		28-Apr-09	N	1510.74	1527.19	773	<5	4000	216	3861	2.74	1870	873
		5-May-09	N	1510.74	1527.19	750.4	<5	4000	208	3789	2.77	1960	905
		12-May-09	N	1510.74	1527.19	799.68	<5	4000	226	3797	2.72	1980	990
		19-May-09	N	1510.74	1527.19	840	<5	4000	249	3792	2.64	2130	943
		26-May-09	N	1510.74	1527.19	732.48	<5	4000	238	3727	2.72	2020	881
		2-Jun-09	N	1510.74	1527.19	750.4	<5	4000	233	3748	2.72	2000	779
		9-Jun-09	N	1510.74	1527.19	672	<5	4000	178	3787	2.71	1820	784
		16-Jun-09	N	1510.74	1527.19	725.76	<5	4000	230	3870	2.7	2060	771
		23-Jun-09	N	1510.74	1527.19	790.72	<5	4000	234	3756	2.68	2190	980
		30-Jun-09	N	1510.74	1527.19	904.96	<5	4000	284	3783	2.66	2290	990
		7-Jul-09	N	1510.74	1527.19	1060	<5	4000	321	3741	2.6	2560	1190
		14-Jul-09	N	1510.74	1527.19	1070	<5	4000	333	3694	2.56	2540	1250
		21-Jul-09	N	1510.74	1527.19	981.12	<5	4000	297	3689	2.6	2570	1150
		28-Jul-09	N	1510.74	1527.19	945.28	<5	4000	281	3707	2.65	2500	1080
		4-Aug-09	N	1510.74	1527.19	1010	<5	4000	302	3543	2.58	2410	1090
		11-Aug-09	N	1510.74	1527.19	898.24	<5	4000	265	3689	2.67	2420	1050
		18-Aug-09	N	1510.74	1527.19	936.32	<5	4000	269	3922	2.62	2510	992
		25-Aug-09	N	1510.74	1527.19	853.44	<5	4000	--	3863	2.66	2440	917
		1-Sep-09	N	1510.74	1527.19	824	<5	4000	263	3786	2.66	2190	929

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 44	8-Sep-09	N	1510.74	1527.19	797.44	<5	4000	230	3709	2.75	2230	899
		15-Sep-09	N	1510.74	1527.19	763.84	<5	4000	302	3766	2.82	2210	840
		22-Sep-09	N	1510.74	1527.19	676.48	<5	4000	0	3810	2.77	2080	723
		29-Sep-09	N	1510.74	1527.19	593.6	<5	4000	172	3653	2.8	1820	668
		6-Oct-09	N	1510.74	1527.19	515.2	<5	4000	152	3763	2.96	1750	562
		13-Oct-09	N	1510.74	1527.19	387.52	<5	4000	115	3736	2.63	1520	429
		20-Oct-09	N	1510.74	1527.19	396.48	<5	4000	123	3864	2.7	1560	438
		27-Oct-09	N	1510.74	1527.19	396.48	<2.5	4000	116	3857	2.71	1540	475
		3-Nov-09	N	1510.74	1527.19	407.68	<2.5	4000	122	3925	--	1600	457
		10-Nov-09	N	1510.74	1527.19	416.64	<2.5	4000	137	3828	2.71	1580	434
		17-Nov-09	N	1510.74	1527.19	481.6	<5	4000	149	3805	--	1750	567
		24-Nov-09	N	1510.74	1527.19	488	<5	4000	153	3810	2.7	1730	510
	TEST 45	26-Aug-08	FD	1510.74	1527.19	71.245	<20	1800	0.51	1475	4.37	602	597
		2-Sep-08	FD	1510.74	1527.19	149	<20	1800	<0.05	1791	4.24	676	314
		9-Sep-08	FD	1510.74	1527.19	171	<20	1800	<0.05	1530	4.25	575	303
		16-Sep-08	FD	1510.74	1527.19	130.56	<20	1800	0.11	1747	4.47	354	182
		23-Sep-08	FD	1510.74	1527.19	148	<20	1800	0.13	1519	4.14	403	197
		30-Sep-08	FD	1510.74	1527.19	148	<20	1800	0.08	1507	4.14	436	184
		7-Oct-08	FD	1510.74	1527.19	163	<20	1800	0.13	1543	4.18	364	156
		14-Oct-08	FD	1510.74	1527.19	138	<20	1800	0.07	1528	3.88	376	172
		21-Oct-08	FD	1510.74	1527.19	128	<20	1800	0.26	1632	3.75	348	153
		28-Oct-08	FD	1510.74	1527.19	106	<20	1800	0.38	1655	4.05	294	140
		4-Nov-08	FD	1510.74	1527.19	138	<20	1800	0.19	1605	3.81	404	143
		11-Nov-08	FD	1510.74	1527.19	124	<20	1800	0.26	1575	3.85	353	197
		18-Nov-08	FD	1510.74	1527.19	215	<20	1800	0.35	1584	3.78	357	150
		25-Nov-08	FD	1510.74	1527.19	100	<5	1800	0.41	1602	3.82	301	120
		2-Dec-08	FD	1510.74	1527.19	113	<5	1800	0.23	1489	3.66	341	130
		9-Dec-08	FD	1510.74	1527.19	86	<5	1800	0.41	1622	3.69	271	115
		16-Dec-08	FD	1510.74	1527.19	83	<5	1800	0.49	1686	3.79	247	94
		23-Dec-08	FD	1510.74	1527.19	88	<5	1800	0.41	1649	3.74	270	109
		30-Dec-08	FD	1510.74	1527.19	97	<5	1800	8.09	1642	3.74	303	111

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 45	6-Jan-09	FD	1510.74	1527.19	103	<5	1800	8.76	1500	3.7	325	127
		13-Jan-09	FD	1510.74	1527.19	84	<5	1800	7.79	1702	3.75	265	106
		20-Jan-09	FD	1510.74	1527.19	120	<5	1800	9.97	1544	3.72	359	133
		27-Jan-09	FD	1510.74	1527.19	91	<5	1800	9.93	1614	3.73	270	103
		3-Feb-09	FD	1510.74	1527.19	148	<5	1800	17.6	1526	3.61	430	159
		10-Feb-09	FD	1510.74	1527.19	97	<5	1800	11.2	1514	3.65	318	108
		17-Feb-09	FD	1510.74	1527.19	96	<5	1800	11.8	1503	3.64	314	116
	TEST 46	26-Aug-08	FD	1510.74	1527.19	37.06	<20	1500	1.09	1068	4.65	324	138
		2-Sep-08	FD	1510.74	1527.19	63	<20	1500	0.16	1437	4.49	321	126
		9-Sep-08	FD	1510.74	1527.19	72	<20	1500	<0.05	1446	4.42	263	124
		30-Sep-08	FD	1510.74	1527.19	113	<20	1500	0.16	1364	4.25	237	92
		7-Oct-08	FD	1510.74	1527.19	97	<20	1500	0.32	1351	4.23	219	87
		14-Oct-08	FD	1510.74	1527.19	67	<20	1500	0.52	1329	4.17	166	64
		21-Oct-08	FD	1510.74	1527.19	66	<20	1500	0.42	1359	4	190	71
		28-Oct-08	FD	1510.74	1527.19	36	<20	1500	1.22	1331	4.31	128	51
		4-Nov-08	FD	1510.74	1527.19	46	<20	1500	1.07	1387	4.04	154	49
		11-Nov-08	FD	1510.74	1527.19	55	<20	1500	0.82	1315	4.03	184	74
		18-Nov-08	FD	1510.74	1527.19	46	<20	1500	0.94	1333	4.05	147	49
		25-Nov-08	FD	1510.74	1527.19	36	<5	1500	1.65	1336	4.04	119	41
		2-Dec-08	FD	1510.74	1527.19	28	<5	1500	2.06	1330	4.43	112	31
		9-Dec-08	FD	1510.74	1527.19	30	<5	1500	1.96	1325	4	107	35
		16-Dec-08	FD	1510.74	1527.19	32	<5	1500	1.3	1365	4.06	111	37
		23-Dec-08	FD	1510.74	1527.19	31	<5	1500	2.04	1328	4.09	106	37
		30-Dec-08	FD	1510.74	1527.19	25	<5	1500	2.08	1330	4.13	101	28
		6-Jan-09	FD	1510.74	1527.19	26	<5	1500	2.28	1326	4.11	96	25
		13-Jan-09	FD	1510.74	1527.19	23	<5	1500	2.06	1330	4.15	89	27
		20-Jan-09	FD	1510.74	1527.19	26	<5	1500	2.17	1330	4.13	91	23
		27-Jan-09	FD	1510.74	1527.19	27	<5	1500	2.46	1330	4.05	96	28
		3-Feb-09	FD	1510.74	1527.19	27	<5	1500	2.17	1329	4.07	101	29
		10-Feb-09	FD	1510.74	1527.19	38	<5	1500	3.06	1327	4.07	125	40
		23-Sep-08	FD	1510.74	1527.19	113	<20	1500	0.19	1342	4.25	309	139

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 46	17-Feb-09	FD	1510.74	1527.19	27	<5	1500	2.51	1331	4.11	105	30
	TEST 47	26-Aug-08	N	1597.32	1599.88	3580	<20	2000	0.38	1380	3.6	4280	4330
		2-Sep-08	N	1597.32	1599.88	284	<20	2000	2.76	1952	3.8	656	307
		9-Sep-08	N	1597.32	1599.88	77	<20	2000	2.93	1967	3.83	479	251
		16-Sep-08	N	1597.32	1599.88	578	<20	2000	1.26	1897	3.87	1090	535
		23-Sep-08	N	1597.32	1599.88	383	<20	2000	2.63	1878	3.63	685	394
		30-Sep-08	N	1597.32	1599.88	383	<20	2000	1.95	1914	3.63	539	258
		7-Oct-08	N	1597.32	1599.88	1800	<20	2000	0.15	1789	3.57	2590	1850
		14-Oct-08	N	1597.32	1599.88	270	<20	2000	1.02	1896	3.66	638	286
		21-Oct-08	N	1597.32	1599.88	245	<20	2000	1.39	1824	3.85	595	281
		28-Oct-08	N	1597.32	1599.88	446	<20	2000	2.12	1946	3.62	911	459
		4-Nov-08	N	1597.32	1599.88	293	<20	2000	1.47	1808	3.58	692	305
	TEST 47S	11-Nov-08	N	1597.32	1599.88	368	<20	2000	0.51	1522	3.63	838	454
		18-Nov-08	N	1597.32	1599.88	130	<20	2000	3.53	1941	3.64	374	133
		25-Nov-08	N	1597.32	1599.88	93	<5	2000	5.01	1949	3.72	278	96
		2-Dec-08	N	1597.32	1599.88	105	<5	2000	19.1	1945	3.72	298	108
		9-Dec-08	N	1597.32	1599.88	111	<5	2000	20.2	1873	3.53	362	124
		16-Dec-08	N	1597.32	1599.88	111	<5	2000	21.4	1913	3.54	345	120
		23-Dec-08	N	1597.32	1599.88	123	<5	2000	23.5	1896	3.55	369	132
		30-Dec-08	N	1597.32	1599.88	123	<5	2000	25.5	1932	3.53	368	127
		6-Jan-09	N	1597.32	1599.88	130	<5	2000	32.7	1949	3.52	409	136
		13-Jan-09	N	1597.32	1599.88	108	<5	2000	24.8	1885	3.52	338	119
		20-Jan-09	N	1597.32	1599.88	130	<5	2000	26.9	1854	3.43	399	137
		27-Jan-09	N	1597.32	1599.88	131	<5	2000	29.7	1883	3.52	394	143
		3-Feb-09	N	1597.32	1599.88	141	<5	2000	34.1	1858	3.44	449	150
		10-Feb-09	N	1597.32	1599.88	149	<5	2000	31.3	1848	3.44	455	158
		17-Feb-09	N	1597.32	1599.88	133	<5	2000	34.9	1850	3.48	452	140
	TEST 48	26-Aug-08	N	1634.46	1637.47	924.335	<20	2000	<0.05	1301	4.37	3580	2250
		2-Sep-08	N	1634.46	1637.47	230	<20	2000	0.15	1801	4.58	775	335
		9-Sep-08	N	1634.46	1637.47	52	<20	2000	0.31	1914	4.76	179	81
		16-Sep-08	N	1634.46	1637.47	114.82	<20	2000	0.73	1926	4.78	350	147

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 48	23-Sep-08	N	1634.46	1637.47	100	<20	2000	0.64	1891	4.44	339	129
		30-Sep-08	N	1634.46	1637.47	100	<20	2000	0.08	1857	4.44	830	417
		7-Oct-08	N	1634.46	1637.47	436	<20	2000	0.12	1783	4.37	926	531
		14-Oct-08	N	1634.46	1637.47	275	<20	2000	0.06	1863	4.29	717	390
		21-Oct-08	N	1634.46	1637.47	112	<20	2000	0.09	1843	4.64	284	118
		28-Oct-08	N	1634.46	1637.47	219	<20	2000	0.21	1905	4.19	570	275
		4-Nov-08	N	1634.46	1637.47	307	<20	2000	<0.05	1724	4.11	730	403
	TEST 48S	11-Nov-08	N	1634.46	1637.47	334	<20	2000	<0.05	1365	4.25	803	466
		18-Nov-08	N	1634.46	1637.47	39	<20	2000	<0.05	1976	5.04	112	45
		25-Nov-08	N	1634.46	1637.47	68	<5	2000	<0.05	1963	4.23	200	88
		2-Dec-08	N	1634.46	1637.47	76	<5	2000	0.17	1869	4.25	221	91
		9-Dec-08	N	1634.46	1637.47	76	<5	2000	0.14	1923	4.18	215	96
		16-Dec-08	N	1634.46	1637.47	82	<5	2000	<0.05	1912	4.15	233	104
		23-Dec-08	N	1634.46	1637.47	85	<5	2000	<0.05	1908	4.13	241	110
	TEST 49	26-Aug-08	N	1739.63	1742.63	795.72	<20	2000	0.29	1278	4.39	1690	1150
		2-Sep-08	N	1739.63	1742.63	214	<20	2000	3.93	1914	4.02	540	240
		9-Sep-08	N	1739.63	1742.63	58	<20	2000	6.53	1944	4.92	136	58
		16-Sep-08	N	1739.63	1742.63	172.105	<20	2000	<0.05	1802	4.87	413	163
		23-Sep-08	N	1739.63	1742.63	107	<20	2000	<0.05	1894	4.88	223	89
		30-Sep-08	N	1739.63	1742.63	107	<20	2000	<0.05	1871	4.88	532	265
		7-Oct-08	N	1739.63	1742.63	457	<20	2000	<0.05	1809	5.06	883	493
		14-Oct-08	N	1739.63	1742.63	126	<20	2000	<0.05	1910	4.75	300	146
		21-Oct-08	N	1739.63	1742.63	85	<20	2000	<0.05	1878	4.92	189	75
		28-Oct-08	N	1739.63	1742.63	109	<20	2000	<0.05	1888	4.82	268	145
		4-Nov-08	N	1739.63	1742.63	544	<20	2000	<0.05	1564	4.31	1180	668
	TEST 49S	11-Nov-08	N	1739.63	1742.63	134	<20	2000	<0.05	1465	5.03	343	164
		18-Nov-08	N	1739.63	1742.63	98	<20	2000	0.14	1961	4.15	293	129
		25-Nov-08	N	1739.63	1742.63	37	<5	2000	<0.05	1952	4.9	77	31
		2-Dec-08	N	1739.63	1742.63	33	<5	2000	0.13	1878	4.88	92	34
		9-Dec-08	N	1739.63	1742.63	33	<5	2000	0.05	1884	4.85	90	38
		16-Dec-08	N	1739.63	1742.63	40	<5	2000	<0.05	1931	4.78	105	48

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 49S	23-Dec-08	N	1739.63	1742.63	40	<5	2000	0.15	1917	4.7	111	46
		30-Dec-08	N	1739.63	1742.63	33	<5	2000	0.27	1892	4.75	92	38
		6-Jan-09	N	1739.63	1742.63	39	<5	2000	0.37	1963	4.81	108	42
		13-Jan-09	N	1739.63	1742.63	39	<5	2000	0.22	1914	4.72	111	48
		20-Jan-09	N	1739.63	1742.63	42	<5	2000	0.19	1847	4.62	123	49
		27-Jan-09	N	1739.63	1742.63	38	<5	2000	0.3	1882	4.7	188	47
		3-Feb-09	N	1739.63	1742.63	49	<5	2000	0.4	1835	4.66	140	56
		10-Feb-09	N	1739.63	1742.63	49	<5	2000	1.9	1850	4.57	131	50
		17-Feb-09	N	1739.63	1742.63	55	<5	2000	1.8	1896	4.54	158	62
	TEST 50	26-Aug-08	N	1829.95	1832.48	791.32	<20	1000	80.8	731	4.34	4550	3450
		2-Sep-08	N	1829.95	1832.48	590	<20	1000	<0.05	909	4.31	1640	1030
		9-Sep-08	N	1829.95	1832.48	618	<20	1000	<0.05	866	4.42	1570	1090
		16-Sep-08	N	1829.95	1832.48	586.215	<20	1000	<0.05	828	4.35	1450	879
		23-Sep-08	N	1829.95	1832.48	789	<20	1000	<0.05	847	4.49	1620	1040
		30-Sep-08	N	1829.95	1832.48	789	<20	1000	<0.05	883	4.49	1390	884
		7-Oct-08	N	1829.95	1832.48	548	<20	1000	<0.05	872	4.54	1250	763
		14-Oct-08	N	1829.95	1832.48	382	<20	1000	<0.05	833	4.47	1020	631
		21-Oct-08	N	1829.95	1832.48	325	<20	1000	0.07	883	4.31	842	464
		28-Oct-08	N	1829.95	1832.48	232	<20	1000	<0.05	812	4.63	722	478
		4-Nov-08	N	1829.95	1832.48	221	<20	1000	0.18	932	4.35	635	318
		11-Nov-08	N	1829.95	1832.48	292	<20	1000	0.1	925	4.33	960	525
		18-Nov-08	N	1829.95	1832.48	348	<20	1000	<0.05	842	4.36	1010	561
		25-Nov-08	N	1829.95	1832.48	372	<5	1000	0.07	857	4.29	1030	413
		2-Dec-08	N	1829.95	1832.48	298	<5	1000	0.05	848	4.29	889	434
		9-Dec-08	N	1829.95	1832.48	328	<5	1000	<0.05	899	4.28	913	596
		16-Dec-08	N	1829.95	1832.48	322	<5	1000	<0.05	794	4.31	885	506
		23-Dec-08	N	1829.95	1832.48	310	<5	1000	<0.05	926	4.32	855	462
		30-Dec-08	N	1829.95	1832.48	295	<5	1000	<0.05	897	4.24	797	432
		6-Jan-09	N	1829.95	1832.48	291	<5	1000	<0.05	928	4.19	796	425
		13-Jan-09	N	1829.95	1832.48	317	<5	1000	<0.05	834	4.21	860	507
		20-Jan-09	N	1829.95	1832.48	353	<5	1000	<0.05	824	4.11	921	474

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V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 50	27-Jan-09	N	1829.95	1832.48	317	<5	1000	1.07	791	4.21	847	496
		3-Feb-09	N	1829.95	1832.48	330	<5	1000	0.45	826	4.21	872	512
		10-Feb-09	N	1829.95	1832.48	345	<5	1000	<0.05	828	4.21	919	496
		17-Feb-09	N	1829.95	1832.48	317	<5	1000	1.59	830	4.19	872	521
	TEST 51	26-Aug-08	N	1867.87	1844.35	28.92	52.14	4000	<0.05	1750	7.45	968	416
		2-Sep-08	N	1867.87	1844.35	<20	25	4000	<0.05	3710	7.42	920	422
		9-Sep-08	N	1867.87	1844.35	<20	28	4000	<0.05V1	3826	7.56	1150	601
		16-Sep-08	N	1867.87	1844.35	<20	28.44	4000	<0.05	3824	7.9	820	348
		23-Sep-08	N	1867.87	1844.35	<20	27	4000	<0.05	3779	7.7	1130	519
		30-Sep-08	N	1867.87	1844.35	<20	27	4000	<0.05	3729	7.7	864	432
		7-Oct-08	N	1867.87	1844.35	<20	33	4000	<0.05	3788	8	867	432
		14-Oct-08	N	1867.87	1844.35	<20	31	4000	<0.05	3755	7.77	793	430
		21-Oct-08	N	1867.87	1844.35	<20	26	4000	<0.05	3832	7.79	723	362
		28-Oct-08	N	1867.87	1844.35	<20	30	4000	<0.05	3819	7.87	999	511
		4-Nov-08	N	1867.87	1844.35	<20	30	4000	<0.05	3750	7.83	1020	551
		11-Nov-08	N	1867.87	1844.35	<20	30	4000	<0.05	3823	7.99	539	244
		18-Nov-08	N	1867.87	1844.35	<20	30	4000	<0.05	3751	7.93	695	342
		25-Nov-08	N	1867.87	1844.35	<5	31	4000	<0.05	3805	7.78	680	339
		2-Dec-08	N	1867.87	1844.35	<5	41	4000	<0.05	3782	8.04	736	358
		9-Dec-08	N	1867.87	1844.35	<5	32	4000	<0.05	3651	7.91	728	388
		16-Dec-08	N	1867.87	1844.35	<5	30	4000	<0.05	3767	8.04	471	207
		23-Dec-08	N	1867.87	1844.35	<5	28	4000	<0.05	3656	7.8	596	300
		30-Dec-08	N	1867.87	1844.35	<5	31	4000	<0.05	3840	7.83	553	281
		6-Jan-09	N	1867.87	1844.35	<5	26	4000	<0.05	3834	7.84	610	295
		13-Jan-09	N	1867.87	1844.35	<5	30	4000	<0.05	3790	7.97	489	225
		20-Jan-09	N	1867.87	1844.35	<5	34	4000	<0.05	3792	7.94	649	303
		27-Jan-09	N	1867.87	1844.35	<5	28	4000	<0.05	3770	7.92	479	191
		3-Feb-09	N	1867.87	1844.35	<5	32	4000	<0.05	3838	7.89	676	334
		10-Feb-09	N	1867.87	1844.35	<5	30	4000	<0.05	3759	8.02	444	188
		17-Feb-09	N	1867.87	1844.35	<5	31	4000	<0.05	3858	7.96	468	201
		24-Feb-09	N	1867.87	1844.35	<5	30.81	4000	<0.05	3737	7.81	648	278

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 51	3-Mar-09	N	1867.87	1844.35	<5	33.18	4000	<0.05	3561	7.76	659	302
		10-Mar-09	N	1867.87	1844.35	<5	33.18	4000	<0.05	3656	7.72	645	316
		17-Mar-09	N	1867.87	1844.35	<5	37.92	4000	<0.05	3686	7.83	606	279
		24-Mar-09	N	1867.87	1844.35	<5	30.81	4000	<0.05	3821	7.9	512	234
		31-Mar-09	N	1867.87	1844.35	<5	33.18	4000	<0.05	3733	7.58	464	201
		7-Apr-09	N	1867.87	1844.35	<5	35.55	4000	<0.05	3733	7.75	525	243
		14-Apr-09	N	1867.87	1844.35	<5	33.18	4000	<0.05	3728	7.72	505	256
		21-Apr-09	N	1867.87	1844.35	<5	33.18	4000	<0.05	3764	7.76	476	192
		28-Apr-09	N	1867.87	1844.35	<5	34.365	4000	<0.05	3770	7.69	465	205
		5-May-09	N	1867.87	1844.35	<5	35.55	4000	<0.05	3804	7.78	588	252
		12-May-09	N	1867.87	1844.35	<5	37.92	4000	<0.05	3667	7.68	616	237
		19-May-09	N	1867.87	1844.35	<5	34.365	4000	<0.05	3683	7.67	505	220
		26-May-09	N	1867.87	1844.35	<5	31.32	4000	<0.05	3769	7.69	454	172
		2-Jun-09	N	1867.87	1844.35	<5	30.16	4000	<0.05	3777	7.63	596	273
		9-Jun-09	N	1867.87	1844.35	<5	33.64	4000	<0.05	3637	7.54	591	267
		16-Jun-09	N	1867.87	1844.35	<5	32.48	4000	<0.05	3681	7.73	558	247
		23-Jun-09	N	1867.87	1844.35	<5	32.48	4000	<0.05	3736	7.75	629	255
		30-Jun-09	N	1867.87	1844.35	<5	27.84	4000	<0.05	3791	7.56	514	227
		7-Jul-09	N	1867.87	1844.35	<5	32.48	4000	<0.05	3496	7.53	862	424
		14-Jul-09	N	1867.87	1844.35	<5	30.16	4000	<0.05	3650	7.61	616	267
		21-Jul-09	N	1867.87	1844.35	<5	29	4000	<0.05	3683	7.68	686	303
		28-Jul-09	N	1867.87	1844.35	<5	27.84	4000	<0.05	3845	7.74	574	244
		4-Aug-09	N	1867.87	1844.35	<5	29	4000	<0.05	3859	7.47	568	221
		11-Aug-09	N	1867.87	1844.35	<5	30.16	4000	<0.05	3826	7.58	615	270
		18-Aug-09	N	1867.87	1844.35	<5	26.68	4000	<0.05	3742	7.52	782	346
		25-Aug-09	N	1867.87	1844.35	<5	27.84	4000	--	3832	7.63	774	361
	TEST 52	26-Aug-08	N	1899	1901.88	<20	184.86	1500	<0.05	1123	8.02	3410	2250
		2-Sep-08	N	1899	1901.88	<20	100	1500	<0.05	1428	7.21	1580	835
		9-Sep-08	N	1899	1901.88	<20	95	1500	<0.05V1	1471	7.97	727	226
		16-Sep-08	N	1899	1901.88	<20	56.88	1500	<0.05	1381	7.98	1340	625
		23-Sep-08	N	1899	1901.88	<20	40	1500	<0.05	1369	7.64	907	401

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 52	30-Sep-08	N	1899	1901.88	<20	40	1500	<0.05	1375	7.64	1240	591
		7-Oct-08	N	1899	1901.88	<20	97	1500	<0.05	1395	8.35	896	366
		14-Oct-08	N	1899	1901.88	<20	89	1500	<0.05	1405	8.09	926	427
		21-Oct-08	N	1899	1901.88	<20	77	1500	<0.05	1300	7.96	1440	756
		28-Oct-08	N	1899	1901.88	<20	107	1500	<0.05	1275	8.14	1630	1020
		4-Nov-08	N	1899	1901.88	<20	102	1500	<0.05	1402	8.2	852	345
	TEST 52S	11-Nov-08	N	1899	1901.88	<20	41	1500	<0.05	1165	7.55	502	206
		18-Nov-08	N	1899	1901.88	<20	25	1500	<0.05	1470	7.64	276	100
		25-Nov-08	N	1899	1901.88	<5	24	1500	0.13	1386	7.41	273	102
		2-Dec-08	N	1899	1901.88	<5	23	1500	<0.05	1374	6.87	244	87
		9-Dec-08	N	1899	1901.88	<5	17	1500	<0.05	1449	7.18	237	90
		16-Dec-08	N	1899	1901.88	<5	18	1500	<0.05	1428	7.5	218	85
		23-Dec-08	N	1899	1901.88	<5	15	1500	<0.05	1438	7.54	219	89
		30-Dec-08	N	1899	1901.88	<5	17	1500	<0.05	1436	7.41	229	90
		6-Jan-09	N	1899	1901.88	<5	15	1500	<0.05	1447	7.17	217	84
		13-Jan-09	N	1899	1901.88	<5	17	1500	<0.05	1348	7.22	209	90
		20-Jan-09	N	1899	1901.88	<5	15	1500	<0.05	1320	7.23	302	116
		27-Jan-09	N	1899	1901.88	<5	15	1500	0.09	1429	7.17	227	86
		3-Feb-09	N	1899	1901.88	<5	14	1500	<0.05	1362	7.26	237	90
		10-Feb-09	N	1899	1901.88	<5	14	1500	<0.05	1421	7.32	200	77
		17-Feb-09	N	1899	1901.88	<5	14	1500	0.11	1418	7.22	217	63
	TEST 53	26-Aug-08	N	1984.74	1987.74	119.475	<20	2000	38.8	1397	4.19	2790	2090
		2-Sep-08	N	1984.74	1987.74	66	<20	2000	0.57	2029	4.88	2380	1620
		9-Sep-08	N	1984.74	1987.74	200	<20	2000	<0.05V1	1866	5.04	2550	1920
		16-Sep-08	N	1984.74	1987.74	205.105	<20	2000	<0.05	1825	5.44	2680	1900
		23-Sep-08	N	1984.74	1987.74	294	<20	2000	<0.05	1841	5.35	2550	1840
		30-Sep-08	N	1984.74	1987.74	294	<20	2000	<0.05	2025	5.35	2350	1640
		7-Oct-08	N	1984.74	1987.74	254	6	2000	<0.05	1868	5.58	2510	1820
		14-Oct-08	N	1984.74	1987.74	153	<20	2000	<0.05	1823	5.72	2360	1730
		21-Oct-08	N	1984.74	1987.74	118	<20	2000	<0.05	1896	5.71	2300	1460
		28-Oct-08	N	1984.74	1987.74	165	<20	2000	<0.05	1878	5.3	2420	2000

--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 53	4-Nov-08	N	1984.74	1987.74	127	7	2000	<0.05	1958	5.89	2380	1660
		11-Nov-08	N	1984.74	1987.74	113	<20	2000	<0.05	1969	5.44	2230	1660
		18-Nov-08	N	1984.74	1987.74	118	6	2000	<0.05	1857	5.63	2440	1570
		25-Nov-08	N	1984.74	1987.74	55	<5	2000	<0.05	2022	5.79	2240	1530
		2-Dec-08	N	1984.74	1987.74	99	<5	2000	<0.05	1744	5.56	2130	1390
		9-Dec-08	N	1984.74	1987.74	112	<5	2000	<0.05	1851	5.46	2100	1380
		16-Dec-08	N	1984.74	1987.74	95	<5	2000	<0.05	1964	5.57	1740	1170
		23-Dec-08	N	1984.74	1987.74	103	<5	2000	<0.05	1886	5.47	1670	1100
		30-Dec-08	N	1984.74	1987.74	79	<5	2000	<0.05	1981	5.53	1500	891
		6-Jan-09	N	1984.74	1987.74	97	<5	2000	<0.05	1836	5.81	1380	819
		13-Jan-09	N	1984.74	1987.74	89	<5	2000	<0.05	1573	5.48	1140	626
		20-Jan-09	N	1984.74	1987.74	102	<5	2000	<0.05	1737	5.42	1320	773
		27-Jan-09	N	1984.74	1987.74	93	<5	2000	<0.05	1808	5.49	1390	882
		3-Feb-09	N	1984.74	1987.74	99	<5	2000	<0.05	1801	5.53	1270	815
		10-Feb-09	N	1984.74	1987.74	98	<5	2000	<0.05	1708	5.5	1270	805
		17-Feb-09	N	1984.74	1987.74	97	<5	2000	<0.05	1956	5.37	1130	724
	TEST 54	26-Aug-08	N	2056.38	2075	<20	21.33	4000	<0.05	3026	7.11	2670	1960
		2-Sep-08	N	2056.38	2075	<20	<20	4000	<0.05	3812	5.39	2400	1410
		9-Sep-08	N	2056.38	2075	<20	5	4000	<0.05V1	3906	7.39	2400	1740
		16-Sep-08	N	2056.38	2075	<20	8.295	4000	<0.05	3895	7.41	2480	1610
		23-Sep-08	N	2056.38	2075	<20	14	4000	<0.05	3869	7.56	2000	1280
		30-Sep-08	N	2056.38	2075	<20	14	4000	<0.05	3687	7.56	2350	1520
		7-Oct-08	N	2056.38	2075	7	<20	4000	<0.05	3689	7.15	2050	1360
		14-Oct-08	N	2056.38	2075	<20	7	4000	<0.05	3873	7.05	2140	1450
		21-Oct-08	N	2056.38	2075	<20	<20	4000	<0.05	3793	6.75	2000	1310
		28-Oct-08	N	2056.38	2075	<20	7	4000	<0.05	3908	7.06	2230	1410
		4-Nov-08	N	2056.38	2075	<20	11	4000	<0.05	3778	7.64	2200	1500
		11-Nov-08	N	2056.38	2075	<20	<20	4000	<0.05	3526	6.42	2030	1420
		18-Nov-08	N	2056.38	2075	7	<20	4000	<0.05	3817	6.16	2010	1220
		25-Nov-08	N	2056.38	2075	13	<5	4000	<0.05	3816	6.11	1840	1060
		2-Dec-08	N	2056.38	2075	6	<5	4000	<0.05	3776	6.1	1970	1370

--	Not requested.
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MLS	milliliters
UMHOS/CM	micromhos per centimeter
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B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
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N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX F
HUMIDITY CELL TESTING RESULTS

				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 54	9-Dec-08	N	2056.38	2075	<5	<5	4000	<0.05	3667	5.85	1880	1290
		16-Dec-08	N	2056.38	2075	5	<5	4000	<0.05	3917	5.98	1560	1050
		23-Dec-08	N	2056.38	2075	<5	<5	4000	<0.05	3784	6.16	1950	1350
		30-Dec-08	N	2056.38	2075	9	<5	4000	<0.05	3854	5.97	1880	1200
		6-Jan-09	N	2056.38	2075	11	<5	4000	<0.05	3889	6.1	1700	995
		13-Jan-09	N	2056.38	2075	9	<5	4000	<0.05	3694	5.96	1810	943
		20-Jan-09	N	2056.38	2075	<5	<5	4000	<0.05	3846	5.97	1520	991
		27-Jan-09	N	2056.38	2075	12	<5	4000	<0.05	3895	5.91	1840	1200
		3-Feb-09	N	2056.38	2075	9	<5	4000	<0.05	3688	5.98	1890	1250
		10-Feb-09	N	2056.38	2075	10	<5	4000	<0.05	3800	5.98	1930	1310
		17-Feb-09	N	2056.38	2075	11	<5	4000	<0.05	3895	5.81	1900	1260
		24-Feb-09	N	2056.38	2075	9.625	<5	4000	<0.05	3801	6.38	1980	1240
		3-Mar-09	N	2056.38	2075	7.32	<5	4000	<0.05	3716	6.37	1920	1110
		10-Mar-09	N	2056.38	2075	7.32	<5	4000	<0.05	3646	6.42	1900	1220
		17-Mar-09	N	2056.38	2075	5.08	<5	4000	<0.05	3794	6.3	1920	1220
		24-Mar-09	N	2056.38	2075	8.44	<5	4000	<0.05	3724	6.37	2030	1470
		31-Mar-09	N	2056.38	2075	7.385	<5	4000	<0.05	3777	6.43	1960	1350
		7-Apr-09	N	2056.38	2075	5.145	<5	4000	<0.05	3821	6.24	1850	1250
		14-Apr-09	N	2056.38	2075	6.265	<5	4000	<0.05	3833	6.27	1890	1090
		21-Apr-09	N	2056.38	2075	6.265	<5	4000	<0.05	3763	6.28	2000	1220
		28-Apr-09	N	2056.38	2075	8.505	<5	4000	<0.05	3697	6.26	1830	1130
		5-May-09	N	2056.38	2075	9.625	<5	4000	<0.05	3770	6.24	2120	1250
		12-May-09	N	2056.38	2075	8.44	<5	4000	<0.05	3793	6.3	1960	1160
		19-May-09	N	2056.38	2075	7.385	<5	4000	<0.05	3670	6.2	2080	1410
		26-May-09	N	2056.38	2075	6.36	<5	4000	<0.05	3707	6.29	2100	1300
		2-Jun-09	N	2056.38	2075	7.44	6.96	4000	<0.05	3801	6.18	1970	1260
		9-Jun-09	N	2056.38	2075	9.72	5.8	4000	<0.05	3789	6.31	1780	1080
		16-Jun-09	N	2056.38	2075	9.76	<5	4000	<0.05	3852	6.27	2070	1310
		23-Jun-09	N	2056.38	2075	10.84	5.8	4000	<0.05	3755	6.2	2160	1360
		30-Jun-09	N	2056.38	2075	9.76	<5	4000	<0.05	3734	6.15	2090	1400
		7-Jul-09	N	2056.38	2075	5.2	<5	4000	<0.05	3864	6.12	1710	1010

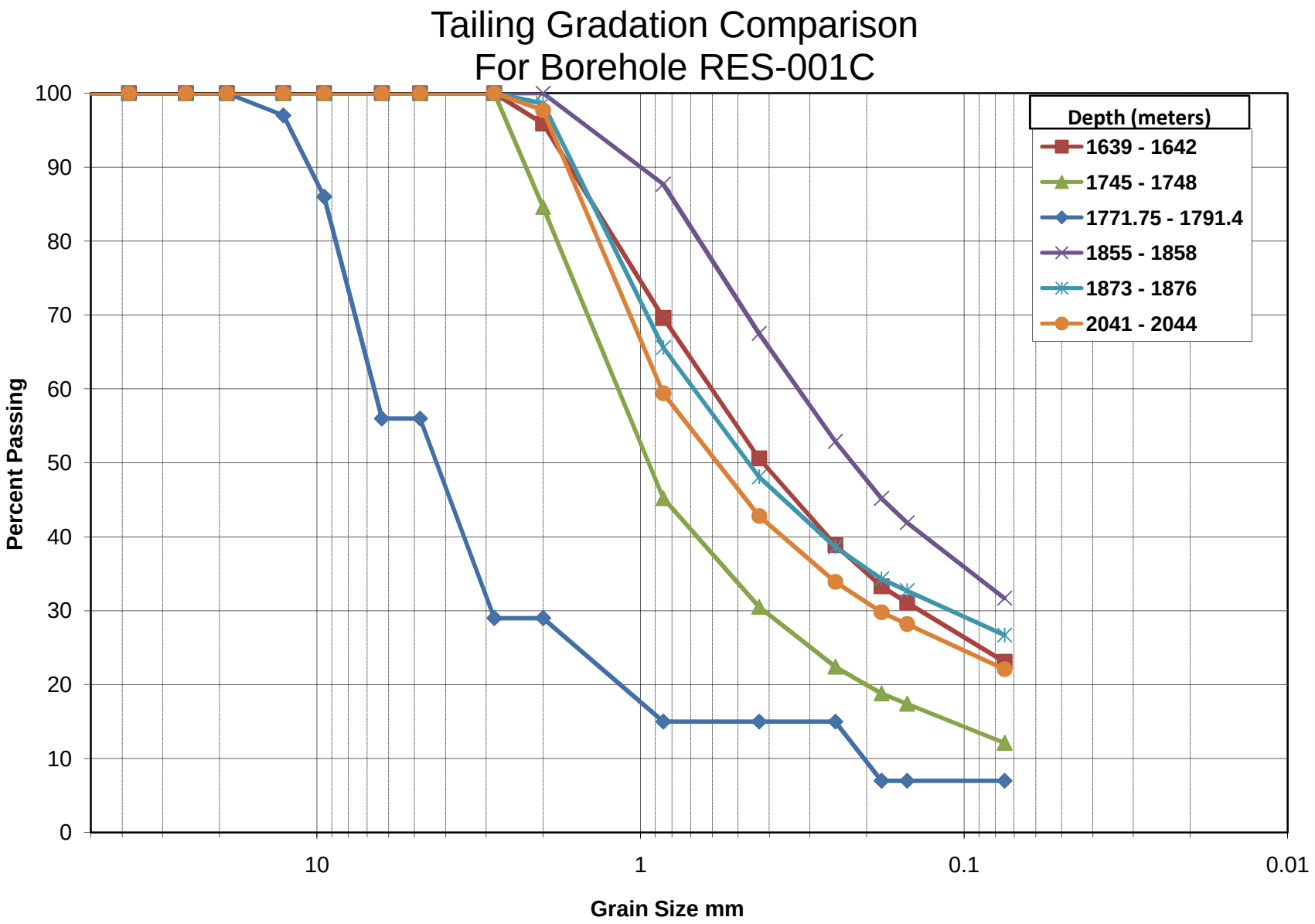
--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

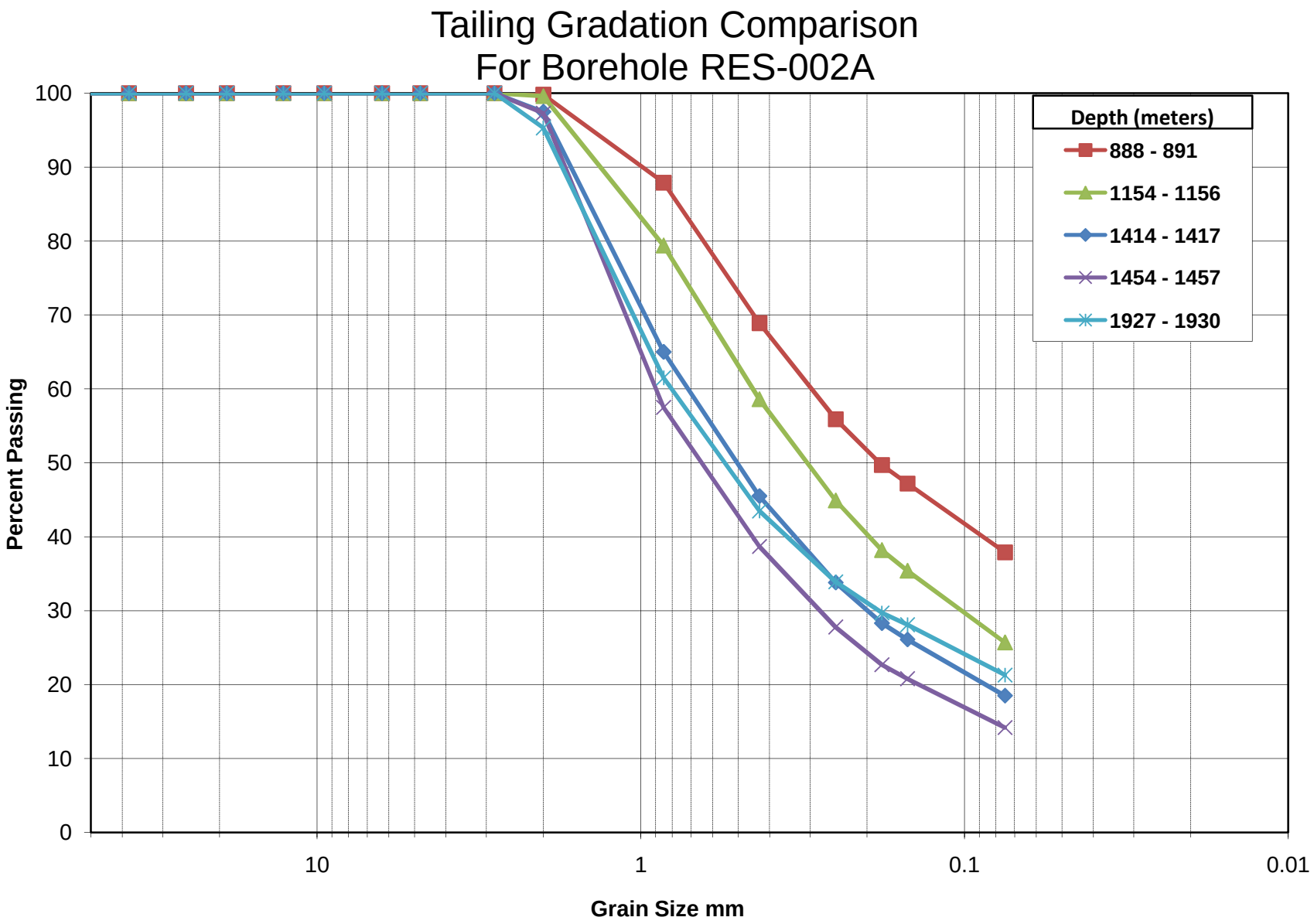
APPENDIX F
HUMIDITY CELL TESTING RESULTS

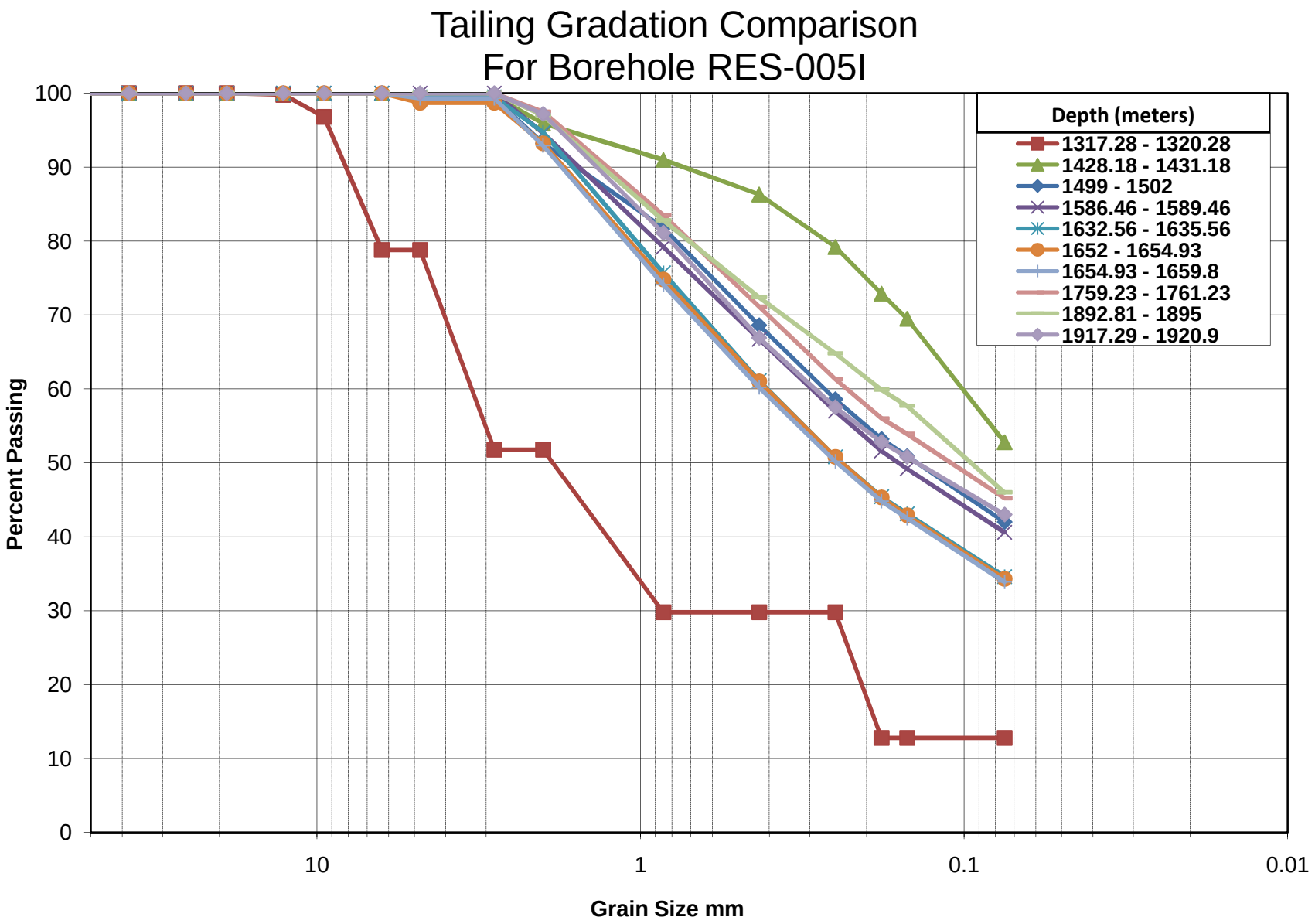
				Depth		CES							
Hole ID	Sample ID	Date Sampled	Type	Top	Bottom	HCT Acidity, Total (mg/l as CaCO3)	Alkalinity, Total (mg/l as CaCO3)	Water added to HCT MLS	Total Iron MG/L	Leachate Recovered MLS	pH pH Units	Specific conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	TEST 54	14-Jul-09	N	2056.38	2075	7.52	<5	4000	<0.05	3799	6.11	1760	1070
		21-Jul-09	N	2056.38	2075	13	6.96	4000	<0.05	3719	6.11	2330	1420
		28-Jul-09	N	2056.38	2075	9.72	<5	4000	<0.05	3669	6.1	1800	1160
		4-Aug-09	N	2056.38	2075	13.08	<5	4000	<0.05	3691	6	2150	1430
		11-Aug-09	N	2056.38	2075	10.8	<5	4000	<0.05	3706	6.05	2110	1330
		18-Aug-09	N	2056.38	2075	11.96	<5	4000	<0.05	3685	6.06	2160	1320
		25-Aug-09	N	2056.38	2075	14.2	<5	4000	--	3847	6.22	1000	1240
		1-Sep-09	N	2056.38	2075	26	<5	4000	<0.05	3816	5.45	1570	984
		8-Sep-09	N	2056.38	2075	22.12	<5	4000	<0.05	3793	5.55	1990	1200
		15-Sep-09	N	2056.38	2075	16.48	<5	4000	<0.05	3761	5.8	1960	1270
		22-Sep-09	N	2056.38	2075	18.76	<5	4000	0	3799	5.78	1750	1140
		29-Sep-09	N	2056.38	2075	14.24	<5	4000	<0.05	3735	5.69	1520	936
		6-Oct-09	N	2056.38	2075	13.12	<5	4000	<0.05	3582	5.76	1530	935
		13-Oct-09	N	2056.38	2075	10.92	<5	4000	<0.05	3870	6.08	1530	818
		20-Oct-09	N	2056.38	2075	10.88	<5	4000	<0.05	3872	5.9	1580	890
		27-Oct-09	N	2056.38	2075	9.72	<2.5	4000	<0.025	3809	5.95	1390	807
		3-Nov-09	N	2056.38	2075	9.76	<2.5	4000	<0.025	3878	5.89	1570	911
		10-Nov-09	N	2056.38	2075	10.88	<2.5	4000	<0.025	3819	5.94	1760	1290
		17-Nov-09	N	2056.38	2075	12.04	<5	4000	<0.05	3896	--	1770	1060
		24-Nov-09	N	2056.38	2075	9.72	<5	4000	<0.05	3848	6.1	1420	789
		1-Dec-09	N	2056.38	2075	10.88	<5	4000	<0.05	3823	6.06	1590	974
		8-Dec-09	N	2056.38	2075	14.24	<5	4000	<0.05	3732	6.22	1430	801
		15-Dec-09	N	2056.38	2075	12	<5	4000	<0.05	3805	6.38	1410	759
		22-Dec-09	N	2056.38	2075	9.72	<5	4000	<0.05	3856	6.36	1600	1020
		29-Dec-09	N	2056.38	2075	12	<5	4000	<0.05	3846	6.16	1300	832
		5-Jan-10	N	2056.38	2075	12	<5	4000	<0.05	3850	6.25	1630	980
		12-Jan-10	N	2056.38	2075	9.76	<5	4000	<0.05	3846	6.3	1240	603
		19-Jan-10	N	2056.38	2075	8.64	<5	4000	<0.05	3813	6.62	1370	694
		26-Jan-10	N	2056.38	2075	10.92	<5	4000	<0.05	3831	6.16	1770	1120

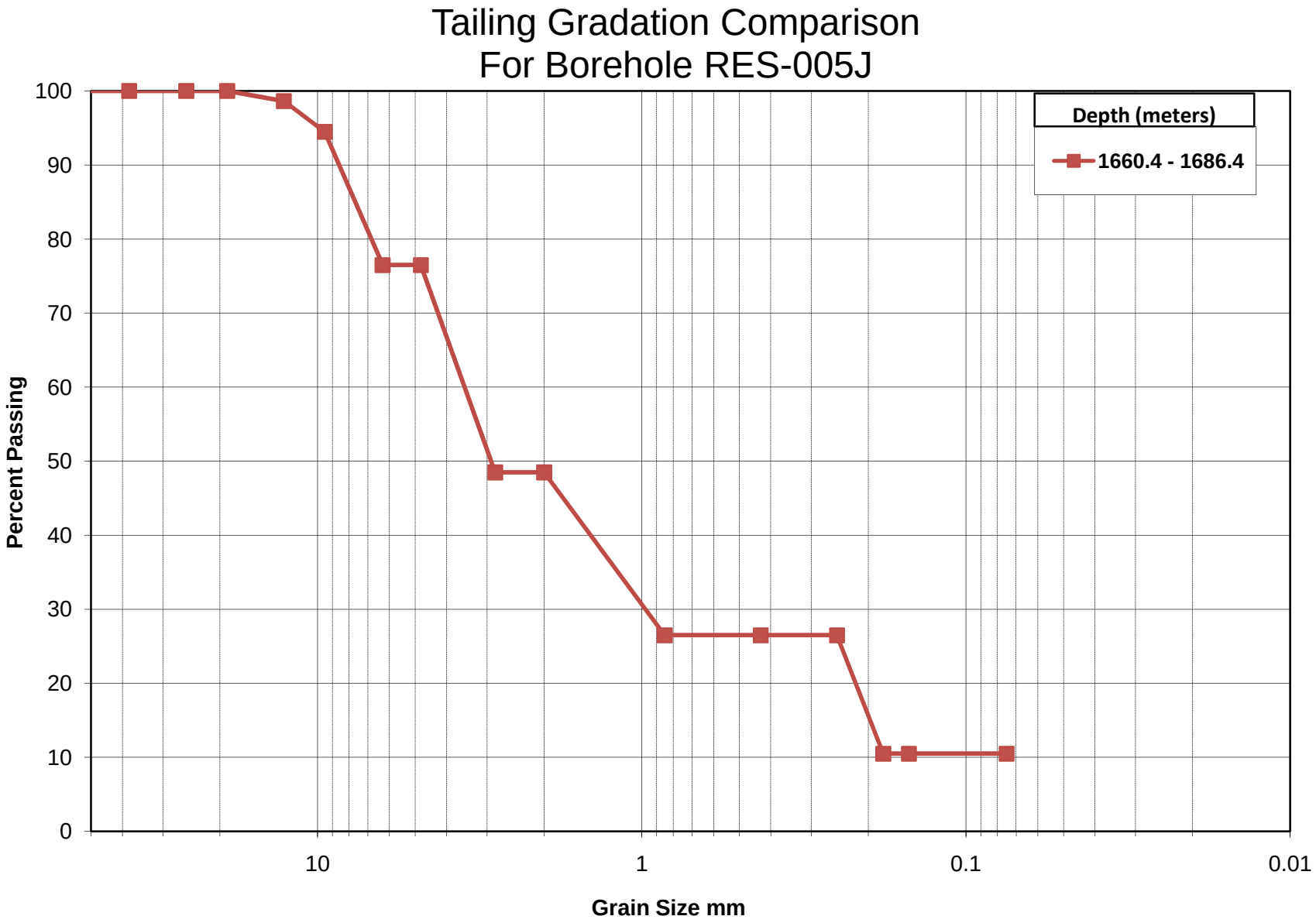
--	Not requested.
MG/L	milligrams per liter
MLS	milliliters
UMHOS/CM	micromhos per centimeter
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above method acceptance criteria.
B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10X above the concentration found in the method blank.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
F	Analyte was positively identified but he reported concentrations estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
FD	Field duplicate.
H3	Sample analysis requested past holding time.
L1	The associated blank spike recovery was above the laboratory acceptance limits.
M1	Matrix spike recovery was high. If not other flags, the method control sample recovery was acceptable.
M2	Matrix spike recovery was low. If not other flags, the method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
N	Normal.
R1	Relative percent difference exceeded the method control limit.
S	Sample was converted from cell to shoebox.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample but the sample was not reanalyzed.

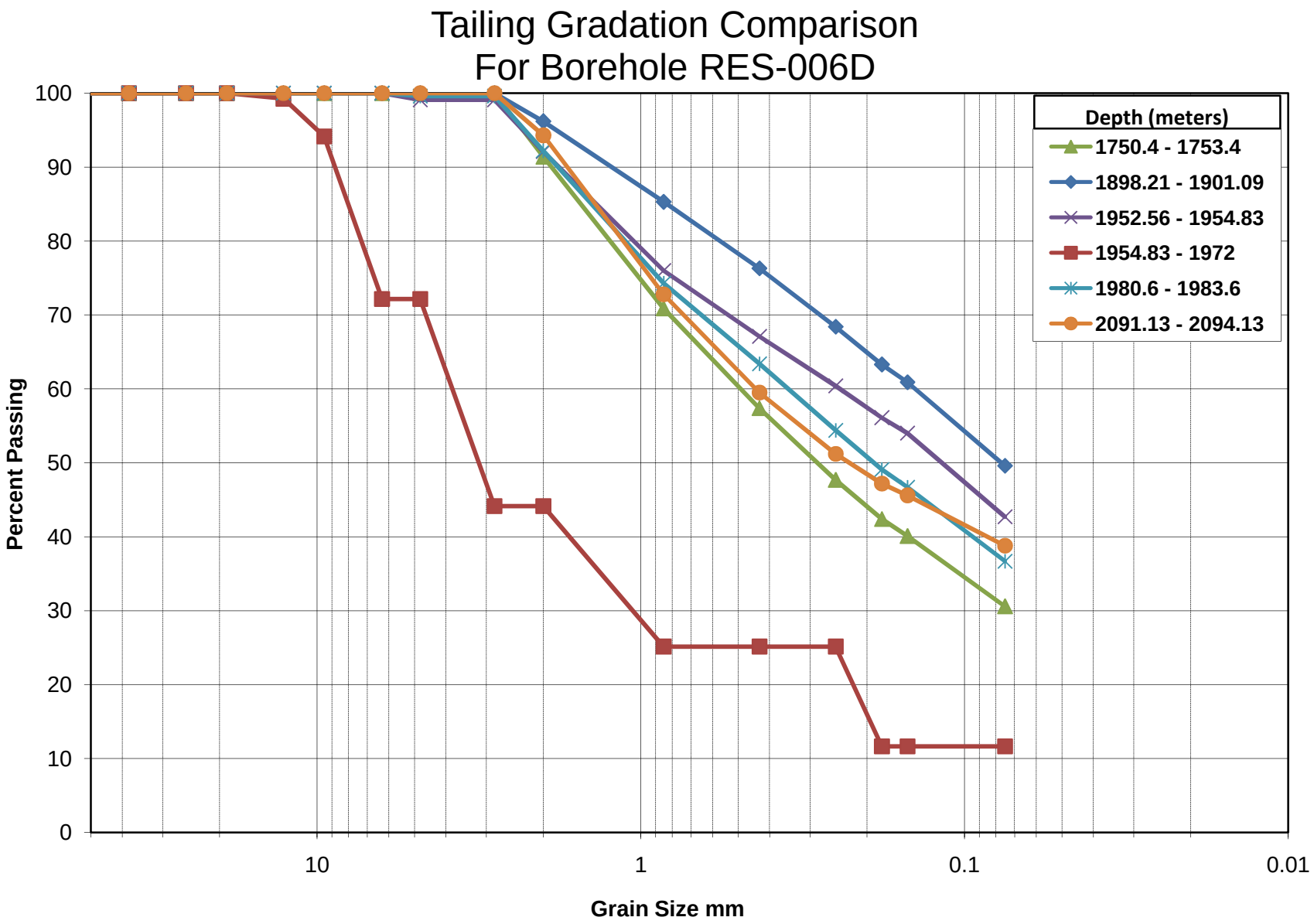
APPENDIX G
GRAIN SIZE DATA AND GRADATION CURVES

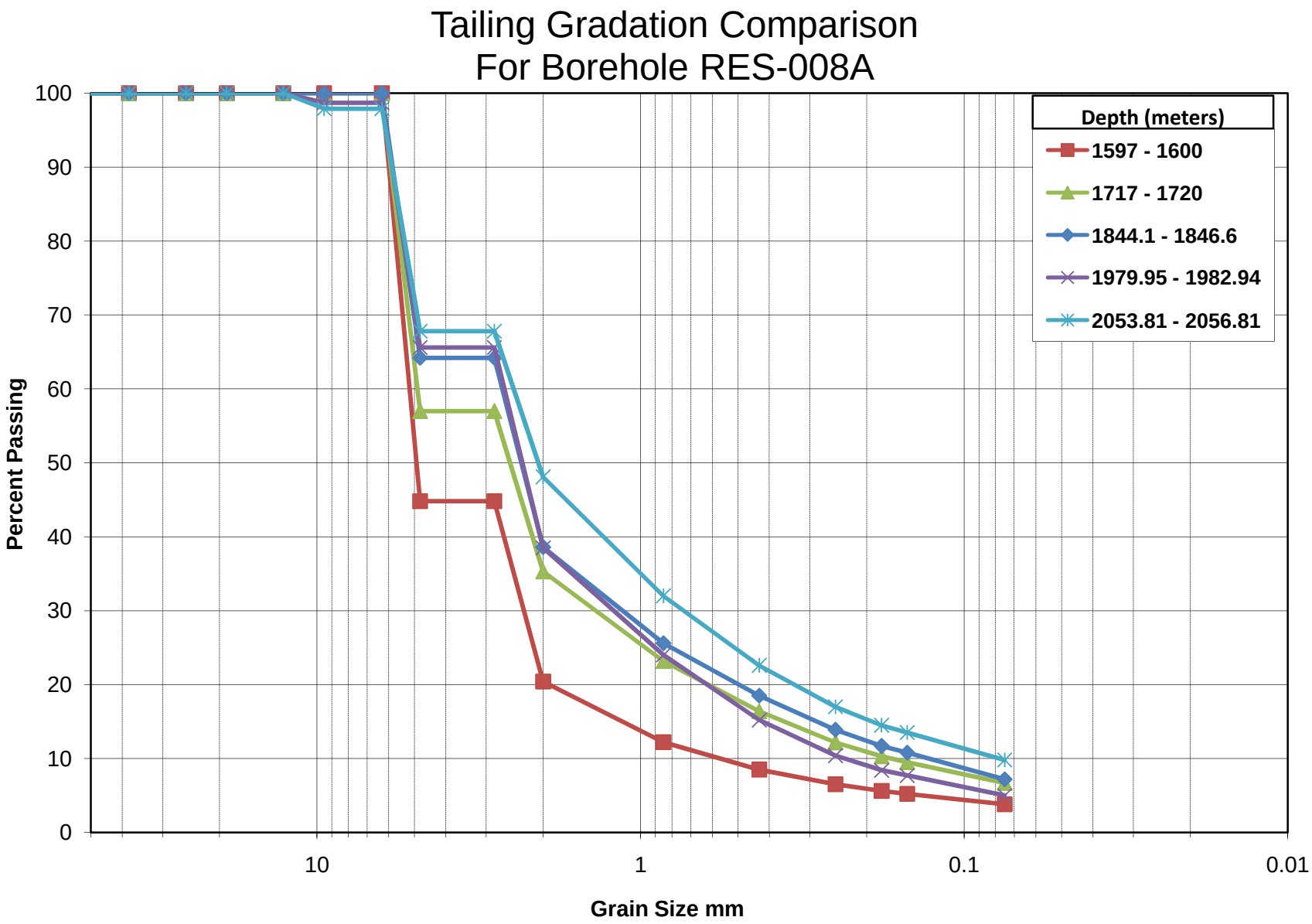

Tailing Gradation Comparison
For Borehole RES-001C
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
1639 - 1642
1745 - 1748
1771.75 - 1791.4
1855 - 1858
1873 - 1876
2041 - 2044

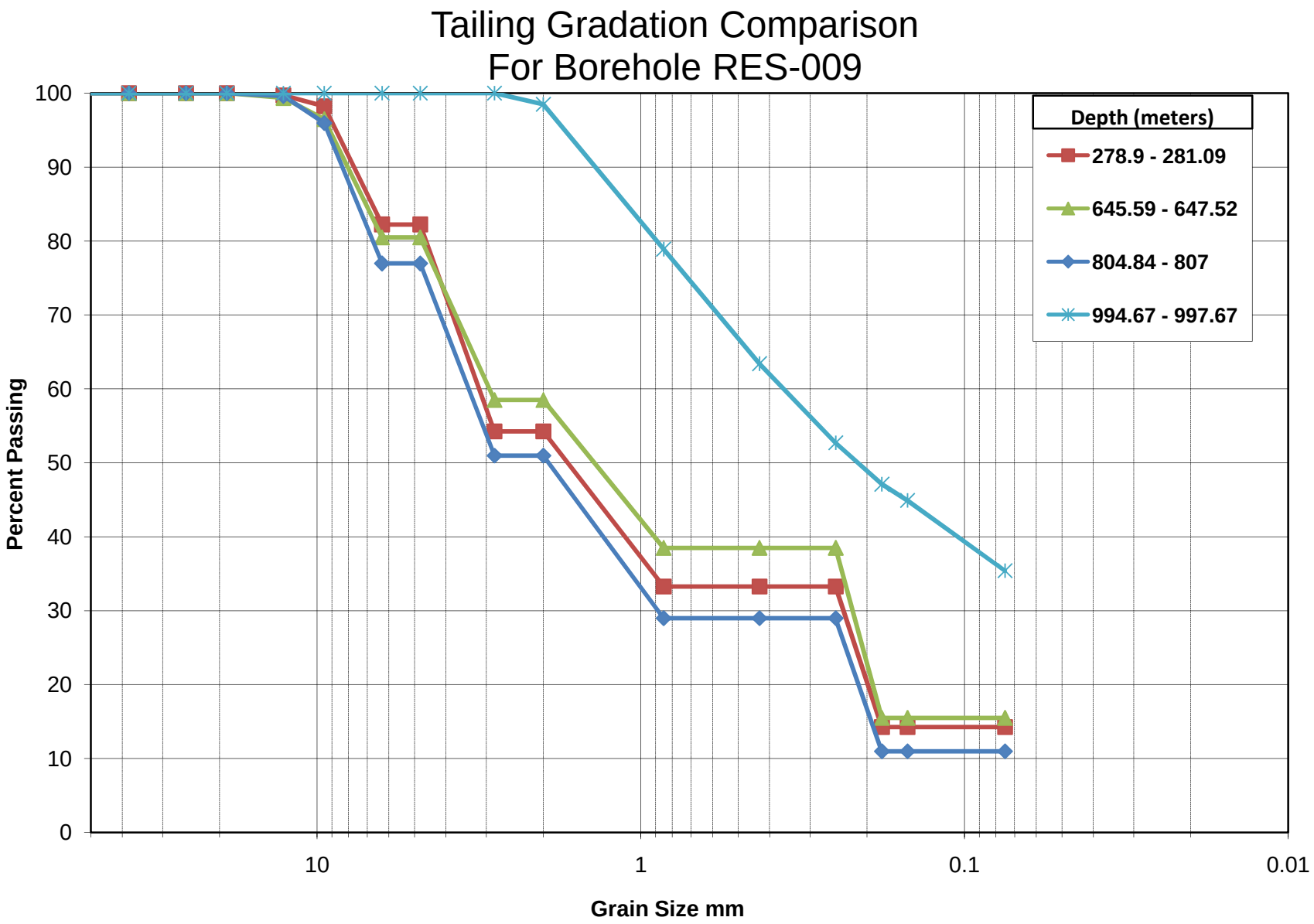

Tailing Gradation Comparison
For Borehole RES-002A
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
888 - 891
1154 - 1156
1414 - 1417
1454 - 1457
1927 - 1930

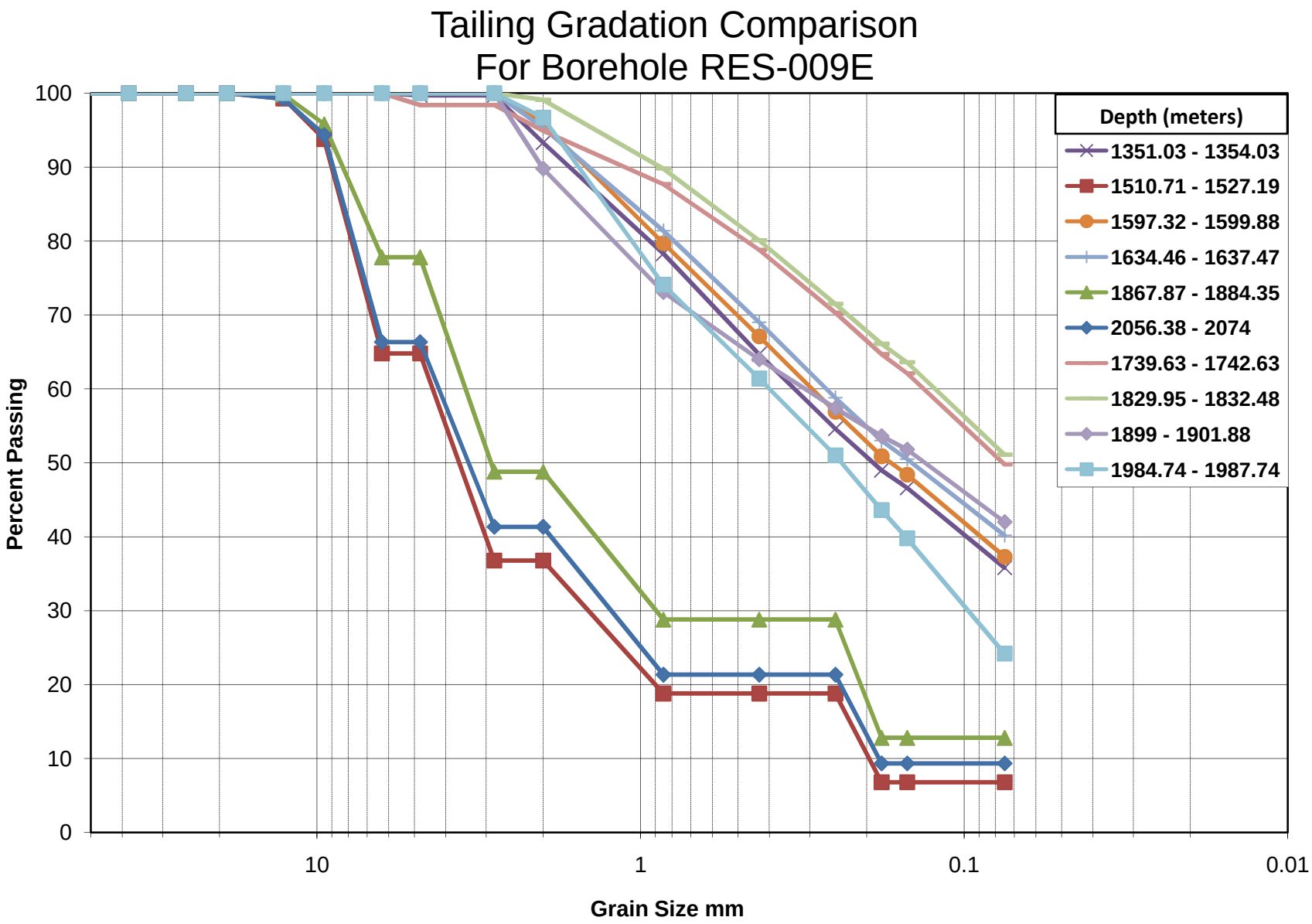

Tailing Gradation Comparison
For Borehole RES-005I
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
1317.28 - 1320.28
1428.18 - 1431.18
1499 - 1502
1586.46 - 1589.46
1632.56 - 1635.56
1652 - 1654.93
1654.93 - 1659.8
1759.23 - 1761.23
1892.81 - 1895
1917.29 - 1920.9


Tailing Gradation Comparison
For Borehole RES-005J
Depth (meters)
1660.4 - 1686.4
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm


Tailing Gradation Comparison
For Borehole RES-006D
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
1750.4 - 1753.4
1898.21 - 1901.09
1952.56 - 1954.83
1954.83 - 1972
1980.6 - 1983.6
2091.13 - 2094.13


Tailing Gradation Comparison
For Borehole RES-008A
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
1597 - 1600
1717 - 1720
1844.1 - 1846.6
1979.95 - 1982.94
2053.81 - 2056.81


Tailing Gradation Comparison
For Borehole RES-009
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
278.9 - 281.09
645.59 - 647.52
804.84 - 807
994.67 - 997.67


Tailing Gradation Comparison
For Borehole RES-009E
Percent Passing
100
90
80
70
60
50
40
30
20
10
0
10
1
0.1
0.01
Grain Size mm
Depth (meters)
1351.03 - 1354.03
1510.71 - 1527.19
1597.32 - 1599.88
1634.46 - 1637.47
1867.87 - 1884.35
2056.38 - 2074
1739.63 - 1742.63
1829.95 - 1832.48
1899 - 1901.88
1984.74 - 1987.74

APPENDIX H
SATURATED COLUMN TEST RESULTS

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS													
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-001C	1745	1748	TEST SC2	8-Mar-10	<0.2	0.0005 F	0.0024	0.055 D1	<0.02 D1	<0.1 D1	0.0003 F	560 M3	<30 D1	<0.1 D1	<0.05	0.04 F	<5 D1	<0.05	<0.0005
				15-Mar-10	<0.2	<0.002	0.0009 F	0.019 F	<0.01	<0.05	0.0002 F	592 M3	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				22-Mar-10	0.05 F	<0.002	<0.002	0.011 F	<0.01	<0.05	0.0002 F	512	<5	<0.05	<0.05	0.04 F	0.5	<0.05	<0.0005
				29-Mar-10	<0.2	<0.002	<0.002	0.009 F	<0.01	<0.05	0.0002 F	466	<5	<0.05	<0.05	<0.05	0.4 F	<0.05	<0.0005
				5-Apr-10	<0.2	<0.002	<0.002	0.008 F	<0.01	<0.05	0.0001 F	453	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				12-Apr-10	<0.2	<0.002	<0.002	0.011 F	<0.01	<0.05	0.0001 F	430	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				19-Apr-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	----	----	--	----	----
				26-Apr-10	<0.2	<0.002	<0.002	0.006 F	<0.01	<0.05	0.0001 F	440	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				3-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	----	--	----	----
				10-May-10	0.04 F	<0.002	<0.002	0.008 F	<0.01	<0.05	<0.0005	419 M3	<30 D1M2	0.01 F	<0.05	<0.05	<5 D1	<0.05	<0.0005
				17-May-10	--	----	----	-- --	----	----	----	-- --	--	-- --	----	----	--	----	----
				24-May-10	0.03 F	<0.002	<0.002	0.006 F	<0.01	<0.05	<0.0005	430 M3	<30 D1	0.1 <D1	<0.1 D1	0.04 F	<5 D1	<0.05	<0.0005
RES-002A	1414.6	1417	TEST SC11	8-Mar-10	300 D1	<0.02 D1	0.006 FD1	0.3 FD1	<0.5 D1	<3 D1	0.002 FD1	11 D1	<50 D1	0.5 FD1	1.3 D1	3060 D1	<10 M1	140 D1	0.004 FD1
				15-Mar-10	73.1 B7	<0.01 D1	<0.01 D1	<0.2 D1	<0.1 D1	<0.3 D1	0.0005 FD1	4 FD1	<50 D1	0.16 FD1	0.3 D1	864 D1	<10 D1	70.1 D1	0.001 FD1
				22-Mar-10	3.45	<0.002	<0.002	0.007 F	<0.01	<0.05	<0.0005	0.9 F	<5	<0.05	0.02 F	49.5	<5 D1	34.5	0.0005
				29-Mar-10	1.12	<0.002	<0.002	0.005 F	<0.01	<0.05	<0.0005	0.7 F	<5	<0.05	<0.05	13.2	<0.5	32.5	0.0006
				5-Apr-10	0.72	<0.002	<0.002	0.006 F	<0.01	<0.05	<0.0005	0.7 F	<30 D1	<0.05	<0.05	8.16	<5 D1	30.7	0.0005
				12-Apr-10	0.62	<0.002	<0.002	0.009 F	<0.01	<0.05	<0.0005	0.5 F	<30 D1	<0.05	<0.05	5.79	<5 D1	29.3	0.0008
				19-Apr-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	0.48	<0.002	<0.002	0.02	<0.01	<0.05	<0.0005	0.5 F	<30 D1	0.01 F	<0.05	3.51	<5 D1	30.7	0.0008
				3-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				10-May-10	0.43	<0.002	<0.002	0.008 F	<0.01	<0.05	<0.0005	1.5	<30 D1	<0.05	<0.05	2.6	<5 D1	28.3	0.0015
				17-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				24-May-10	0.27	<0.002	<0.002	0.007 F	<0.01	<0.05	<0.0005	0.3 F	<30 D1M2	<0.05	<0.05	2.07	<5 D1M2	23.2	0.0005
	1454	1457	TEST SC12	8-Mar-10	1 FD1	<0.02 D1	<0.02 D1	0.3 FD1	<0.5 D1	<3 D1	0.003 FD1	10 D1	<30 D1	<3 D1	0.4 FD1	2010 D1	<5 D1	0.6 D1	0.002 FD1

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS														
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-002A	1454	1457	TEST SC12	15-Mar-10	0.14 F	<0.002	<0.002	<0.08 D1	<0.05 D1	<0.05	0.0004 F	4 FD1	<30 D1	0.03 F	0.03 F	387 M3	<5 D1	0.3 D1	0.0003 F
				22-Mar-10	0.09 F	<0.002	<0.002	0.007 F	<0.01	<0.1 D1	0.0002 F	2.4	<5	<0.05	0.01 F	134 D1	<0.5	0.11	0.0001 F
				29-Mar-10	0.05 F	<0.002	<0.002	0.007 F	<0.01	<0.05	0.0002 F	2.9	<5	<0.05	<0.05	109 D1	<5 D1	0.12	0.0002 F
				5-Apr-10	<0.2	<0.002	<0.002	0.01 F	<0.01	<0.05	0.0001 F	3.1	<30 D1	<0.05	<0.05	92.3	<5 D1	0.1	0.0002 F
				12-Apr-10	<0.2	<0.002	<0.002	0.013 F	<0.01	<0.05	0.0001 F	3	<30 D1	<0.05	<0.05	81.7	<5 D1	0.08	0.0001 F
				19-Apr-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	0.03 F	<0.002	<0.002	0.027	<0.01	<0.05	0.0001 F	2.6	<30 D1	0.01 F	<0.05	74.9	<5 D1	0.09	0.0001 F
				3-May-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				10-May-10	<0.2	<0.002	<0.002	0.014 F	<0.01	<0.05	<0.0005	2.7	<30 D1	<0.05	<0.05	61.9	<5 D1	0.13	0.0001 F
				17-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				24-May-10	<0.2	<0.002	<0.02 M1	0.015 F	<0.01	<0.05	<0.0005 M3	2.1	<30 D1	<0.05	<0.05	49.7	<5 D1	0.05	0.0008 M1
	1927	1930	TEST SC14	15-Mar-10	36.7 B7	<0.002	0.0098	0.03 D1	0.012 FD1	<0.05	0.0089	530 D1	<30 D1	0.01 F	0.15	192 D1	49 D1	0.37 D1	0.0005
				22-Mar-10	9.53	<0.002	<0.002	0.021	0.005 F	<0.05	0.0053	548	<5	<0.05	0.08	82.6	13 D1	0.19	0.0001 F
				29-Mar-10	3.85	<0.002	<0.002	0.014 F	0.002 F	<0.05	0.0031	560	<5	<0.05	0.04 F	43.9	6 D1	0.23	0.0001 F
				5-Apr-10	1.96	<0.002	<0.002	0.013 F	<0.01	<0.05	0.0023	576	<30 D1	<0.05	0.01 F	21.6	4 FD1	0.22	<0.0005
				12-Apr-10	1.13	<0.002	<0.002	0.015 F	<0.01	<0.05	0.0017	551	<30 D1	<0.05	<0.05	8.9	3 FD1	0.26	0.0001 F
				19-Apr-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	0.89	<0.002	<0.002	0.018 F	<0.01	<0.05	0.0015	551	<30 D1	<0.05	<0.05	2.37	3 FD1	0.28	0.0001 F
				3-May-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				10-May-10	0.88	<0.002	<0.002	0.013 F	<0.01	<0.05	0.0013	585	<30 D1	0.01 F	<0.05	0.99	2 FD1	0.27	<0.0005
				17-May-10	--	----	----	-- --	----	----	-- --	-- --	--	-- --	----	-- --	--	-- --	----
				24-May-10	0.62	<0.002	<0.002	0.015 F	<0.01	<0.05	0.0009	612	<30 D1	<0.1 D1	<0.1 D1	0.49	2 FD1	0.24	<0.0005
RES-005I	1652	1654.93	TEST SC21	8-Mar-10	131 D1	<0.002	0.127	0.08 FD1	<0.1 D1	<0.5 D1	0.0027	11 D1	<30 D1	0.1 FD1	0.55 D1	539 D1	<5 D1	128 D1	0.0037
				15-Mar-10	20.7 B7	<0.002	0.0217	0.046	<0.01	<0.05	0.0005	2.2	<30 D1	0.04 F	0.08	91.3 D1	<5 D1	39.8	0.0011
				22-Mar-10	1.16	<0.002	0.0023	0.051	<0.01	<0.05	<0.0005	0.4 F	<5	<0.05	<0.05	7.07	<0.5	14.6	0.0008

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS														
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-005I	1652	1654.93	TEST SC21	29-Mar-10	0.39	<0.002	0.0048	0.047	<0.01	<0.05	<0.0005	0.2 F	<5	<0.05	<0.05	2.65	<0.5	13.1	0.0007
				5-Apr-10	0.14 F	<0.002	0.0023	0.059	<0.01	<0.05	<0.0005	<1	<30 D1	<0.05	<0.05	1.17	<5 D1	9.55	0.0007
				12-Apr-10	0.08 F	<0.002	0.0008 F	0.07	<0.01	<0.05	<0.0005	<1	<30 D1	<0.05	<0.05	0.65	<5 D1	6.33	0.0005
				19-Apr-10	-- --	----	-- --	-- --	----	----	----	----	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	0.04 F	<0.002	0.0013 F	0.12	<0.01	<0.05	<0.0005	<1	<30 D1	<0.05	<0.05	0.17	<5 D1	2.37	0.0003 F
				3-May-10	-- --	----	-- --	-- --	----	----	----	----	--	----	----	-- --	--	-- --	-- --
				10-May-10	0.04 F	<0.002	<0.002	0.138	<0.01	<0.05	<0.0005	0.8 F	<30 D1	<0.05	<0.05	0.29	<5 D1	3.68	0.0003 F
				17-May-10	-- --	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				24-May-10	<0.2	<0.002	<0.002	0.119	<0.01	<0.05	0.0001 F	<1	<30 D1	<0.05	<0.05	0.07	<5 D1	1.83	0.0002 F
RES-006D	1898.21	1901.09	TEST SC28	8-Mar-10	1230 D1	<0.02 D1	0.011 FD1	0.3 FD1	<0.5 D1	<3 D1	0.031 D1	925 D1	<30 D1	<3 D1	8.6 D1	2480 D1	710 D1	1690 D1	<0.005 D1
				15-Mar-10	26.5 B7	<0.002	0.0013 F	<0.03 D1	<0.02 D1	0.01 F	0.0013	210 D1	<30 D1	0.02 F	0.18	114 D1	26 D1	117 D1	<0.0005
				22-Mar-10	4.02	<0.002	<0.002	<0.02	<0.01	<0.05	0.0001 F	37.2	<5	<0.05	<0.05	2.38	8	50.2	<0.0005
				29-Mar-10	3.85	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	25.9	<5	<0.05	<0.05	0.63	8.1	53.3	<0.0005
				5-Apr-10	2.66	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	18	<30 D1	<0.05	<0.05	0.18	7 D1	37.7	0.0001 F
				12-Apr-10	1.24	<0.002	<0.002	0.004 F	<0.01	<0.05	<0.0005	10.1	<30 D1	<0.05	<0.05	0.05	6 D1	18.7	<0.0005
				19-Apr-10	-- --	----	----	-- --	----	----	----	-- --	--	----	----	----	--	-- --	----
				26-Apr-10	0.95	<0.002	<0.002	0.013 F	<0.01	<0.05	<0.0005	7.6	<30 D1	<0.05	<0.05	<0.05	5 D1	15.5	<0.0005
				3-May-10	-- --	----	----	----	----	----	----	-- --	--	----	----	----	--	-- --	----
				10-May-10	0.83	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	8.6	<30 D1	<0.05	<0.05	0.01 F	4 FD1	11.4	0.0001 F
				17-May-10	-- --	----	----	----	----	----	----	-- --	--	----	----	----	--	-- --	----
				24-May-10	0.42	<0.002	<0.002	<0.02	<0.01	<0.05	<0.0005	5.5	<30 D1	<0.05	<0.05	<0.05	3 FD1	7.35	0.0002 F
RES-008A	1717	1720	TEST SC34	8-Mar-10	0.05 F	<0.002	0.0007 F	0.08	<0.01	<0.05	0.0006	138	<30 D1	<0.05	<0.05	0.12	<5 D1	<0.05	<0.0005
				15-Mar-10	0.04 F	<0.002	0.0007 F	0.045	<0.01	<0.05	0.0004 F	108	<30 D1	0.02 F	<0.05	0.04 F	<5 D1	0.03 F	<0.0005
				22-Mar-10	<0.2	<0.002	<0.002	0.023	<0.01	<0.05	0.0001 F	52	1 F	<0.05	<0.05	0.02 F	<0.5	<0.05	<0.0005
				29-Mar-10	<0.2	<0.002	<0.002	0.014 F	<0.01	<0.05	<0.0005	38.7	<5	<0.05	<0.05	<0.05	<0.5	0.02 F	<0.0005

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS														
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-008A	1717	1720	TEST SC34	5-Apr-10	<0.2	<0.002	<0.002	0.011 F	<0.01	<0.05	<0.0005	29.9	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				12-Apr-10	<0.2	<0.002	<0.002	0.015 F	<0.01	<0.05	<0.0005	21.2	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				19-Apr-10	--	----	----	-- --	----	----	----	-- --	--	----	----	----	--	----	----
				26-Apr-10	<0.2	<0.002	<0.002	0.016 F	<0.01	<0.05	<0.0005	13.5	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				3-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	----	--	----	----
				10-May-10	0.05 F	<0.002	<0.002	0.004 F	<0.01	<0.05	<0.0005	11.6	<30 D1	<0.05	<0.05	<0.05	<5 D1	0.03 F	<0.0005
				17-May-10	-- --	----	----	-- --	----	----	----	-- --	--	----	----	----	--	-- --	----
				24-May-10	0.05 F	<0.002	<0.002	0.006 F	<0.01	<0.05	<0.0005	9.4	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
RES-009	278.9	281.09	TEST SC38	8-Mar-10	0.58	<0.02 D1	<0.02 D1	0.061	<0.01	0.02 F	<0.005 D1	15	<30 D1	<0.05	<0.05	0.04 F	<5 D1	0.04 F	<0.005 D1
				15-Mar-10	0.4	<0.002	0.0046	0.013 F	<0.01	0.1	<0.0005	7.6	<30 D1	<0.05	<0.05 V1	0.02 F	<5 D1	0.24	0.0002 F
				22-Mar-10	0.27	<0.002	0.0024	0.007 F	<0.01	<0.05	<0.0005	6.7		<0.05	<0.05	<0.05	<0.5	0.02 F	0.0001 F
				29-Mar-10	0.17 F	<0.002	0.0036	0.007 F	<0.01	<0.05	0.0002 F	5.5		<0.05	<0.05	<0.05	<0.5	0.04 F	0.0003 F
				5-Apr-10	0.38	<0.002	0.0033	0.005 F	<0.01	<0.05	<0.0005	5.2	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	0.0002 F
				12-Apr-10	0.28	<0.002	0.003	0.007 F	<0.01	<0.05	<0.0005	4.7	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				19-Apr-10	-- --	----	-- --	-- --	----	----	----	-- --	--	----	----	----	--	----	----
				26-Apr-10	0.2	<0.002	0.0027	0.004 F	<0.01	<0.05	<0.0005	4.5	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				3-May-10	-- --	----	-- --	-- --	----	----	----	-- --	--	----	----	----	--	----	----
				10-May-10	0.22	<0.002	0.0015 F	0.004 F	<0.01	<0.05	<0.0005	4.7	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
				17-May-10	-- --	----	-- --	-- --	----	----	----	-- --	--	----	----	----	--	----	----
				24-May-10	0.1 F	<0.002	0.0013 F	0.006 F	<0.01	<0.05	<0.0005	5	<30 D1	<0.05	<0.05	<0.05	<5 D1	<0.05	<0.0005
	645.59	647.52	TEST SC39	8-Mar-10	0.56	<0.02 D1		0.045	<0.01	0.42	<0.005 D1	13.6	<30 D1	<0.05	<0.05	0.1	2 FD1	0.4	<0.005 D1
				15-Mar-10	0.7	<0.002	0.0051	0.017 F	<0.01	0.14	<0.0005	6.8	<30 D1	<0.05	<0.05 V1	0.04 F	1 FD1	0.42	0.0005
				22-Mar-10	0.54	<0.002	0.0059	0.006 F	<0.01	0.15	<0.0005	2.9	<5	<0.05	<0.05	0.03 F	2.5	0.45	0.0004 F
				29-Mar-10	0.37	<0.002	0.0077	<0.02	<0.01	0.12	<0.0005	2.3	<5	<0.05	<0.05	0.02 F	2.3	0.35	0.0003 F
				5-Apr-10	0.37	<0.002	0.0064	<0.02	<0.01	0.08	<0.0005	1.8	<30 D1	<0.05	<0.05	0.02 F	1 FD1	0.28	0.0002 F

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
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L1	The associated blank spike recovery was above laboratory acceptance limits.
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APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS													
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009	645.59	647.52	TEST SC39	12-Apr-10	0.4	<0.002	0.0056	0.004 F	<0.01	0.06	<0.0005	1.5	<30 D1	<0.05	<0.05	0.01 F	1 FD1	0.26	0.0002 F
				19-Apr-10	-- --	----	-- --	-- --	-----	-- --	----	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	0.35	<0.002	0.0048	<0.02	<0.01	0.03 F	<0.0005	1.6	<30 D1	<0.05	<0.05	<0.05	<5 D1	0.2	0.0001 F
				3-May-10	-- --	----	-- --	-----	-----	-- --	----	-- --	--	----	----	----	--	-- --	-- --
				10-May-10	0.28	<0.002	0.0031	<0.02	<0.01	0.02 F	<0.0005	1.7	<30 D1	<0.05	<0.05	<0.05	<5 D1	0.11	<0.0005
				17-May-10	-- --	----	-- --	-----	-----	-- --	----	-- --	--	----	----	----	--	-- --	----
				24-May-10	0.28	<0.002	0.0028	0.004 F	<0.01	0.02 F	<0.0005	1.8	<30 D1	<0.05	<0.05	<0.05	<5 D1	0.13	<0.0005
RES-009E	1510.74	1527.19	TEST SC44	8-Mar-10	19.7	<0.002	0.0093	0.03 FD1	<0.1 D1	<0.5 D1	0.0117	110	<30 D1	<0.5 D1	0.31	223 D1	9 D1	884 D1	0.0043
				15-Mar-10	15	<0.002	0.0049	0.02 FD1	<0.05 D1	<0.3 D1	0.0086	81 D1	<30 D1	0.1 FD1	0.22 FD1	169 D1	6 D1	683 D1	0.0018
				22-Mar-10	6.68	<0.002	0.0008 F	0.008 F	0.003 F	<0.05	0.0044	40.1	<5	0.03 F	0.1	78	3.2	358	0.0005
				29-Mar-10	3.37	<0.002	0.0007 F	0.007 F	<0.01	<0.05	0.0025	23.1	<5	<0.05	0.06	40.8	2	229	0.0004 F
RES-009E	1510.74	1527.19	TEST SC44	5-Apr-10	1.95	<0.002	<0.002	<0.02	<0.01	<0.05	0.0015	16.1	<30 D1	<0.05	0.03 F	23.9	1 FD1	148	0.0002 F
				12-Apr-10	1.12	<0.002	<0.002	0.007 F	<0.01	<0.05	0.0007	9.4	<30 D1	<0.05	0.01 F	12.4	<5 D1	94.9	0.0001 F
				19-Apr-10	-- --	----	----	-- --	-----	----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	0.51	<0.002	<0.002	0.006 F	<0.01	<0.05	0.0004 F	4.7	<30 D1	<0.05	<0.05	3.83	<5 D1	50.1	0.0002 F
				3-May-10	-- --	----	----	-- --	-----	-----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				10-May-10	0.35	<0.002	<0.002	0.005 F	<0.01	<0.05	0.0002 F	3.1	<30 D1	<0.05	<0.05	1.65	<5 D1	31.1	0.0002 F
				17-May-10	-- --	----	--	-- --	-----	-----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				24-May-10	0.27	<0.002	<0.002 M1	0.006 F	<0.01	<0.05	0.0001 F	2.6	<30 D1	<0.05	<0.05	1.02	<5 D1	24.6	0.001
	1739.63	1742.63	TEST SC49	8-Mar-10	830 D1	<0.02 M1	0.014 FD1	<2 D1	<1 D1	<5 D1	0.217 D1	140 D1	<30 D1	<5 D1	5.4 D1	9350 D1	190 D1	238 D1	0.004 FD1
				15-Mar-10	160 D1	<0.01 D1	<0.01 D1	<0.3 D1	<0.2 D1	<0.5 V1	0.0364 D1	27 D1	<30 D1	<1 D1	0.9 FD1	1760 D1	26 D1	91 D1	0.0014 FD1
				22-Mar-10	6.39	<0.002	<0.002	0.009 F	<0.01	<0.05	0.0009	1.6	<5	<0.05	0.02 F	31.3	1.9	49	0.0071
				29-Mar-10	3.27	<0.002	0.0006 F	0.019 F	<0.01	<0.05	0.0003 F	0.7 F	<5	<0.05	<0.05	4.62	1.2	42.9	0.0277
				5-Apr-10	2.37	<0.002	<0.002	0.06	<0.01	<0.05	0.0001 F	0.6 F	<30 D1	<0.05	<0.05	2.52	<5 D1	37.7	0.0889
				12-Apr-10	1.81	<0.002	<0.002	0.122	<0.01	<0.05	0.0001 F	0.4 F	<30 D1	<0.05	<0.05	1.43	<5 D1	31.5	0.156

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS													
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	1739.63	1742.63	TEST SC49	19-Apr-10	-- --	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	1.12	<0.002	<0.002	0.211	<0.01	<0.05	<0.0005	0.5 F	<30 D1	<0.05	<0.05	0.48	<5 D1	24.6	0.308
				3-May-10	-- --	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				10-May-10	0.83	<0.002	<0.002	0.189	<0.01	<0.05	<0.0005	0.4 F	<30 M2	<0.05	<0.05	0.24	<5 D1	18.5 M3	0.419
				17-May-10	-- --	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	-- --	-- --
				24-May-10	0.47	<0.002	<0.002	0.154	<0.01	<0.05	<0.001 D1	0.2 F	<30 D1	<0.05	<0.05	0.13	<5 D1	14.1 M3	0.481 D1
	1829.95	1832.48	TEST SC50	8-Mar-10	154 D1	<0.002	0.0126 M1	<0.2 D1	0.07 FD1	<0.5 D1	0.0258	161 D1	<30 D1	<0.5 D1	0.42 D1	670 M3	190 M2	71.5 D1	0.0009
				15-Mar-10	42.3	<0.002	0.0022	0.004 F	0.017	<0.05 V1	0.0034	53.2	<30 M2	0.01 F	0.06	78.6 M3	0.5	18.3 M3	0.0002 F
				22-Mar-10	14.1	<0.002	<0.002	0.008 F	0.005 F	<0.05	0.0008	19.7	<5	<0.05	0.01 F	12.2	21.5	6.84	0.0001 F
				29-Mar-10	14	<0.002	<0.002	<0.02	0.005 F	<0.05	0.0008	20.1	<5	<0.05	<0.05	5.9	21.5	6.27	0.0002 F
				5-Apr-10	8.35	<0.002	<0.002	<0.02	0.003 F	<0.05	0.0005	16.8	<30 D1	<0.05	0.01 F	1.48	19 D1	4.73	0.0002 F
				12-Apr-10	7.72	<0.002	<0.002	0.01 F	0.004 F	<0.05	0.0005	17.9	<30 D1	<0.05	<0.05	0.61	19 D1	5.21	0.0002 F
				19-Apr-10	-- --	----	----	-- --	-- --	----	-- --	-- --	--	----	----	-- --	--	-- --	-- --
				26-Apr-10	6.39	<0.002	0.0008 F	0.015 F	0.004 F	<0.05	0.0005	18.9	<30 D1	<0.05	0.01 F	0.04 F	17 D1	7.26	0.0004 F
				3-May-10	-- --	----	----	-- --	-- --	----	-- --	-- --	--	----	----	----	--	-- --	-- --
				10-May-10	4.31	<0.002	<0.002	0.015 F	0.003 F	<0.05	0.0003 F	12.6	<30 D1	<0.05	<0.05	<0.05	11 D1	6.29	0.0003 F
				17-May-10	-- --	----	----	-- --	-- --	----	-- --	-- --	--	----	----	----	--	-- --	-- --
				24-May-10	2.61	<0.002	<0.002	0.014 F	0.003 F	<0.05	0.0002 F	8.4	<30 D1M2	<0.05	<0.05	<0.05	10 D1M2	4.92	0.0002 F
	1899	1901.88	TEST SC52	8-Mar-10	0.05 F	<0.002	0.0024	0.085	<0.01	<0.05	0.0043	655	<30 D1	<0.05	0.09	3.54	1 FD1	<0.05	<0.0005
				15-Mar-10	0.04 F	<0.002	0.0013 F	0.035	<0.01	<0.05 V1	0.0016	641	<30 D1	<0.05	0.03 F	0.85	2 FD1	<0.05	<0.0005
				22-Mar-10	<0.2	<0.002	<0.002	0.026	<0.01	<0.05	0.0011	616	<5	<0.05	0.01 F	0.41	2.7	<0.05	<0.0005
				29-Mar-10	0.09 FD1	<0.002	<0.002	0.019 F	<0.01	<0.05	0.0007	592	<5	<0.05	<0.05	0.28	3.1	<0.05	<0.0005
				5-Apr-10	<0.2	<0.002	<0.002	0.018 F	<0.01	<0.05	0.0004 F	595	<30 D1	<0.05	0.01 F	0.24	4 FD1	<0.05	<0.0005
				12-Apr-10	0.04 F	<0.002	<0.002	0.019 F	<0.01	<0.05	0.0003 F	474	<30 D1	<0.05	<0.05	0.21	5 D1	<0.05	<0.0005
				19-Apr-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	----	----

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
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D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
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M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS														
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Aluminum MG/L	Antimony MG/L	Antimony MG/L	Barium MG/L	Beryllium MG/L	Boron MG/L	Cadmium MG/L	Calcium MG/L	Chloride (as Cl) MG/L	Chromium, Total MG/L	Cobalt MG/L	Copper MG/L	Fluoride MG/L	Iron MG/L	Lead MG/L
RES-009E	1899	1901.88	TEST SC52	26-Apr-10	<0.2	<0.002	<0.002	0.04	<0.01	<0.05	<0.0005	66.5	<30 D1	<0.05	<0.05	0.04 F	6 D1	<0.05	<0.0005
				3-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	----	----
				10-May-10	<0.2	<0.002	<0.002	0.065	<0.01	<0.05	<0.0005	32.4	<30 D1	<0.05	<0.05	0.02 F	5 D1	<0.05	<0.0005
				17-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	----	----
				24-May-10	<0.2	<0.002	<0.002	0.095	<0.01	<0.05	<0.0005	25.5	<30 D1	<0.05	<0.05	0.01 F	3 FD1	<0.05	<0.0005
	2056.38	2075	TEST SC54	8-Mar-10	0.13 F	<0.002 D1	<D10.02	0.01 F	0.011	<0.05 M1	0.003 FD1	539		<0.05	0.08	13.7 M3	<5 D1	<0.05	<0.005 D1
				15-Mar-10	0.05 F	<0.002	FM10.0006	0.012 F	0.005 F	<0.05 V1	0.0016	599	<30 D1	<0.05	0.04 F	8.21	2 FD1	<0.05	<0.0005
				22-Mar-10	0.07 F	<0.002	<0.002	0.01 F	0.003 F	<0.05	0.001	596	<5	<0.05	0.02 F	3.32	1.8	<0.05	0.0032
				29-Mar-10	<0.2	<0.002	<0.002	0.008 F	<0.01	<0.05	0.0007	563	<5	<0.05	0.01 F	1.54	1.8	<0.05	<0.0005
				5-Apr-10	<0.2	<0.002	<0.002	0.008 F	<0.01	<0.05	0.0005	594 D1	<30 D1	<0.05	<0.1 D1	0.79	1 FD1	<0.05	<0.0005
				12-Apr-10	<0.2	<0.002	<0.002	0.012 F	<0.01	<0.05	0.0004 F	583	<30 D1	<0.05	<0.05	0.42	1 FD1	<0.05	<0.0005
				19-Apr-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	-- --	--	----	----
				26-Apr-10	<0.2	<0.002	<0.002	0.01 F	<0.01	<0.05	0.0003 F	583	<30 D1	<0.05	<0.05	0.14	1 FD1	<0.05	<0.0005
				3-May-10	--	----	----	-- --	----	----	-- --	-- --	--	----	----	-- --	--	----	----
				10-May-10	<0.2	<0.002	<0.002	0.009 F	<0.01	<0.05	0.0001 F	594	<30 D1	<0.05	<0.05	0.09	2 FD1	<0.05	<0.0005
				17-May-10	--	----	----	-- --	----	----	----	-- --	--	----	----	-- --	--	----	----
				24-May-10	<0.2	<0.002	<0.002	0.017 F	<0.01	<0.05	<0.0005	620 D1	<30 D1	<0.1 D1	<0.1 D1	0.11	<5 D1	<0.05	<0.0005

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
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APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-001C	1745	1748	TEST SC2	8-Mar-10	3.3	0.759	<0.001 M2	0.17	0.03 F	9.3	0.0164	20.1 M1	<0.03 M2	2.6	<0.0005	0.0017	<0.03
				15-Mar-10	1.7	0.628	<0.001	0.03 F	<0.05 M2	8.3	0.0041	14.2 M1	<0.03 M2	1.6 FM1	<0.0005	0.0017	<0.03
				22-Mar-10	1.2	0.459	<0.001	0.02 F	<0.05	7.3	0.0019	11.4	<0.03	1 F	<0.0005	0.0011	<0.03
				29-Mar-10	1.1	0.439	<0.001	0.03 F	<0.05	7.2	0.0017	8.9	<0.03	1.2 F	<0.0005	0.0008	0.01 F
				5-Apr-10	0.9 F	0.347	<0.001	0.02 F	<0.05	7	0.0016	8.2	0.01 F	0.8 F	<0.0005	0.0006	0.011 F
				12-Apr-10	0.6 F	0.313	<0.001	0.02 F	<0.05	6.2	0.0016	7.6	<0.03	0.8 F	<0.0005	0.0005	0.014 F
				19-Apr-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	0.6 F	0.245	<0.001	0.03 F	<0.05	5.7	0.0016	7.6	<0.03	0.4 F	<0.0005	0.0004 F	0.009 F
				3-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	0.6 F	0.212	<0.001	<0.05	<0.05	5.9 M1	0.0013	8 M1	<0.03 M2	0.8 F	<0.0005	0.0003 F	0.015 F
				17-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	0.3 F	0.187	<0.001	0.02 F	<0.1 D1	5.4	0.0013	7.3 M1	<0.03 M2	0.4 F	<0.0005	0.0002 F	<0.03
RES-002A	1414.6	1417	TEST SC11	8-Mar-10	5 FD1	6.44 D1	<0.001	0.1 FD1	1.1 D1	<20 D1	0.099 D1	24 D1	<0.3 D1	<20 D1	<0.005 D1	0.032 D1	0.05 FD1
				15-Mar-10	<10 D1	1.69 D1	<0.001	0.17 FD1	0.26 FD1	<8 D1	0.0286 D1	24 D1	<0.1 D1	3 FD1	<0.003 D1	0.0079 D1	<0.1 D1
				22-Mar-10	<1	0.117	<0.001	<0.05	0.02 F	0.7 F	0.0056	9.6	<0.03	<2	<0.0005	0.0005	<0.03
				29-Mar-10	<1	0.046	<0.001	<0.05	<0.05	1.9 F	0.0056	6.8	<0.03	0.3 F	<0.0005	0.0003 F	<0.03
				5-Apr-10	<1	0.029 F	<0.001	<0.05	<0.05	4.5	0.0044	6.1	0.01 F	<2	<0.0005	0.0002 F	<0.03
				12-Apr-10	<1	0.027 F	<0.001	<0.05	<0.05	5.9	0.0041	5.5	<0.03	<2	<0.0005	0.0002 F	<0.03
				19-Apr-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	0.021 F	<0.001	0.01 F	<0.05	9.5	0.0052	5.7	<0.03	<2	<0.0005	0.0002 F	<0.03
				3-May-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	0.017 F	<0.001	<0.05	<0.05	11	0.0034	5.6	<0.03	0.4 F	<0.0005	0.0001 F	<0.03
				17-May-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	0.007 F	<0.001	<0.05	<0.05	10.5	0.0034	4	<0.03	0.4 F	<0.0005	0.0001 F	<0.03
	1454	1457	TEST SC12	8-Mar-10	<10 D1	1.17 D1	<0.001	<0.5 D1	0.4 FD1	<20 D1	0.041 D1	14 D1	<0.3 D1	<20 D1	<0.005 D1	0.005 D1	<0.3 D1

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-002A	1454	1457	TEST SC12	15-Mar-10	<5 D1	0.1	<0.001	0.01 F	0.02 FM1	1.7 F	0.009	8 FD1	<0.03	0.6 F	0.0002 F	0.0004 F	<0.03
				22-Mar-10	<1	0.016 F	<0.001	<0.05	0.03 FD1	1.8 F	0.0032	4.9	<0.05 D1	<2	0.0002 F	<0.0005	<0.03
				29-Mar-10	<1	0.018 F	<0.001	0.01 F	<0.05	2.4 FD1	0.0032	4.2	<0.05 D1	<2	0.0003 F	<0.0005	<0.03
				5-Apr-10	<1	0.014 F	<0.001	<0.05	<0.05	2.2	0.0025	4.2	<0.03	<2	0.0003 F	<0.0005	<0.03
				12-Apr-10	<1	0.016 F	<0.001	<0.05	<0.05	1.7 F	0.002	4	<0.03	<2	0.0002 F	<0.0005	<0.03
				19-Apr-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	0.017 F	<0.001	<0.05	<0.05	1.3 F	0.0021	4.5	<0.03	<2	0.0001 F	<0.0005	0.017 F
				3-May-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	0.017 F	<0.001	<0.05	<0.05	0.9 F	0.0012	4.3	<0.03	<2	0.0001 F	<0.0005	0.014 F
				17-May-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	0.012 F	<0.001	<0.05	<0.05	0.6 F	0.001	3.4	<0.03	<2	<0.0005 M1	<0.0005 M1	<0.03
	1927	1930	TEST SC14	15-Mar-10	14.5 D1	2.01	<0.001	0.02 F	0.19 FD1	28.6	0.187	43 D1	<0.03	7.3	0.0002 F	0.0037	0.007 F
				22-Mar-10	7.2	0.914	<0.001	<0.05	0.09	23.6	0.0157	23	<0.03	1.5 F	0.0001 F	0.0012	<0.03
				29-Mar-10	3.9	0.446	<0.001	<0.05	0.05	20.5	0.0057	16.3	<0.03	0.8 F	0.0001 F	0.0007	0.011 F
				5-Apr-10	1.8	0.202	<0.001	0.01 F	0.03 F	18.3	0.0029	13.2	0.01 F	0.6 F	0.0001 F	0.0004 F	0.008 F
				12-Apr-10	0.9 F	0.109	<0.001	0.01 F	0.01 F	15.6	0.0017	11.7	<0.03	0.5 F	0.0001 F	0.0003 F	0.013 F
				19-Apr-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	1.2	0.106	<0.001	<0.05	0.02 F	15.6	0.0022	11.2	<0.03	0.5 F	0.0001 F	0.0002 F	0.027 F
				3-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	1.4	0.117	<0.001	<0.05	<0.05	16.8	0.0017	11.2	<0.03	0.5 F	<0.0005	0.0001 F	0.013 F
				17-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	1.4	0.122	<0.001	0.04 F	<0.1 D1	15.8	0.0022	9.6	<0.03	0.6 F	0.0001 F	<0.0005	<0.03
RES-005I	1652	1654.93	TEST SC21	8-Mar-10	2 FD1	1.22 D1	<0.001	<0.3 D1	0.15 FD1	3 FD1	1.92 B7	24 D1	<0.1 D1	<8 D1	<0.0005	0.0071	<0.1 D1
				15-Mar-10	0.5 F	0.205	<0.001	0.01 F	<0.1 D1	1.3 F	0.426 D1	13.7	<0.03	0.4 F	<0.0005	0.0013	<0.03
				22-Mar-10	<1	0.027 F	<0.001	<0.05	<0.05	1.8 F	0.108	9.1	<0.03	<2	<0.0005	0.0001 F	<0.03

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-005I	1652	1654.93	TEST SC21	29-Mar-10	<1	0.015 F	<0.001	<0.05	<0.05	2.4	0.106	7.9	<0.03	<2	<0.0005	<0.0005	<0.03
				5-Apr-10	<1	<0.03	<0.001	0.01 F	<0.05	2.6	0.0788	6.2	<0.03	<2	<0.0005	<0.0005	<0.03
				12-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	2	0.0531	4.3	<0.03	<2	<0.0005	<0.0005	<0.03
				19-Apr-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	<0.03	<0.001	0.01 F	<0.05	0.9 F	0.0341	2.7	<0.03	<2	<0.0005	<0.0005	<0.03
				3-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	0.006 F	<0.001	<0.05	<0.05	0.7 F	0.0319	4.6	<0.03	<2	<0.0005	<0.0005	<0.03
				17-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0255	2.8	<0.03	<2	<0.0005	<0.0005	<0.03
RES-006D	1898.21	1901.09	TEST SC28	8-Mar-10	7 FD1	0.69 D1	<0.001	<0.5 D1	2.5 D1	<20 D1	0.258 D1	328 D1	<0.3 D1	5 FD1	<0.005 D1	0.106 D1	0.24 FD1
				15-Mar-10	<2 D1	0.03	<0.001	0.03 F	0.04 F	<2	0.0262	62.9	<0.03	0.6 F	<0.0005	0.0045	0.008 F
				22-Mar-10	<1	<0.03	<0.001	<0.05	<0.05	<2	0.0074	46.6	<0.03	0.4 F	<0.0005	0.0004 F	<0.03
				29-Mar-10	<1	<0.03	<0.001	<0.05	<0.05	0.4 F	0.011	44.5	<0.03	0.4 F	<0.0005	0.0003 F	<0.03
				5-Apr-10	<1	<0.03	<0.001	0.01 F	<0.05	0.7 F	0.0107	34.5	<0.03	<2	<0.0005	0.0002 F	<0.03
				12-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	1.1 F	0.0055	19.5	<0.03	<2	<0.0005	<0.0005	<0.03
				19-Apr-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	<0.03	<0.001	<0.05	0.01 F	1.3 F	0.0067	20.6	<0.03	<2	<0.0005	<0.0005	<0.03
				3-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	0.008 F	<0.001	<0.05	<0.05	0.9 F	0.0047	21.9	<0.03	<2	<0.0005	<0.0005	<0.03
				17-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	<0.03	<0.001	0.02 F	<0.05	0.6 F	0.0039	15.1	<0.03	<2	<0.0005	<0.0005	<0.03
RES-008A	1717	1720	TEST SC34	8-Mar-10	3.8	2.79	<0.001	<0.05	0.02 F	5.3	0.0032	12.9	<0.03	0.6 F	<0.0005	0.0004 F	<0.03
				15-Mar-10	2.7	2.04	<0.001	<0.05	<0.05	4.2	0.0019	10.6	<0.03	0.5 F	<0.0005	0.0003 F	0.009 F
				22-Mar-10	1.3	0.916	<0.001	<0.05	<0.05	3	0.0006	7.6	<0.03	<2	<0.0005	<0.0005	<0.03
				29-Mar-10	1	0.637	<0.001	<0.05	<0.05	2.6	0.0005	6.2	<0.03	<2	<0.0005	<0.0005	<0.03

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-008A	1717	1720	TEST SC34	5-Apr-10	0.7 F	0.442	<0.001	<0.05	<0.05	2.2	0.0004 F	5.8	<0.03	<2	<0.0005	<0.0005	<0.03
				12-Apr-10	0.4 F	0.315	<0.001	<0.05	<0.05	1.9 F	0.0002 F	5.5	<0.03	<2	<0.0005	<0.0005	<0.03
				19-Apr-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	0.3 F	0.19	<0.001	<0.05	<0.05	1.7 F	0.0002 F	5.2	<0.03	<2	<0.0005	<0.0005	<0.03
				3-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	0.3 F	0.107	<0.001	<0.05	<0.05	1.3 F	0.0001 F	4.9	<0.03	<2	<0.0005	<0.0005	<0.03
				17-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	0.07	<0.001	<0.05	<0.05	1.2 F	0.0002 F	4.3	<0.03	<2	<0.0005	<0.0005	<0.03
RES-009	278.9	281.09	TEST SC38	8-Mar-10	1.8	0.03	<0.001	<0.05	0.04 F	2.2	<0.005 B1	33.5	<0.03	24.2	<0.005 D1	0.023 D1	<0.03
				15-Mar-10	0.7 F	0.007 F	<0.001	<0.05 V1	<0.05	0.7 F	0.004	22.8	<0.03	45.9	<0.0005	0.0075	0.029 F
				22-Mar-10	0.4 F	0.005 F	<0.001	<0.05	0.01 F	0.4 F	<0.0005	28.3	<0.03	13.1	<0.0005	0.0037	<0.03
				29-Mar-10	0.3 F	<0.03	<0.001	<0.05	<0.05	<2	<0.0005	26.8	<0.03	11.1	<0.0005	0.0023	<0.03
				5-Apr-10	0.2 F	<0.03	<0.001	<0.05	<0.05	0.4 F	<0.0005	25.9	<0.03	9.6	<0.0005	0.0012	0.006 F
				12-Apr-10	<1	<0.03	<0.001	0.01 F	<0.05	0.6 F	<0.0005	24.5	<0.03	8.7	<0.0005	0.0008	0.006 F
				19-Apr-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	0.4 F	<0.0005	23.4	<0.03	6.5	<0.0005	0.0004 F	0.005 F
				3-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10		<0.03	<0.001	<0.05	<0.05	<2	<0.0005	23.7	<0.03	5.8	<0.0005	0.0003 F	<0.03
				17-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	<0.03	<0.001	<0.05	<0.05	<2	<0.0005	21	<0.03	4.8	<0.0005	0.0002 F	<0.03
	645.59	647.52	TEST SC39	8-Mar-10	1.6	0.04	<0.001	0.03 F	0.02 F	3.2	0.181	20.1	<0.03	123	<0.005 D1	0.003 FD1	0.024 F
				15-Mar-10	0.7 F	0.013 F	<0.001	<0.05	<0.05	0.9 F	0.0097	22.4	<0.03	54.2	<0.0005	0.0048	0.028 F
				22-Mar-10	0.4 F	0.006 F	<0.001	<0.05	<0.05	1.2 F	0.0046	17.3	<0.03	58.2	<0.0005	0.0017	0.058
				29-Mar-10	0.3 F	<0.03	<0.001	<0.05	<0.05	1.1 F	0.0062	15.4	<0.03	51.3	<0.0005	0.0014	0.068
				5-Apr-10	0.2 F	<0.03	<0.001	<0.05	<0.05	1 F	0.0052	14.5	<0.03	44.9	<0.0005	0.0011	0.074

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
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D1	Sample required dilution due to matrix.
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Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-009	645.59	647.52	TEST SC39	12-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	0.9 F	0.0046	14.6	<0.03	39.5	<0.0005	0.0008	0.069
				19-Apr-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	0.9 F	0.0051	13.6	<0.03	30.5	<0.0005	0.0004 F	0.045
				3-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	<0.03	<0.001	<0.05	<0.05	0.8 F	0.0031	13.1	<0.03	25	<0.0005	0.0002 F	0.037
				17-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	<0.03	<0.001	<0.05	<0.05	0.6 F	0.0036	11.9	<0.03	21.9	<0.0005	0.0001 F	0.028 F
RES-009E	1510.74	1527.19	TEST SC44	8-Mar-10	2 FD1	0.856	<0.001	0.01 F	0.17	<2	0.021 D1	23.3	0.03	0.7 F	<0.0005	0.0338	0.023 F
				15-Mar-10	2 FD1	0.66 D1	<0.001	<0.05 V1	0.09	<2	0.0207	21.3	0.02 F	<8 D1	<0.0005	0.0239	<0.1 D1
				22-Mar-10	0.9 F	0.329	<0.001	<0.05	0.04 F	<2	0.0098	14.4	<0.03	0.3 F	<0.0005	0.0067	0.037
				29-Mar-10	0.6 F	0.171	<0.001	0.02 F	0.02 F	<2	0.0065	10.1	<0.03	<2	<0.0005	0.0017	0.037
RES-009E	1510.74	1527.19	TEST SC44	5-Apr-10	0.4 F	0.084	<0.001	<0.05	<0.05	<2	0.0062	8.6	0.01 F	<2	<0.0005	0.0007	0.005 F
				12-Apr-10	<1	0.045	<0.001	0.01 F	<0.05	0.4 F	0.0046	7.2	<0.03	<2	<0.0005	0.0003 F	<0.03
				19-Apr-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	0.018 F	<0.001	<0.05	<0.05	0.6 F	0.006	6.1	<0.03	<2	<0.0005	<0.0005	0.007 F
				3-May-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	0.012 F	<0.001	<0.05	<0.05	0.6 F	0.0042	5.7	<0.03	<2	<0.0005	<0.0005	<0.03
				17-May-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	0.006 F	<0.001	0.02 F	<0.05	0.7 F	0.0049 M1	4.9	<0.03	<2	<0.0005 M1	<0.0005	<0.03
	1739.63	1742.63	TEST SC49	8-Mar-10	<50 V1	1.2 D1	<0.001	1 FD1	2.5 FD1	<80 D1	0.134 B7	60 D1	<1 D1	<80 D1	<0.005 D1	0.122 M1	<1 D1
				15-Mar-10	<20 D1	0.2 FD1	<0.001	<1 D1	0.3 FD1	<20 D1	0.0237 D1	45 D1	<0.3 D1	<20 V1	<0.003 D1	0.0201 D1	<0.3 V1M1
				22-Mar-10	<1	0.01 F	<0.001	<0.05	0.01 F	1.3 F	0.0022	35.6	<0.03	0.5 F	0.0002 F	0.0006	<0.03
				29-Mar-10	<1	<0.03	<0.001	<0.05	<0.05	1.5 F	0.0022	30.6	<0.03	0.5 F	0.0003 F	0.0002 F	<0.03
				5-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	1.1 F	0.0023	29.1	<0.03	0.5 F	0.0005	0.0002 F	<0.03
				12-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	0.8 F	0.0016	27.2	<0.03	<2	0.0004 F	0.0001 F	<0.03

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-009E	1739.63	1742.63	TEST SC49	19-Apr-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	<1	<0.03	<0.001	<0.05	<0.05	0.6 F	0.0018	27.8	<0.03	<2	0.0002 F	<0.0005	<0.03
				3-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	<1	0.005 F	<0.001	<0.05	<0.05	0.3 FM1	0.0012	27.6	<0.03 M2	<2	0.0002 F	<0.0005	<0.03
				17-May-10	----	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	<1	<0.03	<0.001	0.01 F	<0.05	<2	0.0013	22.7	<0.03 M2	<2	0.0002 F	<0.001 D1	<0.03
	1829.95	1832.48	TEST SC50	8-Mar-10	189 D1	10.9 D1	<0.001 M2	<0.3 D1	0.66 D1	6 FD1	0.185 B7	218 D1	<0.1 D1	<8 D1	<0.0005	0.318 D1	<0.1 D1
				15-Mar-10	33.6	1.61 M3	<0.001	<0.05 V1M1	0.06	5.7	0.0485	81.2	<0.03	0.8 F	<0.0005	0.0353	0.006 F
				22-Mar-10	9.2	0.407	<0.001	<0.05	0.02 F	6.7	0.0145	30.9	<0.03	1.7 F	<0.0005	0.0083	<0.03
				29-Mar-10	9.2	0.387	<0.001	<0.05	0.02 F	8.3	0.0177	27.4	<0.03	3	<0.0005	0.0066	<0.03
				5-Apr-10	7.7	0.325	<0.001	<0.05	0.01 F	7.8	0.0163	18.2	<0.03	2.5	<0.0005	0.0039	<0.03
				12-Apr-10	8	0.364	<0.001	0.01 F	<0.05	7.6	0.0137	18.3	0.03	3.8	<0.0005	0.0029	<0.03
				19-Apr-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	9.7	0.443	<0.001	0.01 F	0.01 F	8.9	0.0176	20.3	<0.03	3.1	<0.0005	0.0019	<0.03
				3-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	6.7	0.298	<0.001	<0.05	<0.05	7.1	0.0092	16.5	<0.03	2	<0.0005	0.001	<0.03
				17-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	4.5	0.198	<0.001	<0.05	<0.05	4.6	0.007	12.6	<0.03	1.2 F	<0.0005	0.0007	<0.03
	1899	1901.88	TEST SC52	8-Mar-10	31.5	33.6	<0.001	0.01 F	0.03 F	35.5	0.0638 M1	11.8	<0.03	1.4 F	0.0002 F	0.0008	<0.03
				15-Mar-10	11.9	15.5	<0.001	<0.05 V1	0.02 F	20.9	0.0168	8.9 M1	<0.03	0.4 F	<0.0005	0.0005	<0.03 V1
				22-Mar-10	2	6.59	<0.001	<0.05	0.01 F	9.8	0.0036	4.8	<0.03	<2	<0.0005	0.0004 F	<0.03
				29-Mar-10	0.5 F	3.1 D1	<0.001	0.02 F	<0.05	6.1 D1	0.002	4.2	<0.05 D1	0.4 F	<0.0005	0.0003 F	<0.05 D1
				5-Apr-10	0.2 F	1.69	<0.001	0.02 F	<0.05	5.4	0.0018	4.1	0.02 F	<2	<0.0005	0.0003 F	0.009 F
				12-Apr-10	<1	0.721	<0.001	0.02 F	<0.05	3.9	0.0016	3.4	0.02 F	<2	<0.0005	0.0002 F	0.013 F
				19-Apr-10	----	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --

--	not requested
N	normal sample
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SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
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B3	Target analyte detected in calibration blank at or above the method reporting limit.
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B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
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D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
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L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS												
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Magnesium MG/L	Manganese MG/L	Manganese MG/L	Molybdenum MG/L	Nickel MG/L	Potassium MG/L	Selenium MG/L	Silica MG/L	Silver MG/L	Sodium MG/L	Thallium MG/L	Thallium MG/L	Vanadium MG/L
RES-009E	1899	1901.88	TEST SC52	26-Apr-10	0.2 F	0.108	<0.001	0.02 F	<0.05	2	0.0014	2.1	<0.03	<2	<0.0005	<0.0005	<0.03
				3-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	0.3 F	0.059	<0.001	<0.05	<0.05	1.4 F	0.0012	1.9 F	<0.03	<2	<0.0005	<0.0005	<0.03
				17-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	0.3 F	0.038	<0.001	0.02 F	<0.05	1 F	0.0015	1.4 F	<0.03	<2	<0.0005	<0.0005	<0.03
	2056.38	2075	TEST SC54	8-Mar-10	49.8 M2	1.22	<0.001	0.01 F	0.17	9.5	0.076	6.7	<0.03	3.7	<0.005 D1	0.003 FD1	<0.03
				15-Mar-10	26.1	0.605	<0.001	<0.05 V1	0.08	7.8	0.0104 M1	5.8	<0.03	1 F	<0.0005	0.0017	<0.03 V1
				22-Mar-10	17.7	0.436	<0.001	<0.05	0.06	7.2	0.0043	4.5	<0.03	0.4 F	<0.0005	0.0013	<0.03
				29-Mar-10	15.5	0.36 D1	<0.001	0.02 F	0.04 F	6.1 D1	0.0026	3.7	<0.05 D1	0.6 F	<0.0005	0.0012	<0.05 D1
				5-Apr-10	13.8	0.317	<0.001	0.01 F	0.03 F	6.3 D1	0.0018	3.3	0.03	0.4 F	<0.0005	0.0014	0.009 F
				12-Apr-10	11.5	0.261	<0.001	0.01 F	0.02 F	6.4	0.0012	3.1	0.02 F	0.5 F	<0.0005	0.0015	0.013 F
				19-Apr-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				26-Apr-10	8.6	0.183	<0.001	0.01 F	<0.05	6	0.001	2.7	<0.03	<2	<0.0005	0.0018	0.015 F
				3-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				10-May-10	8.6	0.143	<0.001	<0.05	<0.05	5.8	0.0008	2.6	<0.03	<2	<0.0005	0.0022	0.028 F
				17-May-10	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				24-May-10	9.5 D1	0.138	<0.001	0.01 F	<0.1 D1	5.5	0.0009	2.4	<0.03	<2	<0.0005	0.0028	<0.03

--	not requested
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MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
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V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-001C	1745	1748	TEST SC2	8-Mar-10	<0.1 D1	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<0.05	<5	27.84	<0.05	3795	7.28	2140	1370
				22-Mar-10	<0.05	<5	27.84	<0.05	2473	7.06	1960	1220
				29-Mar-10	<0.05	<5	20.88	<0.05	3794	6.85	1870	1350
				5-Apr-10	<0.05	<5	18.56	<0.05	-- --	6.95	1800	1220
				12-Apr-10	<0.05	<5	16.24	<0.05	3523	6.76	1740	1070
				19-Apr-10	-- --	<5	12.76	<0.05	3475	7.03	1720	874
				26-Apr-10	<0.05	<5	12.76	<0.05	3221	6.78	1690	1030
				3-May-10	-- --	<5	13.92	<0.05	3070	6.79	1660	1070
				10-May-10	<0.05	<5	12.76	<0.05	3102	6.92	1640	989
				17-May-10	-- --	<5	13.92	<0.05	3079	6.77	1590	1000
				24-May-10	<0.1 D1	<5	11.6	<0.05	3174	6.77	1600	1020
RES-002A	1414.6	1417	TEST SC11	8-Mar-10	0.4 FD1	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<0.5 D1	1360	<5	<0.05	1793	3.26	2200	1580
				22-Mar-10	<0.05	194.88	<5	2.45	2056	3.53	486	176
				29-Mar-10	0.02 F	107.52	<5	29.7	1986	3.52	317	114
				5-Apr-10	<0.05	88.48	<5	28.2	1885	3.54	285	98
				12-Apr-10	<0.05	80.64	<5	26.6	1807	3.6	271	90
				19-Apr-10	-- --	81.76	<5	26.6	1837	3.59	271	86
				26-Apr-10	0.01 F	79.52	<5	28.1	1755	3.64	273	88
				3-May-10	-- --	71.68	<5	26.1	1751	3.66	257	84
				10-May-10	<0.05	73.92	<5	25.1	1803	3.67	256	80
				17-May-10	-- --	59.36	<5	24.7	1766	3.65	240	84
				24-May-10	<0.05	66.08	<5	20.7	1791	3.64	232	77
	1454	1457	TEST SC12	8-Mar-10	0.4 FD1	-- --	-- --	-- --	-- --	-- --	-- --	-- --

--	not requested
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SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
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APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-002A	1454	1457	TEST SC12	15-Mar-10	<0.3 D1	360.32	<5	<0.05	1993	5.04	851	477
				22-Mar-10	<0.1 D1	192.44	<5	<0.05	1834	5.13	465	216
				29-Mar-10	0.03 F	139.76	<5	<0.05	1808	5.08	361	181
				5-Apr-10	<0.05	128.56	<5	<0.05	1880	5.06	321	160
				12-Apr-10	<0.05	116.28	<5	<0.05	1755	5.04	290	134
				19-Apr-10	-- --	103.92	<5	<0.05	1791	5.05	274	133
				26-Apr-10	0.02 F	103.92	<5	<0.05	1748	5.12	264	127
				3-May-10	-- --	96.08	<5	<0.05	1852	5.28	236	112
				10-May-10	<0.05	86.08	<5	<0.05	1934	5.23	215	92
				17-May-10	-- --	79.36	<5	<0.05	1809	5.37	136	88
				24-May-10	<0.05	71.44	<5	<0.05	1809	5.06	185	85
	1927	1930	TEST SC14	15-Mar-10	0.54 D1	410.68	<5	<0.05	3668	5.03	2560	1750
				22-Mar-10	0.27	165.44	<5	<0.05	3136	5.49	2510	1640
				29-Mar-10	0.2	88.16	<5	<0.05	3385	5.29	2290	1510
				5-Apr-10	0.06	45.56	<5	0.23	3613	5.48	2240	1530
				12-Apr-10	0.02 F	27.68	<5	0.27	3551	5.7	2220	1520
				19-Apr-10	-- --	22.08	<5	0.36	3508	5.84	2220	1460
				26-Apr-10	0.03 F	15.32	<5	0.29	3534	5.7	2240	1470
				3-May-10	-- --	14.2	<5	0.27	3418	5.56	2230	1450
				10-May-10	<0.05	13.08	<5	0.3	3376	5.66	2260	1530
				17-May-10	-- --	15.36	<5	0.26	3420	6.12	2250	1530
				24-May-10	<0.1 D1	15.36	<5	0.27	3272	5.56	2250	1580
RES-005I	1652	1654.93	TEST SC21	8-Mar-10	0.2 FD1	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<0.05	313.6	<5	32.5	1572	3.44	730	335
				22-Mar-10	0.01 F	57.12	<5	13.7	906	3.65	232	61

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-005I	1652	1654.93	TEST SC21	29-Mar-10	0.01 F	42.56	<5	12.7	1467	3.72	171	43
				5-Apr-10	<0.05	31.36	<5	8.46	1675	3.79	129	34
				12-Apr-10	<0.05	22.4	<5	5.72	1695	3.95	93	21
				19-Apr-10	-- --	15.6	<5	4.2	1704	4.05	70	16
				26-Apr-10	0.01 F	11.08	<5	2.2	1685	4.23	40	<10
				3-May-10	-- --	5.52	<5	2.05	1701	4.4	33	<10
				10-May-10	<0.05	13.32	<5	3.39	1678	4.28	46	10
				17-May-10	-- --	8.8	<5	2.24	1564	4.48	30	<10
				24-May-10	<0.05	8.84	<5	1.39	1578	4.46	28	<10
RES-006D	1898.21	1901.09	TEST SC28	8-Mar-10	4 D1	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<0.1 D1	400.96	<5	89.2	2000	3.64	1380	678
				22-Mar-10	0.02 F	131.04	<5	47.5	1135	3.98	454	198
				29-Mar-10	0.01 F	129.92	<5	51.7	1652	3.99	378	152
				5-Apr-10	<0.05	90.64	<5	33.6	1896	4.21	264	111
				12-Apr-10	<0.05	48.04	<5	18.1	1864	4.39	152	50
				19-Apr-10	-- --	46.84	<5	17.2	1831	4.52	148	50
				26-Apr-10	0.01 F	44.56	<5	14.1	1839	4.72	125	44
				3-May-10	-- --	40.12	<5	14.5	1842	4.65	127	45
				10-May-10	<0.05	33.36	<5	10.3	1832	4.84	99	31
				17-May-10	-- --	26.68	<5	8.08	1828	5.07	81	25
				24-May-10	<0.05	26.68	<5	6.95	1857	4.61	74	20
RES-008A	1717	1720	TEST SC34	8-Mar-10	0.2	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	0.14	<5	51.04	<0.05	3051	7.7	511	191
				22-Mar-10	0.04 F	<5	45.24	<0.05	3119	7.72	307	87
				29-Mar-10	0.02 F	<5	42.92	<0.05	3115	7.6	211	54

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-008A	1717	1720	TEST SC34	5-Apr-10	<0.05	<5	42.92	<0.05	3372	7.54	163	36
				12-Apr-10	<0.05	<5	40.6	<0.05	3338	7.92	121	19
				19-Apr-10	-- --	<5	40.6	<0.05	3301	7.61	108	11
				26-Apr-10	0.01 F	<5	33.64	<0.05	3391	7.59	86	<10
				3-May-10	-- --	<5	29	<0.05	3380	7.65	71	<10
				10-May-10	<0.05	<5	29	<0.05	3423	7.8	64	<10
				17-May-10	-- --	<5	26.68	<0.05	3439	7.54	59	<10
				24-May-10	<0.05	<5	25.52	<0.05	3406	7.55	56	<10
RES-009	278.9	281.09	TEST SC38	8-Mar-10	<0.05	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<0.05	<5	99.76	0.4	3547	8.45	203	<10
				22-Mar-10	<0.05	<5	46.4	0.14	3667	7.78	92	<10
				29-Mar-10	<0.05	<5	37.12	0.12	3810	7.92	73	<10
				5-Apr-10	<0.05	<5	34.8	<0.05	3820	8.02	64	<10
				12-Apr-10	<0.05	<5	30.16	0.08	3940	7.96	58	<10
				19-Apr-10	-- --	<5	27.84	<0.05	3618	7.94	55	<10
				26-Apr-10	0.01 F	<5	27.84	0.06	3857	7.91	52	<10
				3-May-10	-- --	<5	25.52	0.09	3803	7.95	50	<10
				10-May-10	<0.05	<5	26.68	<0.05	3944	8.33	48	<10
				17-May-10	-- --	<5	25.52	<0.05	4100	7.9	46	<10
				24-May-10	<0.05	<5	23.2	<0.05	4398	8.02	44	<10
	645.59	647.52	TEST SC39	8-Mar-10	<0.05	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<0.05	<5	104.4	0.5	3609	8.36	234	13
				22-Mar-10	<0.05	<5	121.8	0.4	2263	8.55	263	<10
				29-Mar-10	<0.05	<5	105.56	0.31	3237	8.52	217	<10
				5-Apr-10	<0.05	<5	91.64	0.28	4311	9.08	193	<10

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
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D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009	645.59	647.52	TEST SC39	12-Apr-10	<0.05	<5	81.2	0.2	4384	9.21	171	<10
				19-Apr-10	-- --	<5	74.24	0.16	4416	9.33	153	<10
				26-Apr-10	<0.05	<5	64.96	0.15	4396	9.27	139	<10
				3-May-10	-- --	<5	59.16	0.13	4334	9.31	122	<10
				10-May-10	<0.05	<5	53.36	0.14	4077	9.23	110	<10
				17-May-10	-- --	<5	51.04	<0.05	4135	9	102	<10
				24-May-10	<0.05	<5	47.56	<0.05	4106	8.86	99	<10
RES-009E	1510.74	1527.19	TEST SC44	8-Mar-10	0.23	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	0.07 FD1	1710	<5	628	3177	2.57	3940	2010
				22-Mar-10	0.02 F	931.84	<5	339	4493	2.73	2510	163
				29-Mar-10	0.06	526.4	<5	213	3094	2.97	1430	641
RES-009E	1510.74	1527.19	TEST SC44	5-Apr-10	0.02 F	359.52	<5	140	3844	3.11	987	408
				12-Apr-10	0.01 F	217	<5	88.3	3603	3.32	646	232
				19-Apr-10	-- --	156.8	<5	63.2	3882	3.47	461	164
				26-Apr-10	0.01 F	117.6	<5	46.7	4070	3.61	356	116
				3-May-10	-- --	91.84	<5	34.5	3792	3.71	264	89
				10-May-10	<0.05	69.44	<5	29.6	4684	3.8	218	78
				17-May-10	-- --	64.96	<5	22.8	4319	3.8	190	63
				24-May-10	<0.05	60.48	<5	22.3	5004	3.8	181	63
	1739.63	1742.63	TEST SC49	8-Mar-10	1.4 FD1	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	<1 D1	2250	<5	<0.05	1823	3.5	3310	2490
				22-Mar-10	<0.05	215.04	<5	48.2	1809	3.79	465	186
				29-Mar-10	<0.05	112	<5	41.3	1804	3.76	308	98
				5-Apr-10	<0.05	91.84	<5	33.2	1801	3.79	262	93
				12-Apr-10	<0.05	82.88	<5	28.3	1800	3.89	216	77

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX H
SATURATED COLUMN TEST RESULTS

					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	1739.63	1742.63	TEST SC49	19-Apr-10	-- --	68.32	<5	25.4	1818	3.93	194	63
				26-Apr-10	0.01 F	59.32	<5	23	1818	4.01	173	58
				3-May-10	-- --	51.48	<5	18.6	1809	4.08	148	49
				10-May-10	<0.05 M1	46.96	<5	16.3	1814	4.11	134	44
				17-May-10	-- --	42.56	<5	14.8	1807	4	117	39
				24-May-10	<0.05	40.24	<5	12.7	1821	4.09	106	34
	1829.95	1832.48	TEST SC50	8-Mar-10	10.4 D1	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	1.43 N1	322.32	<5	1.54	1371	4.34	844	189
				22-Mar-10	0.37	111.84	<5	6.52	1486	4.47	345	142
				29-Mar-10	0.34	97.44	<5	5.94	1429	4.56	309	136
				5-Apr-10	0.21	58.04	<5	4.31	2808	4.67	244	103
				12-Apr-10	0.2	54.64	<5	4.96	1255	4.72	260	108
				19-Apr-10	-- --	61.6	<5	6.12	1352	4.65	304	122
				26-Apr-10	0.17	58.24	<5	6.92	1372	4.7	287	118
				3-May-10	-- --	45.72	<5	6.29	1603	4.69	235	97
				10-May-10	0.11	37.84	<5	5.71	1594	4.88	201	72
				17-May-10	-- --	36.76	<5	5.18	1556	4.56	176	62
				24-May-10	0.06	33.4	<5	4.48	1558	4.72	148	49
	1899	1901.88	TEST SC52	8-Mar-10	0.79	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	0.2	<5	87	<0.05	773	8.05	2380	1520
				22-Mar-10	0.08	<5	62.64	<0.05	1450	7.59	2650	1460
				29-Mar-10	0.06	<5	58	<0.05	1604	7.58	2320	1510
				5-Apr-10	0.04 F	<5	58	<0.05	1564	7.51	2890	1470
				12-Apr-10	0.03 F	<5	59.16	<0.05	1454	7.63	1890	1140
				19-Apr-10	-- --	<5	62.64	<0.05	1678	7.82	1030	449

--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
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R1	Duplicate: RPD exceeded the method control limit.
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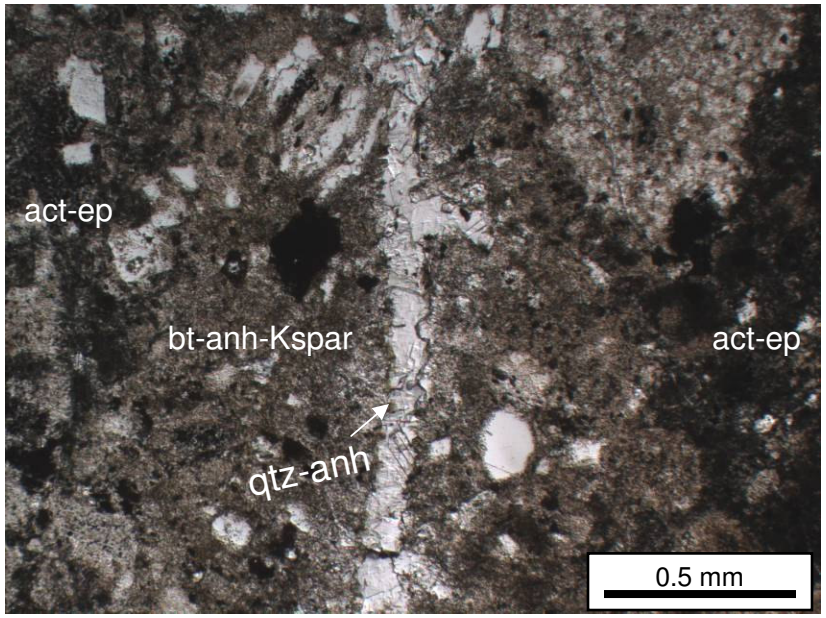
APPENDIX H
SATURATED COLUMN TEST RESULTS

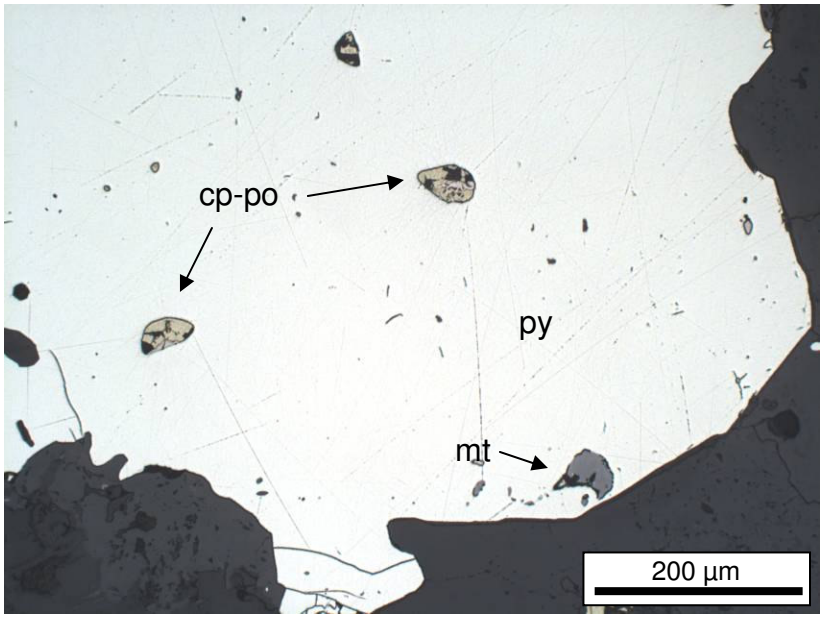
					ACZS	CES						
Borehole	Bottom Depth (m)	Top Depth (m)	Column ID	Sample Date	Zinc MG/L	Acidity, Total MG/L as CaCO3	Alkalinity, Total (as CaCO3) MG/L	Total Iron[1] MG/L	Leachate from Humidity Cell MLS	pH SU	Specific Conductance UMHOS/CM	Sulfate (as SO4) MG/L
RES-009E	1899	1901.88	TEST SC52	26-Apr-10	<0.05	<5	58	<0.05	1643	7.78	346	100
				3-May-10	-- --	<5	53.36	<0.05	1568	7.85	224	46
				10-May-10	<0.05	<5	48.72	<0.05	1615	7.88	170	19
				17-May-10	-- --	<5	46.4	<0.05	1579	7.77	147	14
				24-May-10	<0.05	<5	41.76	<0.05	1626	7.79	136	10
	2056.38	2075	TEST SC54	8-Mar-10	1.29	-- --	-- --	-- --	-- --	-- --	-- --	-- --
				15-Mar-10	0.67	<5	39.44	<0.05	3895	6.7	2430	1460
				22-Mar-10	0.29	<5	20.88	<0.05	4131	6.9	2420	1480
				29-Mar-10	0.22	<5	19.72	<0.05	3153	7.24	2290	1510
				5-Apr-10	0.11	<5	23.2	<0.05	3543	7.13	2330	1520
				12-Apr-10	0.06	<5	25.52	<0.05	3226	7.41	2310	1500
				19-Apr-10	-- --	<5	25.52	<0.05	4222	7.32	2320	1520
				26-Apr-10	0.03 F	<5	27.84	<0.05	3471	7.43	2370	1510
				3-May-10	-- --	<5	29	<0.05	4065	7.46	2360	1440
				10-May-10	<0.05	<5	29	<0.05	4071	7.38	2340	1510
				17-May-10	-- --	<5	29	<0.05	4009	7.53	2370	1540
				24-May-10	<0.1 D1	<5	34.8	<0.05	4626	7.53	2330	1350

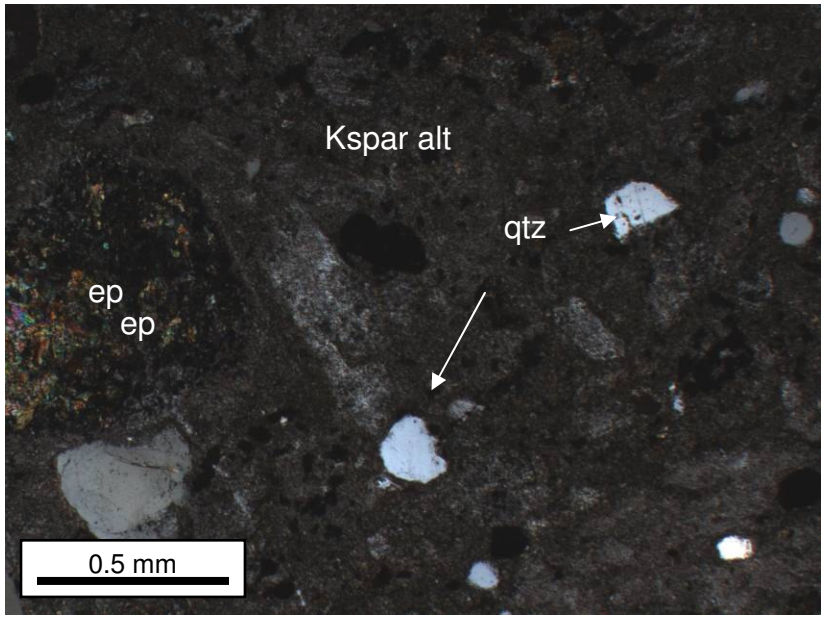
--	not requested
N	normal sample
MG/L	milligrams per liter
SU	standard units
UMHOS/CM	micromhos per centimeter
Iron [1]	Iron results from Chemac are suspect due to interference. Iron results from ACZ labs should be used for all calculations/evaluations.
B1	Target analyte detected in method blank at or above the method reporting limit.
B3	Target analyte detected in calibration blank at or above the method reporting limit.
B4	Target analyte detected in blank at or above the method reporting limit.
B7	Target analyte detected in method blank at or above method repotting limit. Concentration found in the sample <10X above concentration found in method blank
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
H3	Sample received and analyzed past holding time.
L1	The associated blank spike recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high. The method control sample recovery was acceptable.
M2	Matrix spike recovery was low. The method control sample recovery was acceptable.
M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
Q3	Sample received with improper chemical preservation.
R1	Duplicate: RPD exceeded the method control limit.
R4	RPD exceeded the method control limit. Recovery met acceptance criteria.
V1	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
V2	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
V3	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample, but the sample was not reanalyzed.
V5	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per Environmental Protection Agency Method 8000B.

APPENDIX I
PETROGRAPHIC PHOTOGRAPHS

RES-1C 1745m; Kvs- potassic







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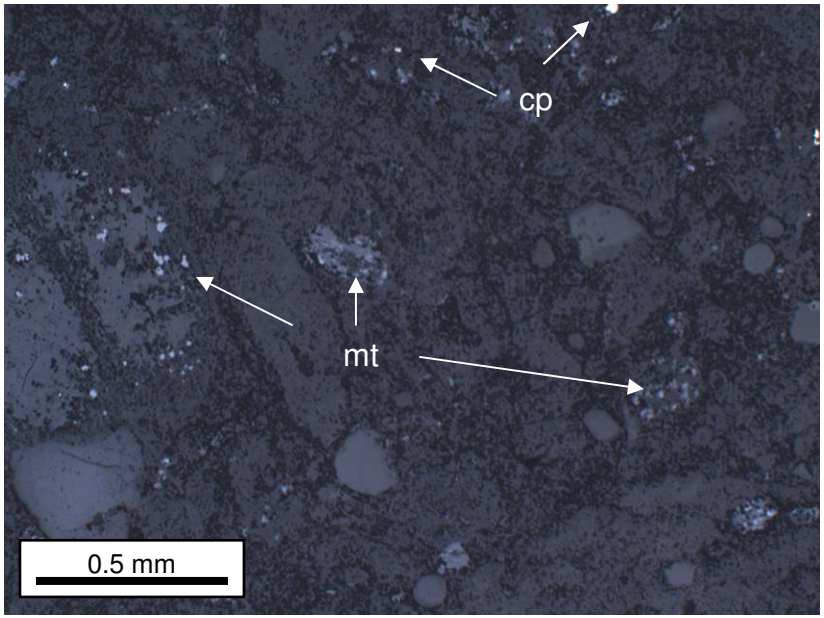
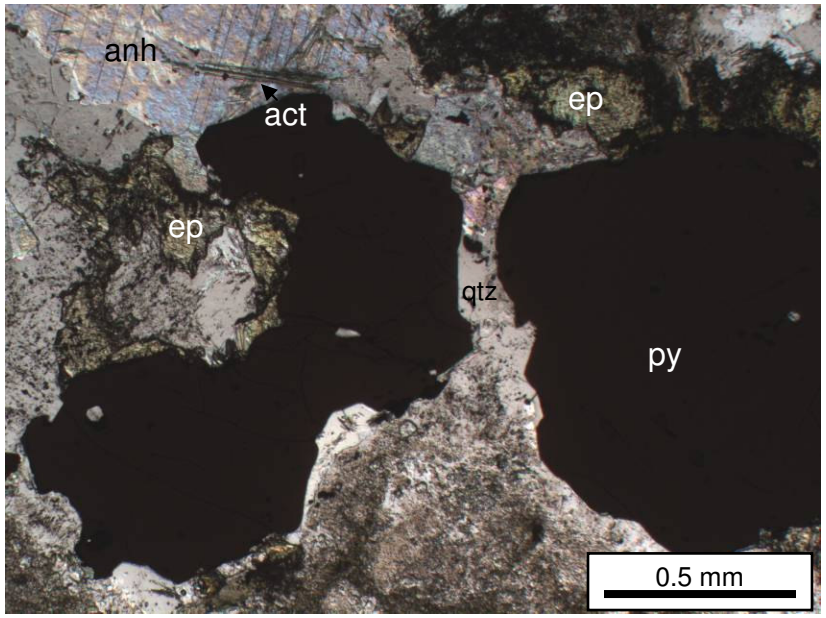
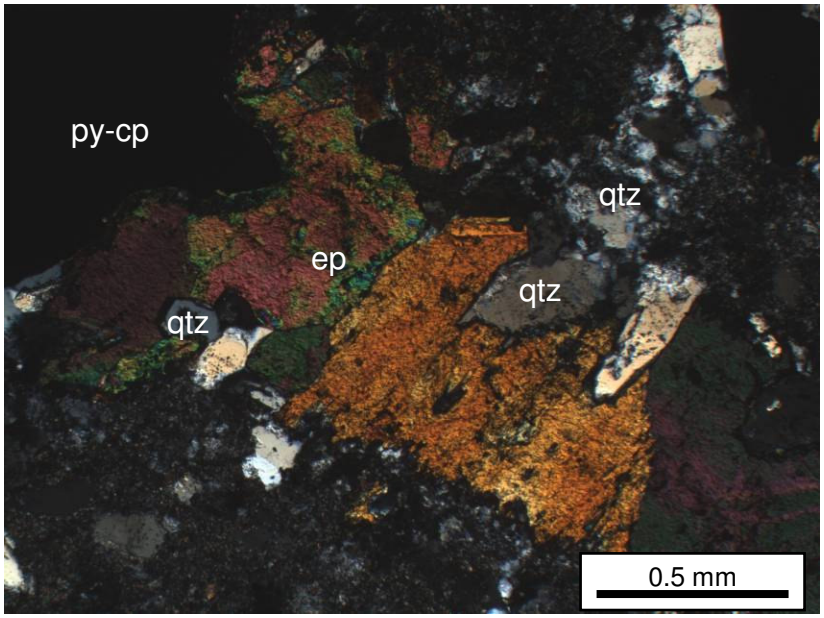
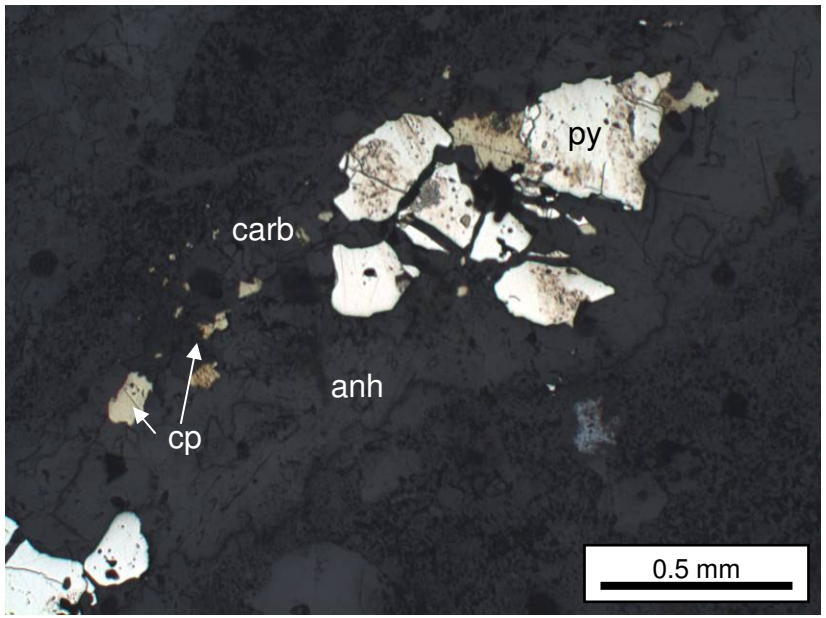


RES-1C 1745m; Kvs- potassic







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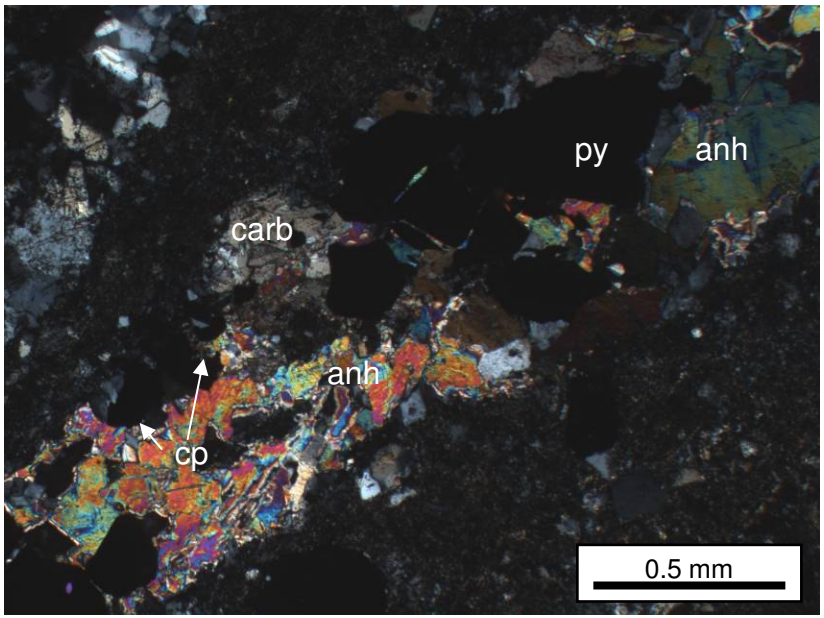
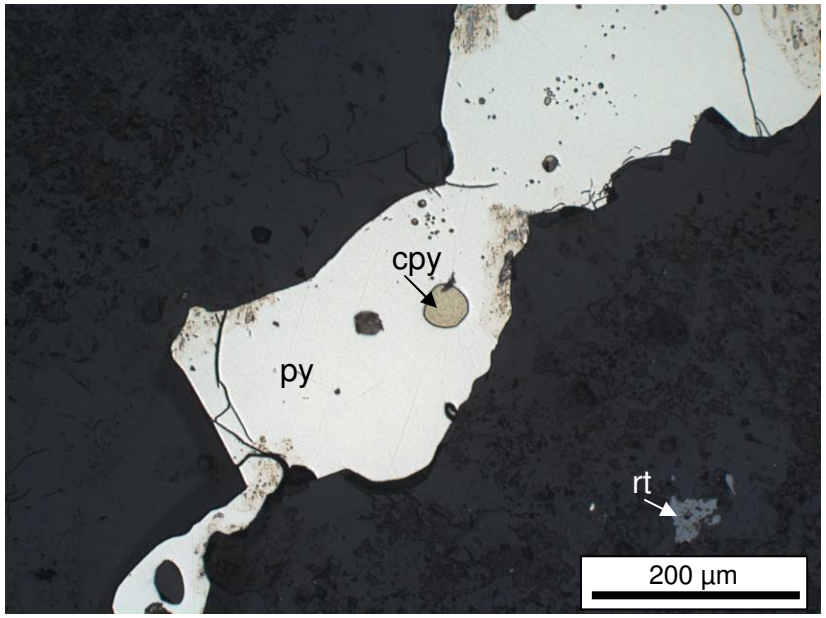
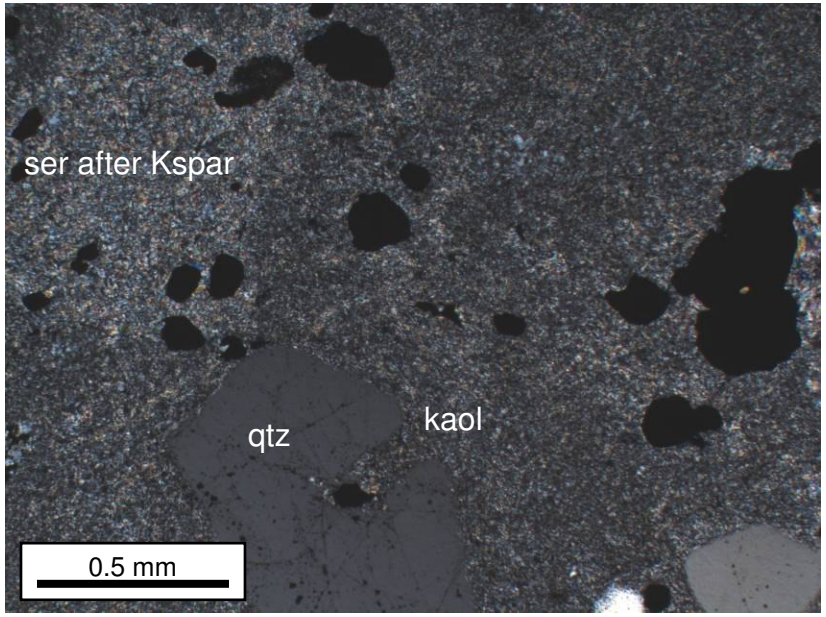


RES-2A 1415m; QEP- phyllic





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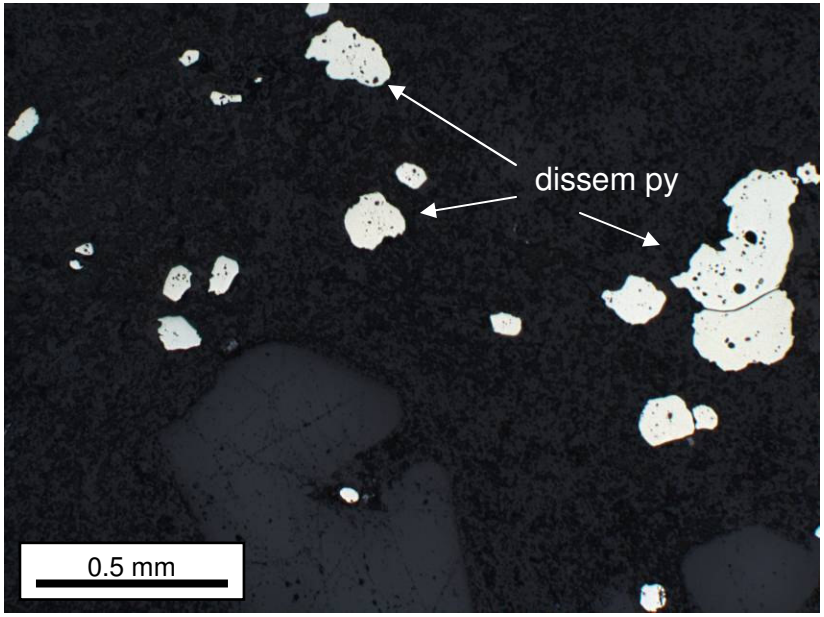

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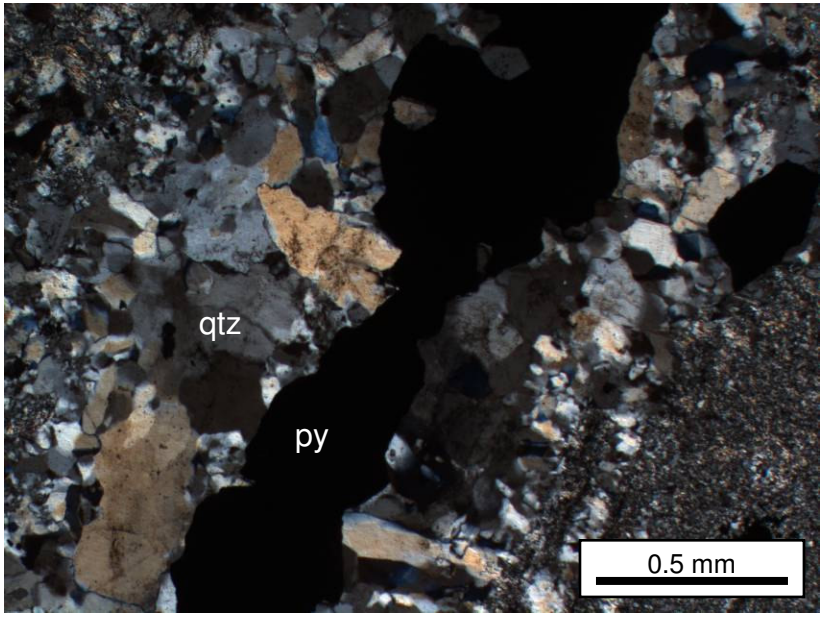

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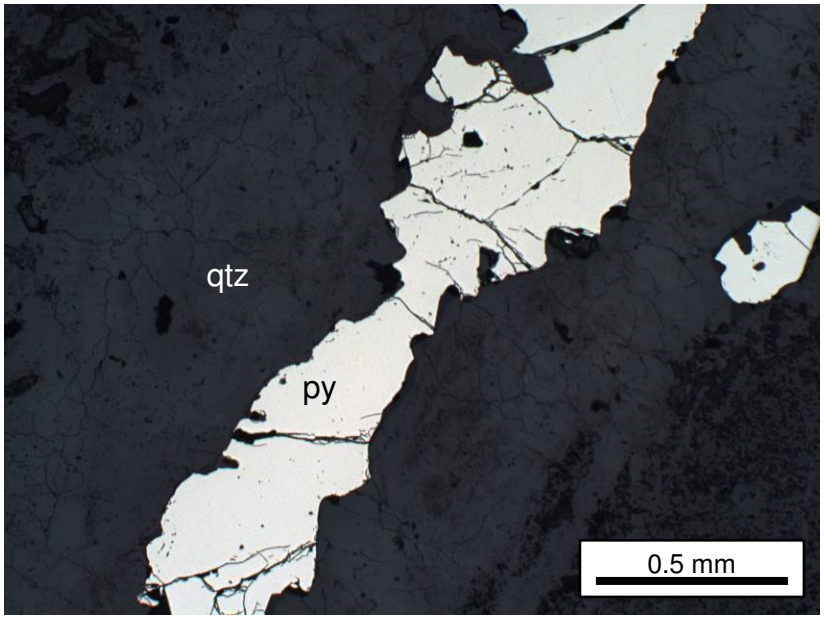
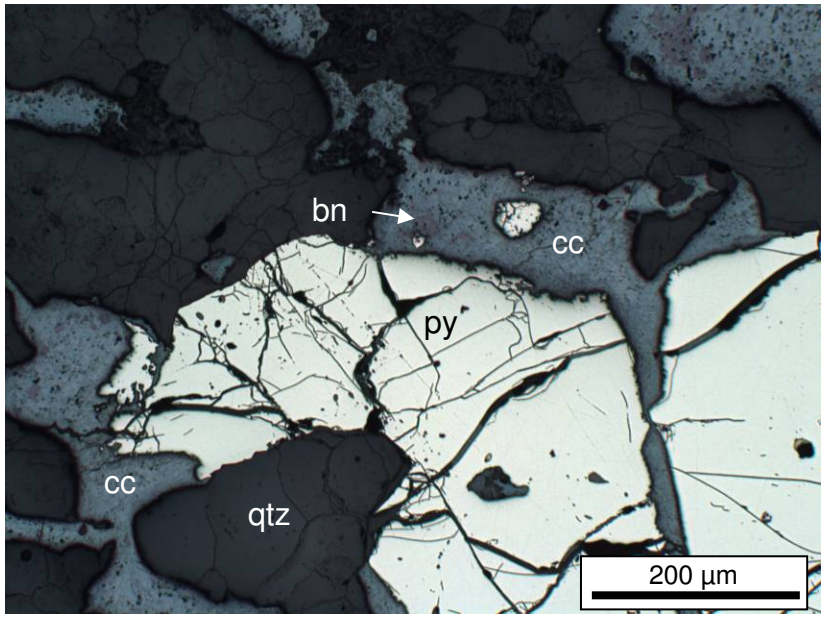
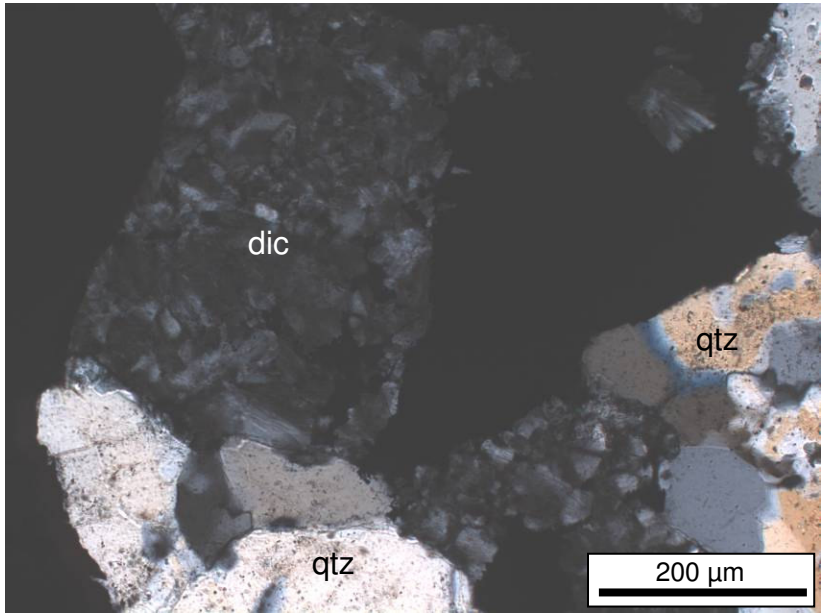


RES-2A 1454m; Kvs- phyllic





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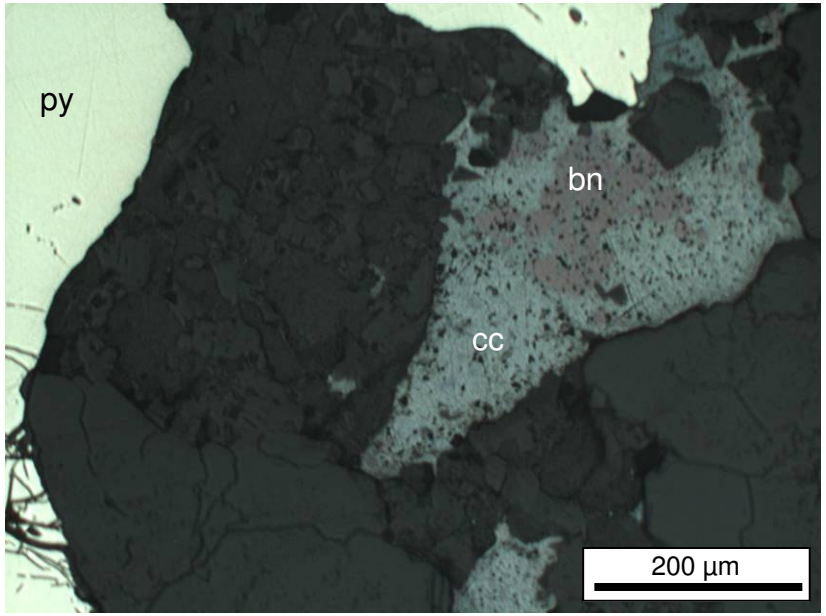

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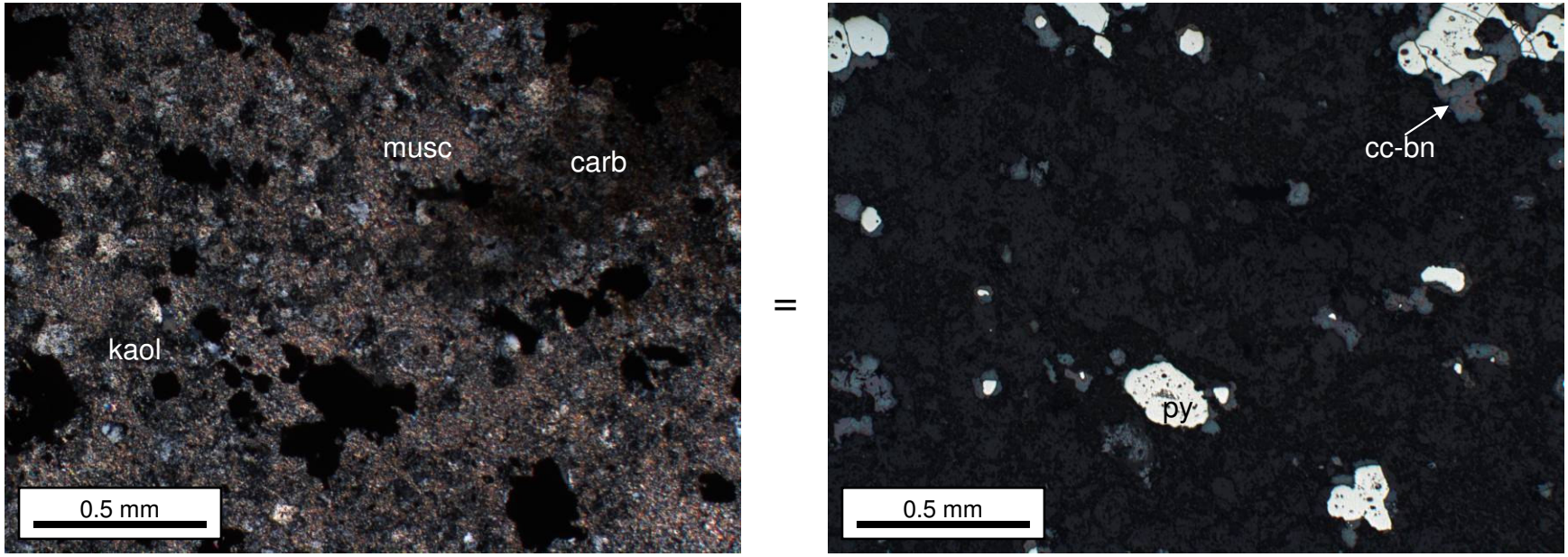
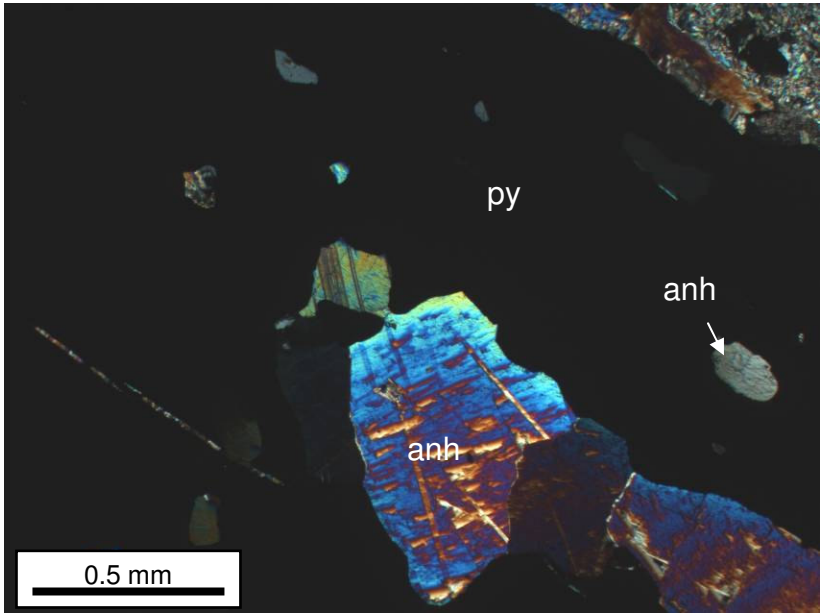


RES-2A 1927m; Diabase- potassic



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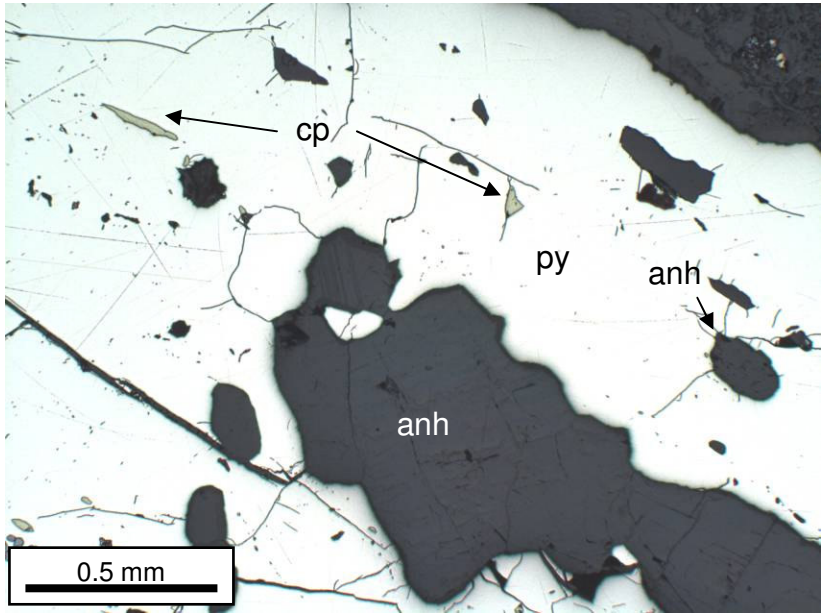

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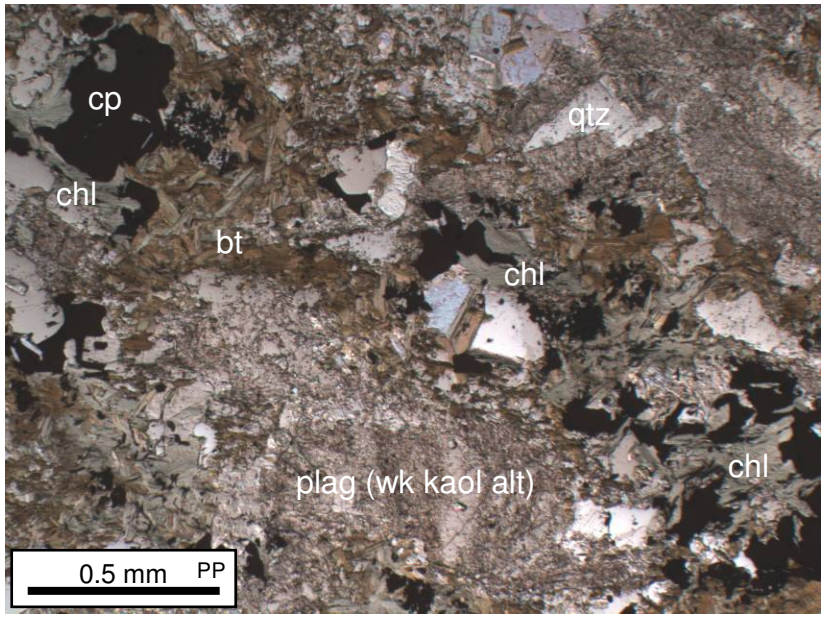

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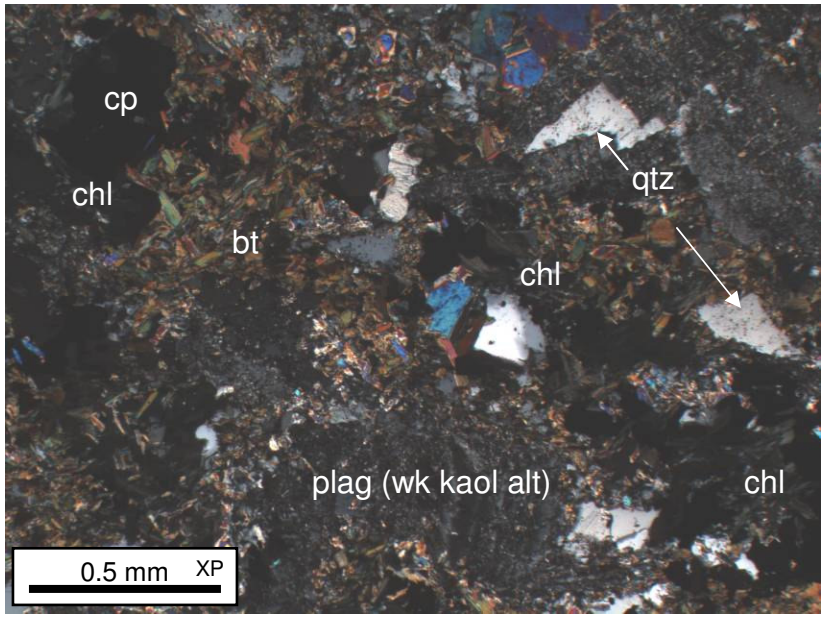

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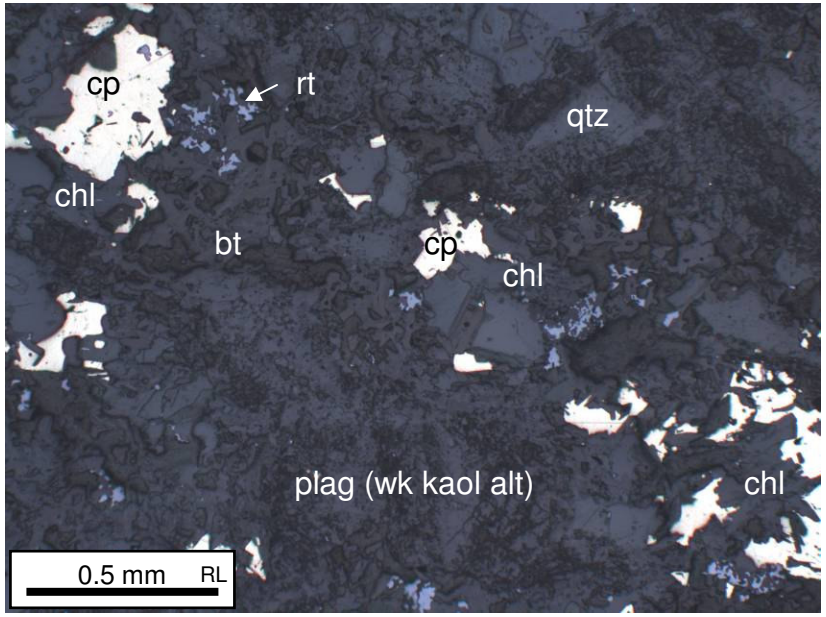
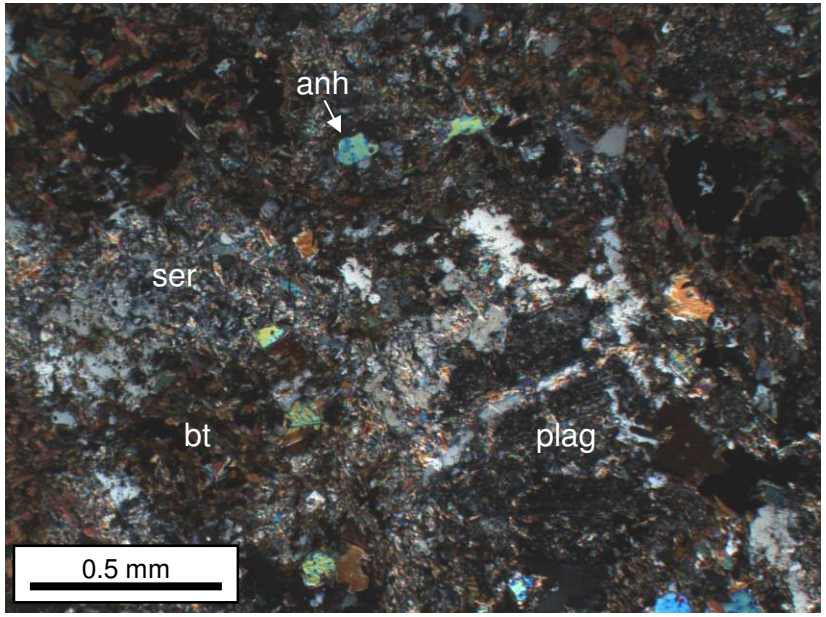
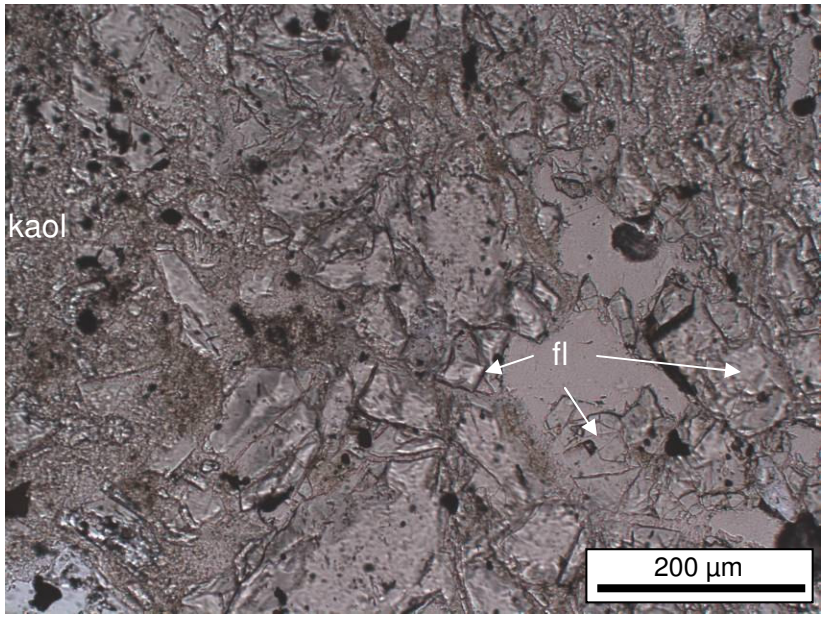
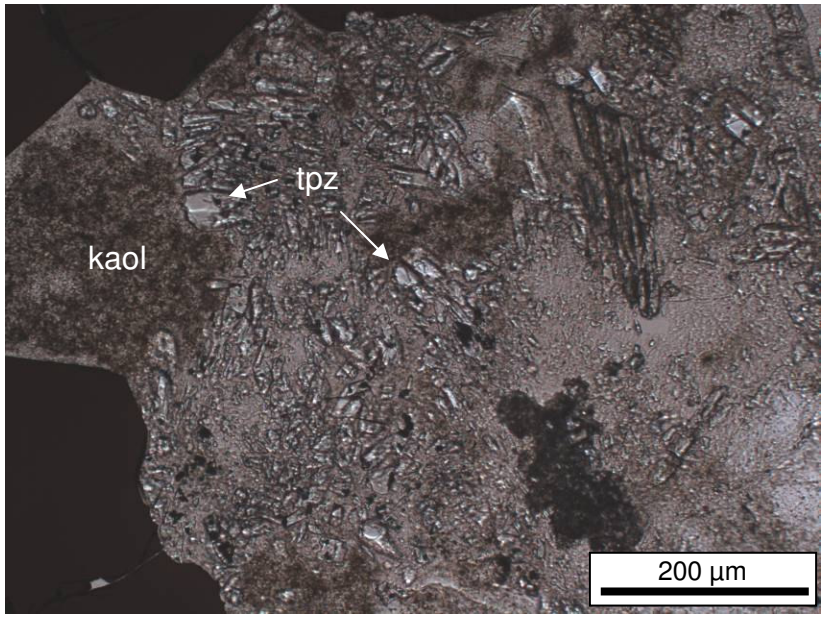
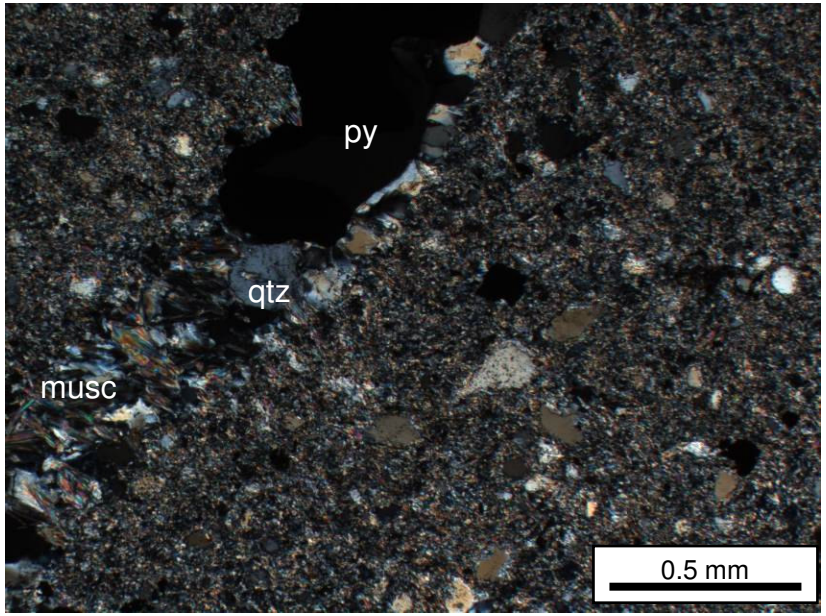




RES-6D 1899m; Quartzite (Kqs)- phyllic







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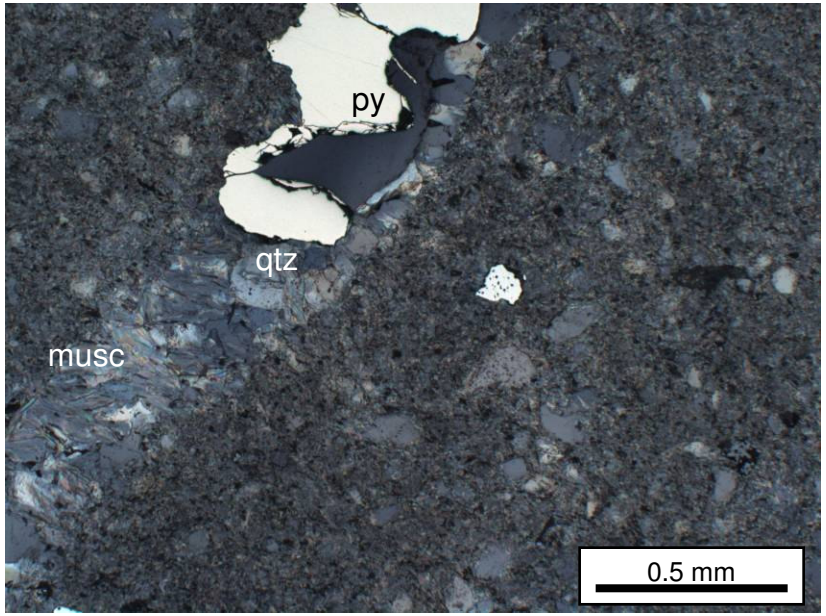
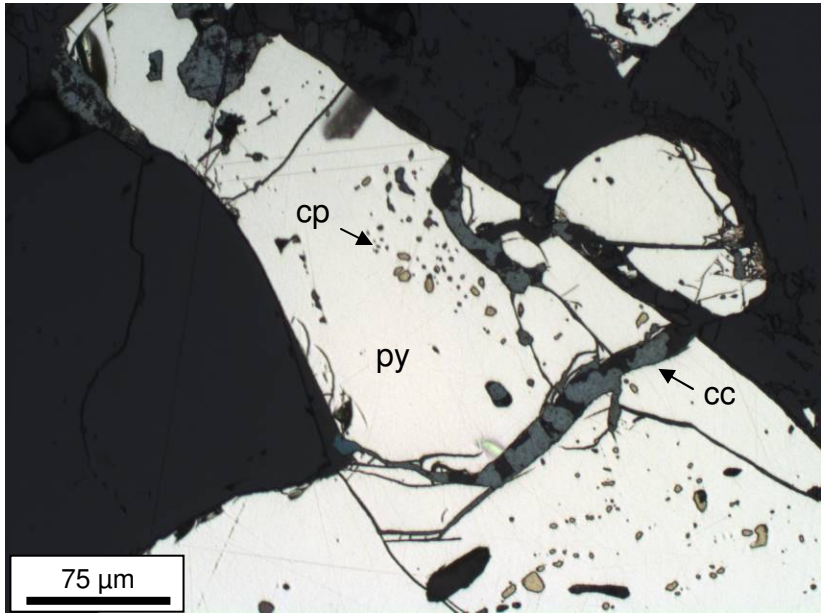
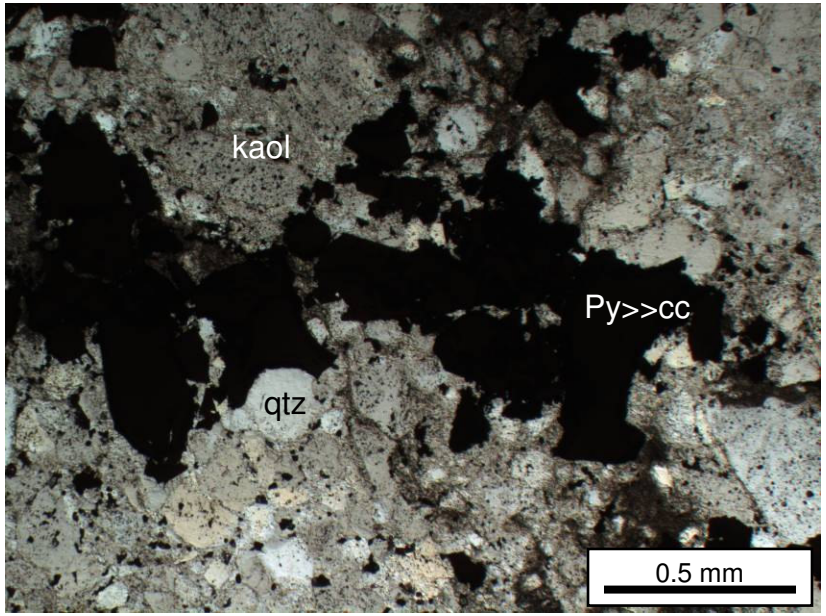


RES-5I 1653m; QEP- phyllic





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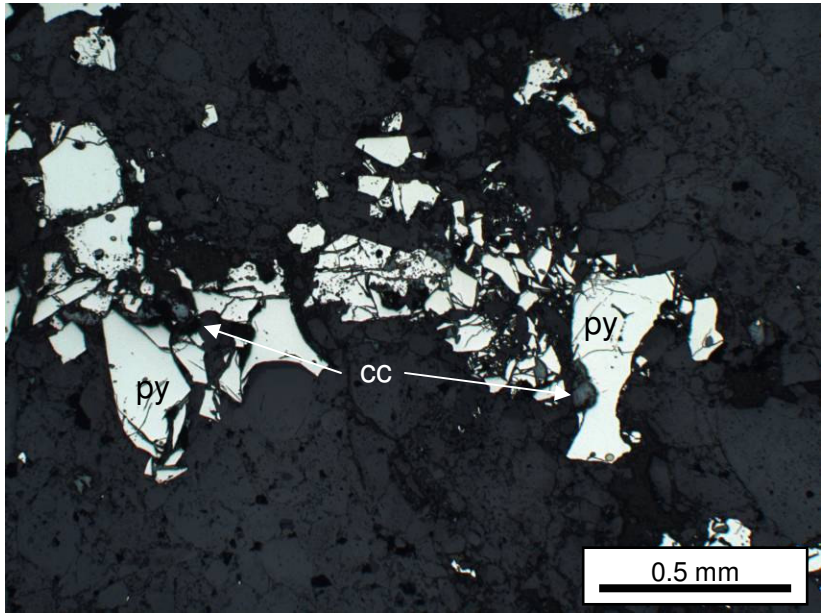
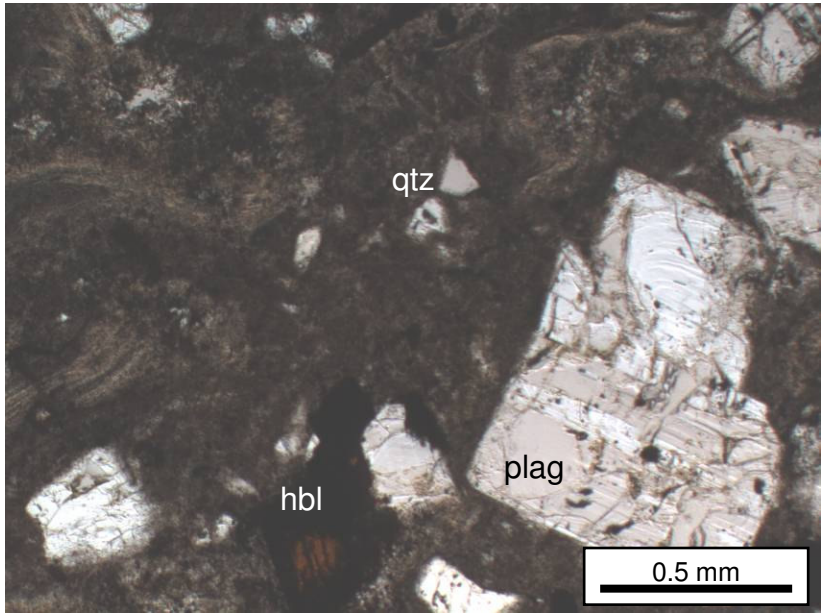
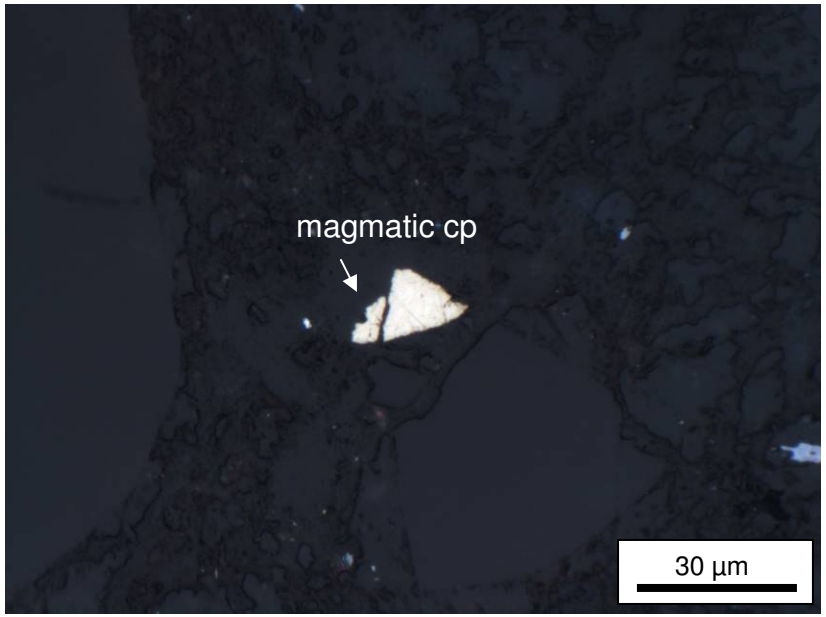
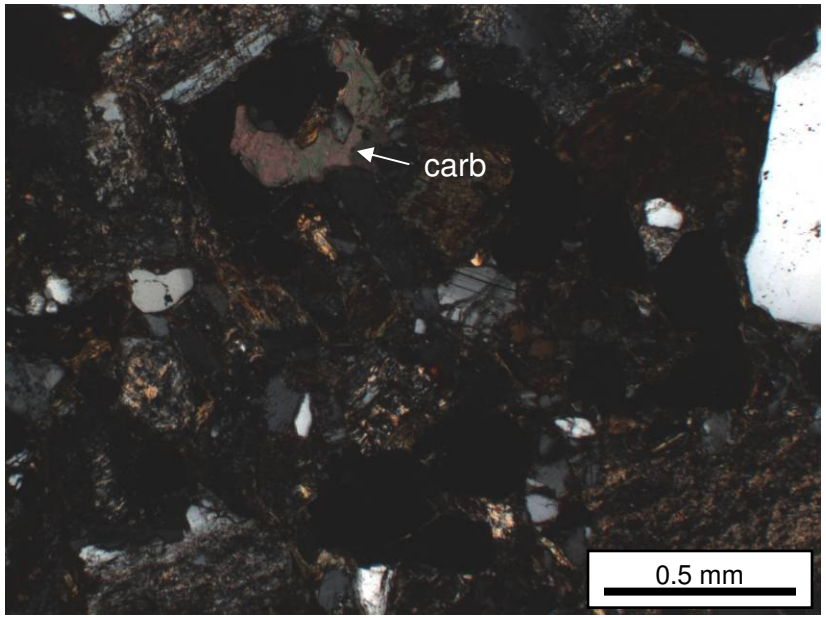


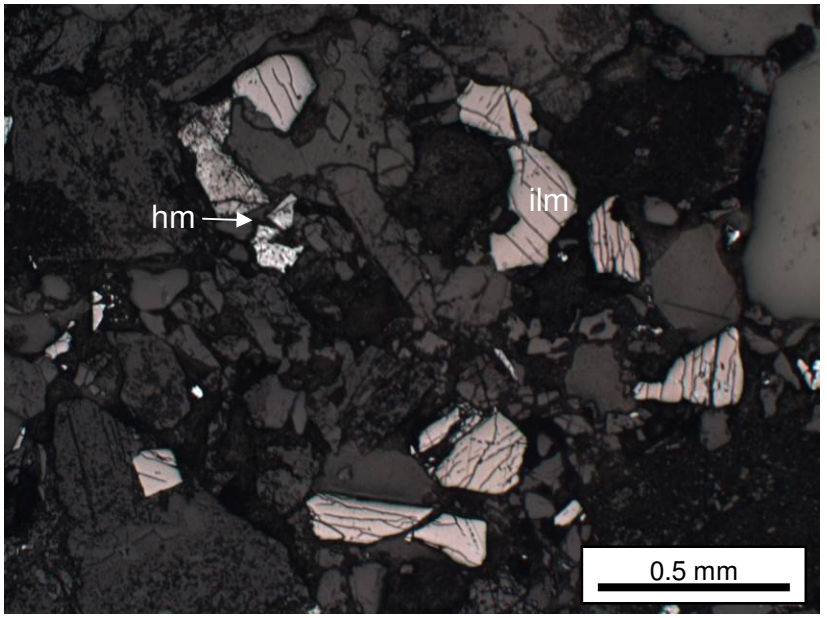
RES-09 279m; Tal- unaltered



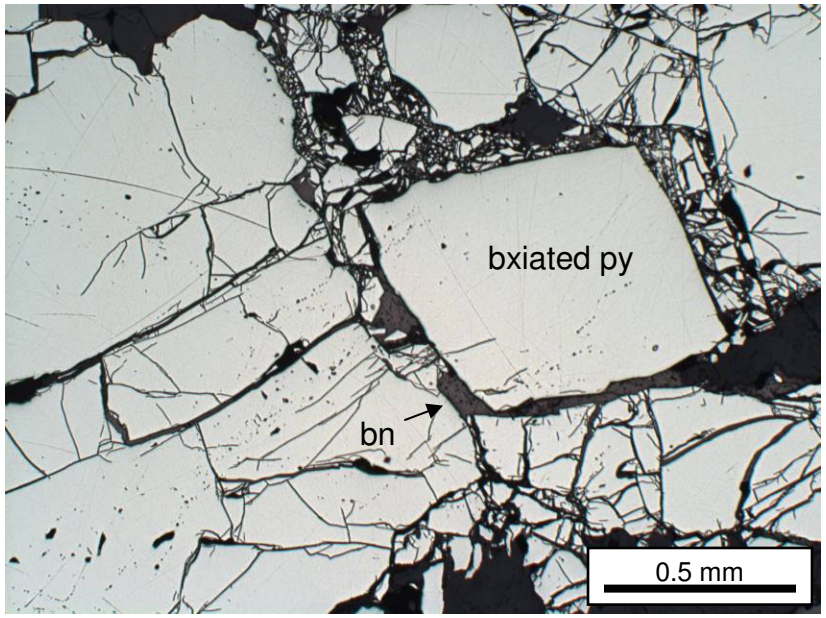


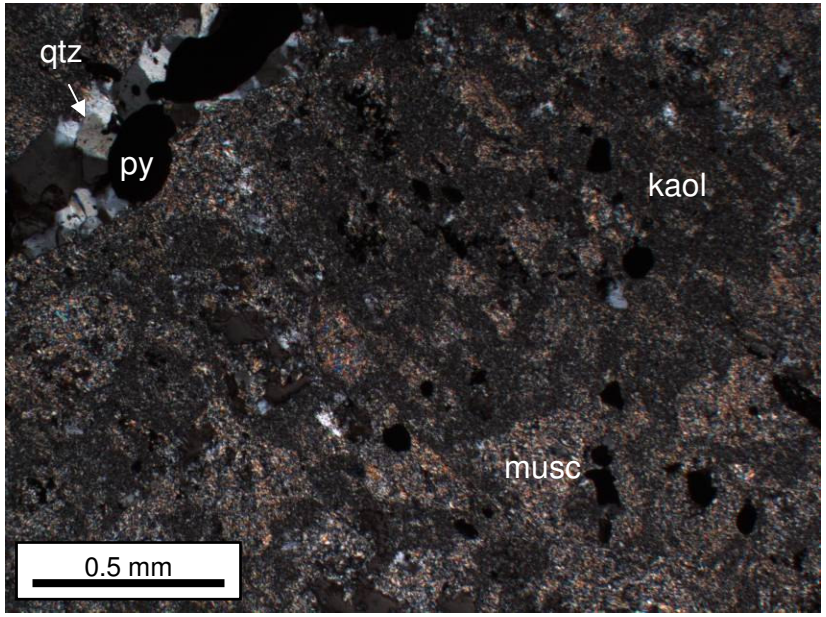
RES-09 645m; Tw- unaltered





RES-9E 1512m; Kvs- phyllic





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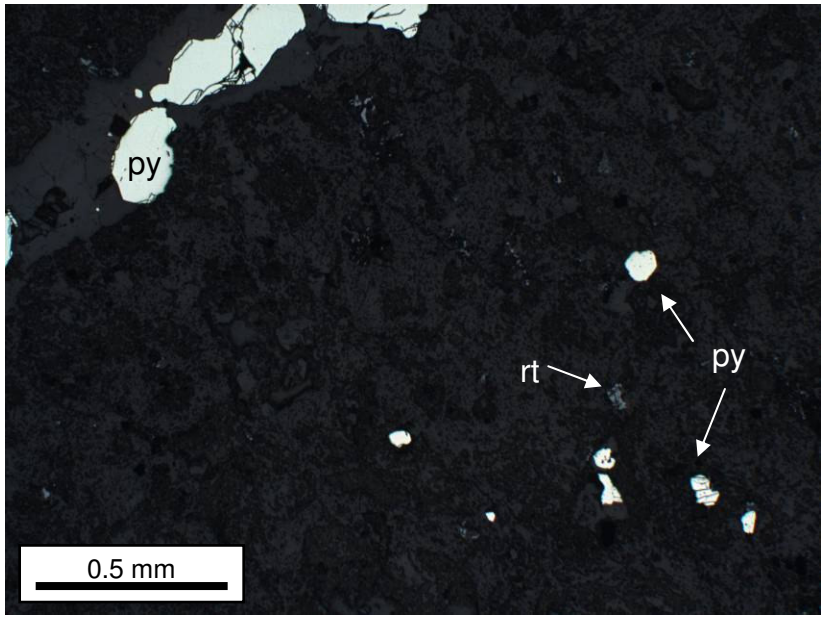
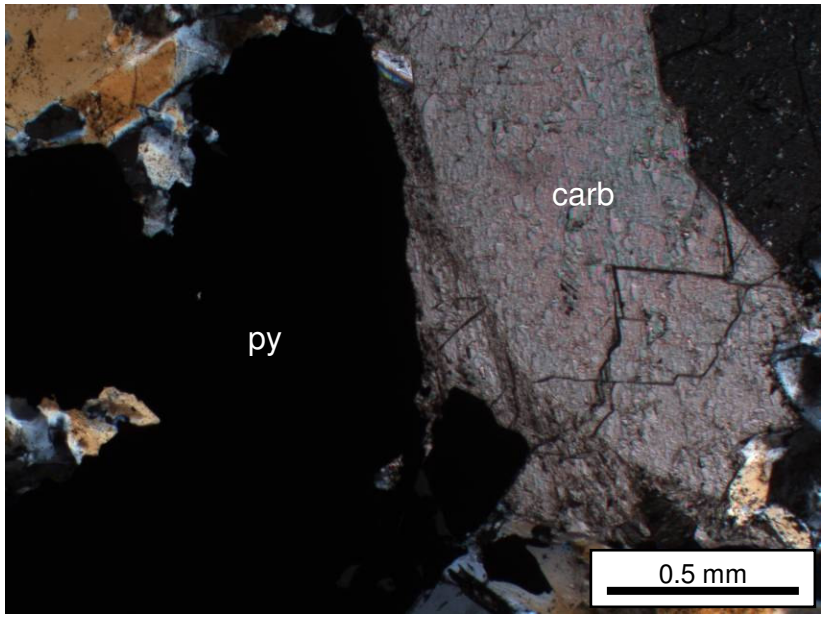
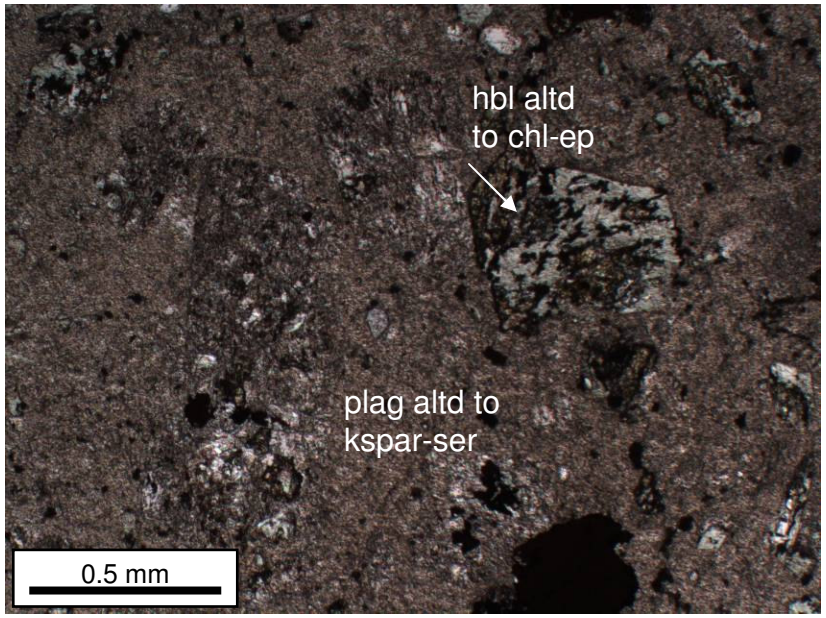
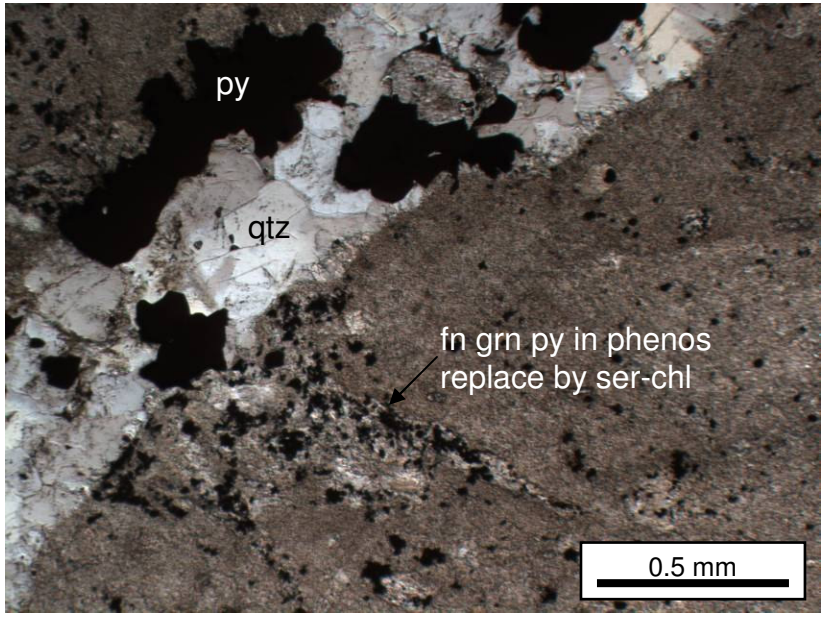


RES-8A 1717m; Kvs- propylitic







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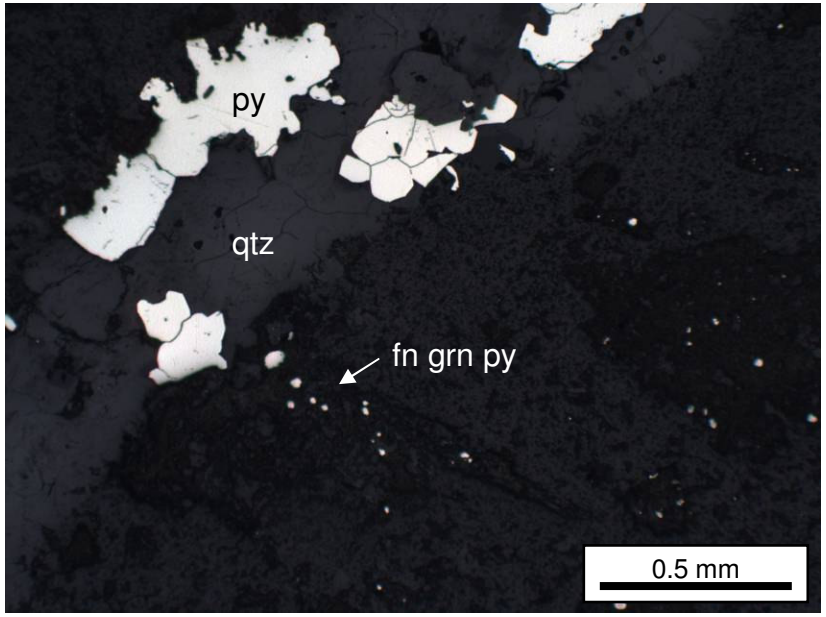
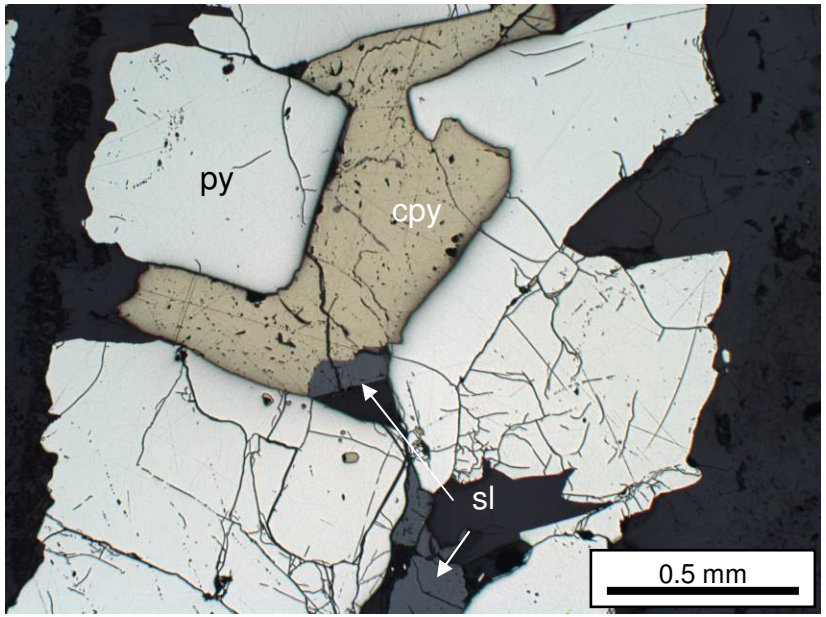
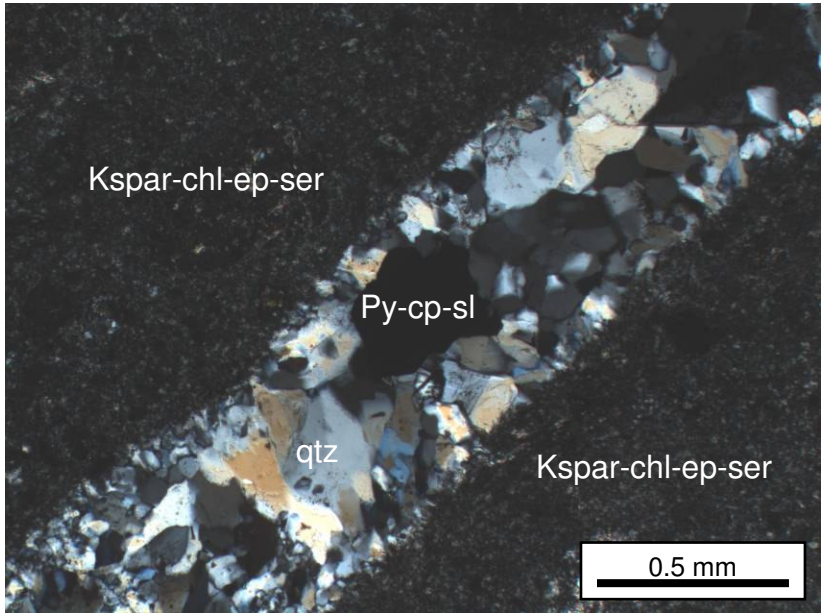


RES-8A 1717m; Kvs- propylitic





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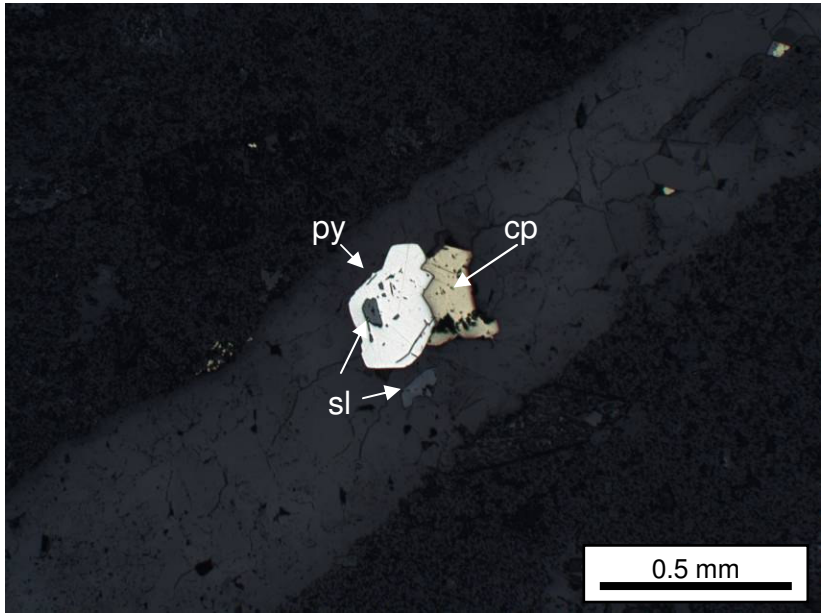
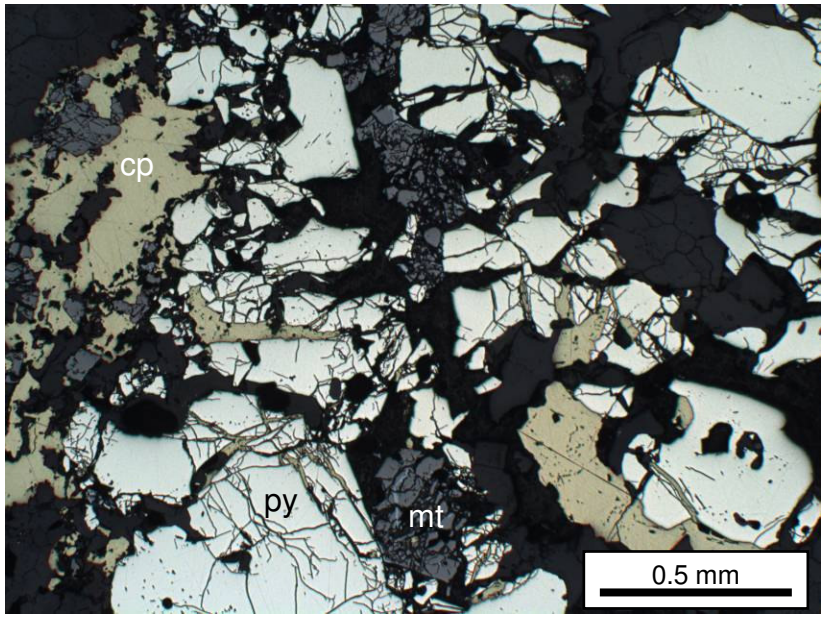
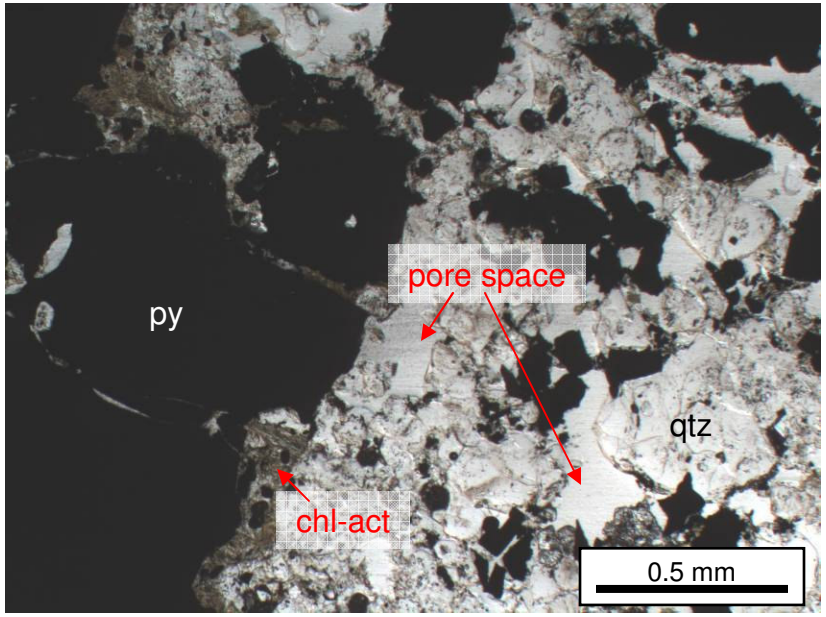


RES-9E 1830m; Dm- retrograde skarn





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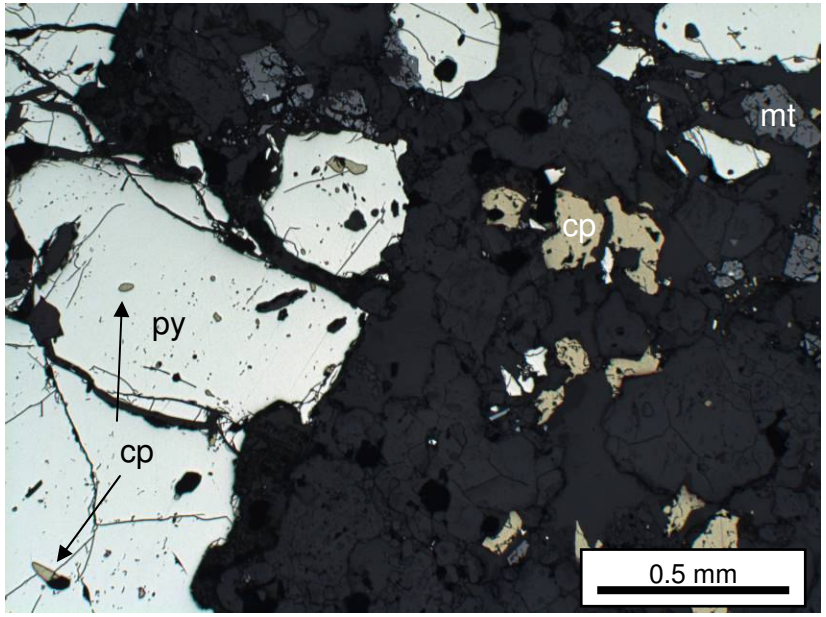
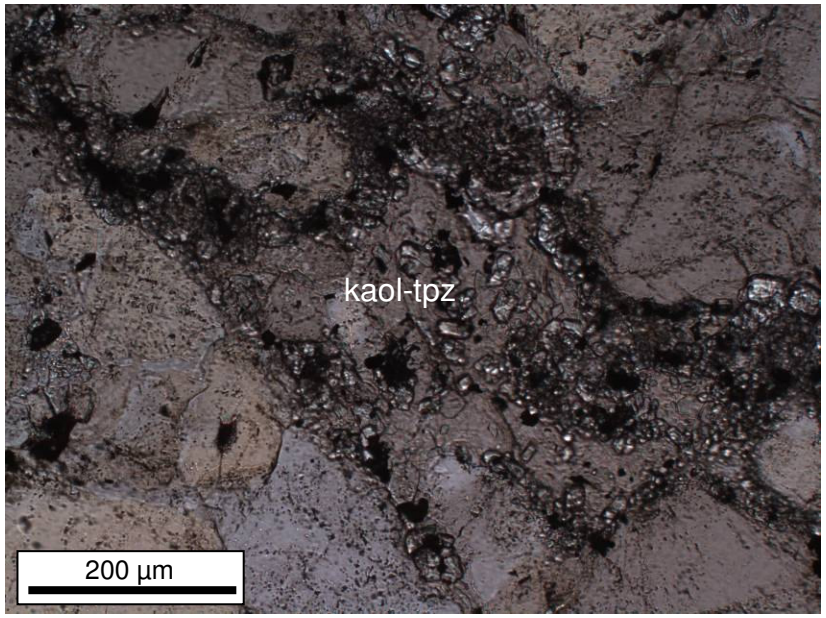
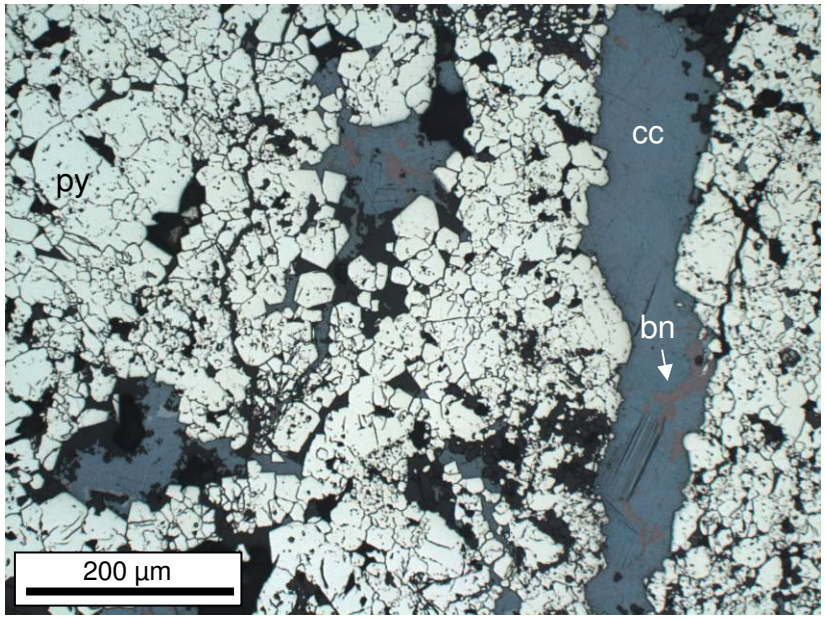
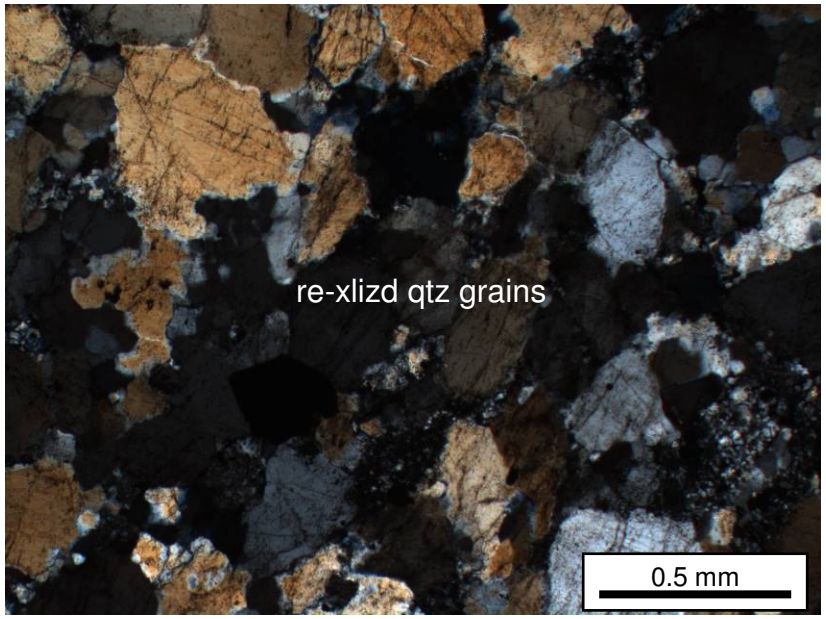


RES-9E 1741m; Quartzite (Kqs)- advanced argillic







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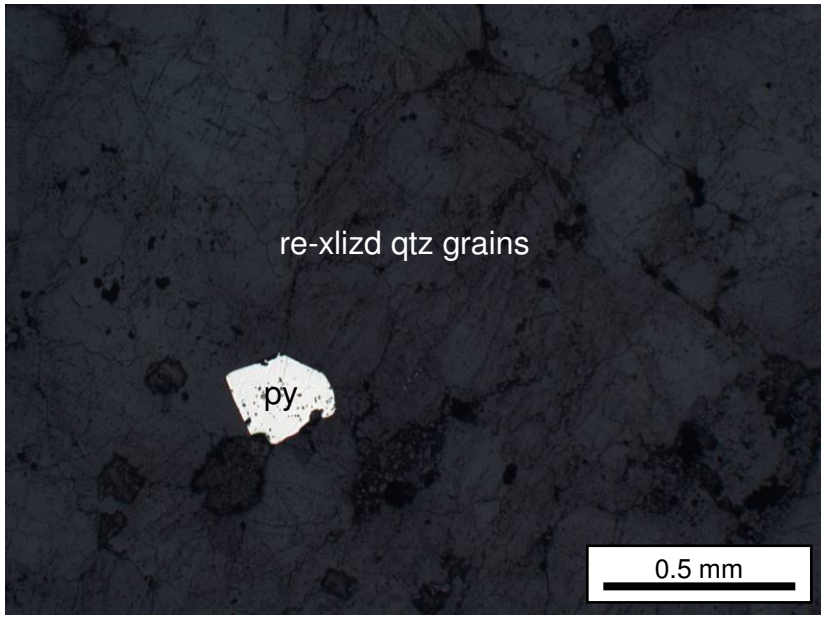
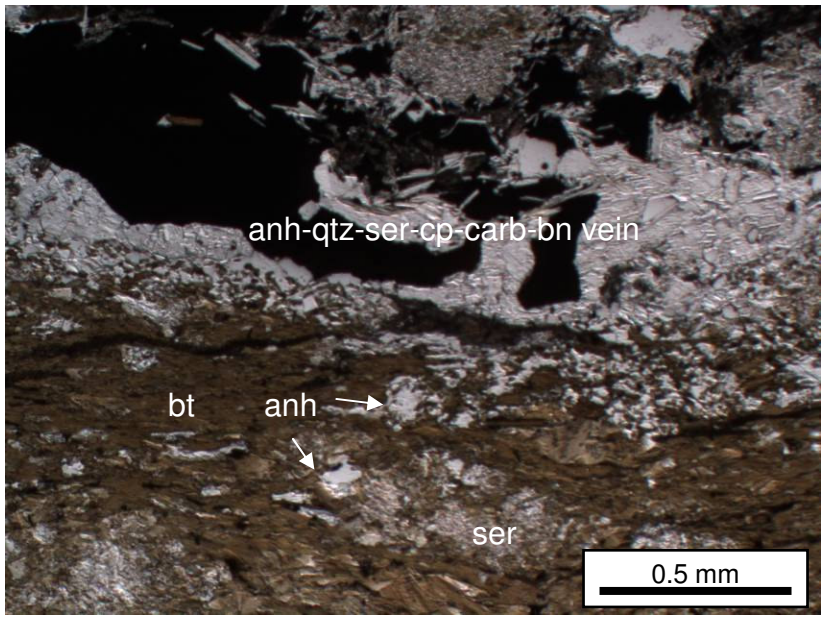


RES-9E 2071m; Diabase- potassic



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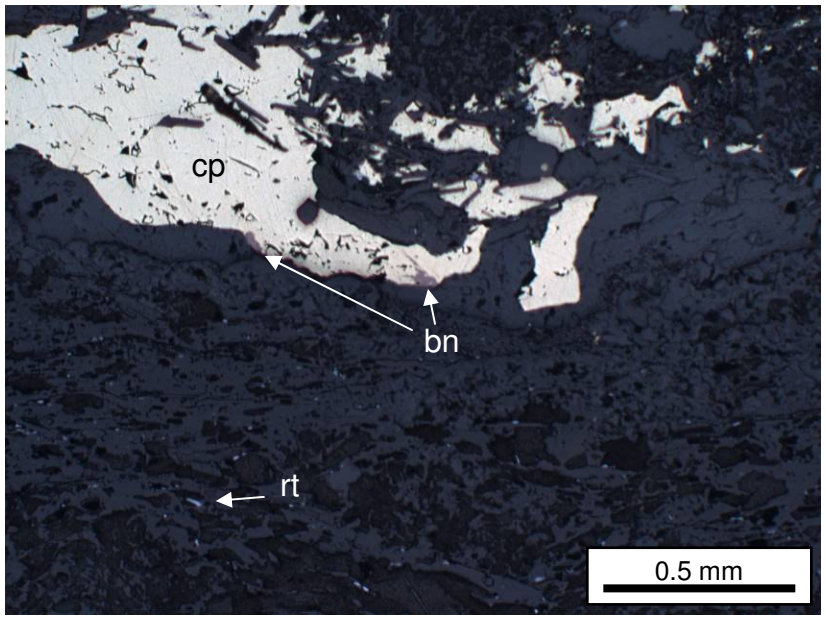
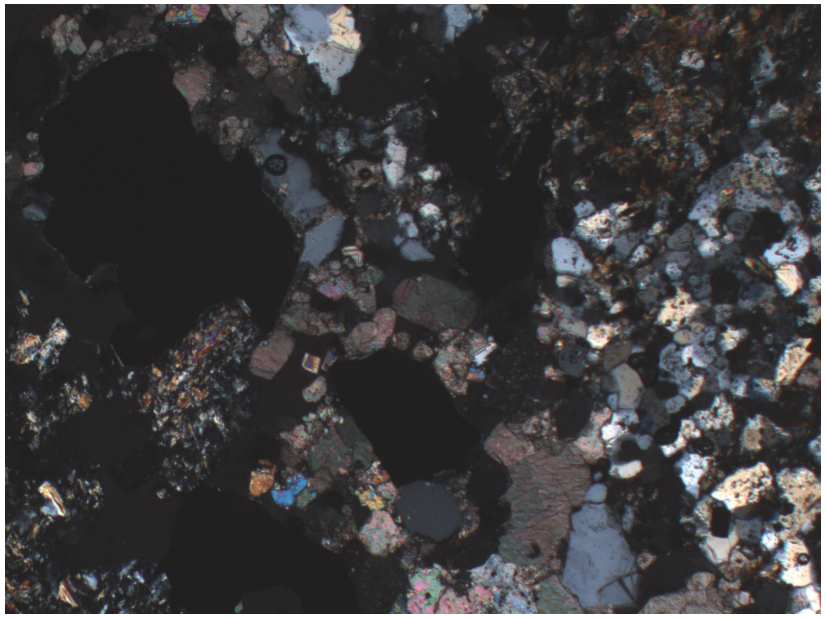
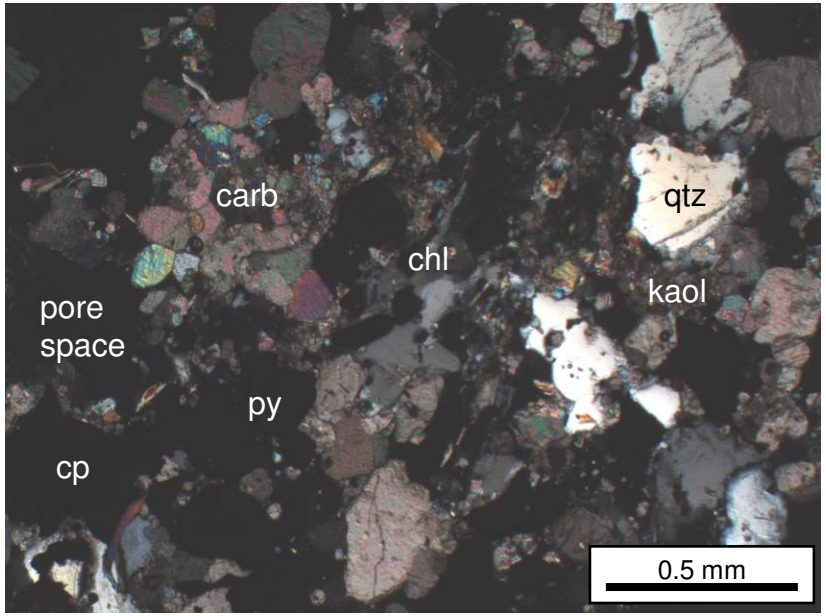


RES-9E 1899m; Dm- retrograde skarn





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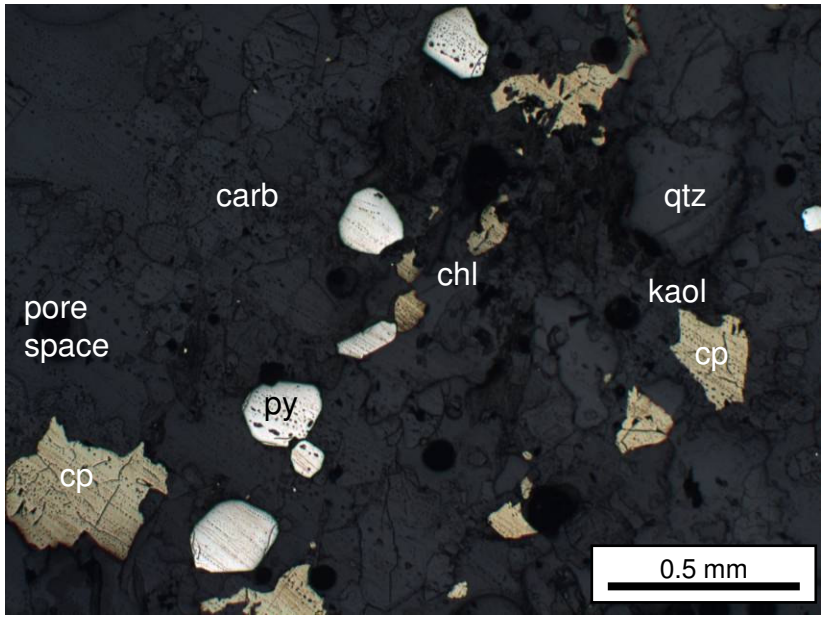
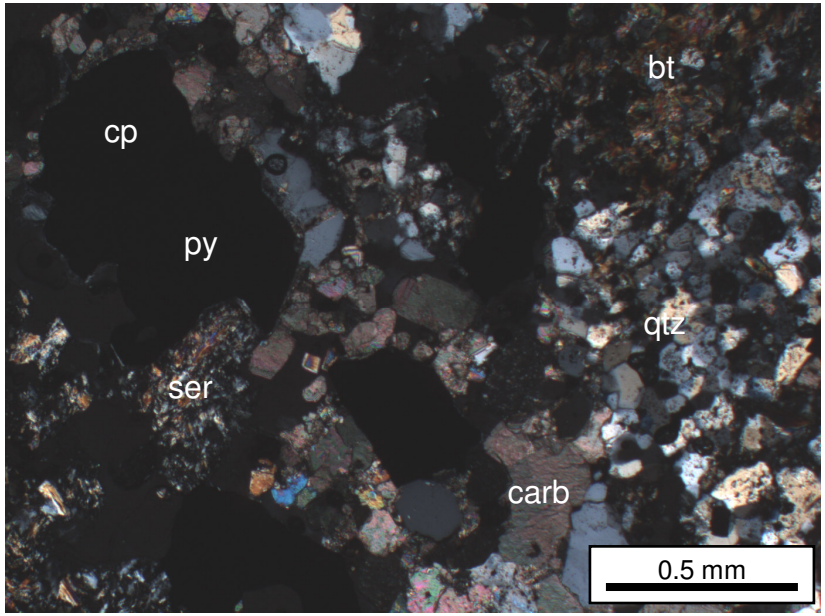


RES-9E 1899m; Dm- retrograde skarn



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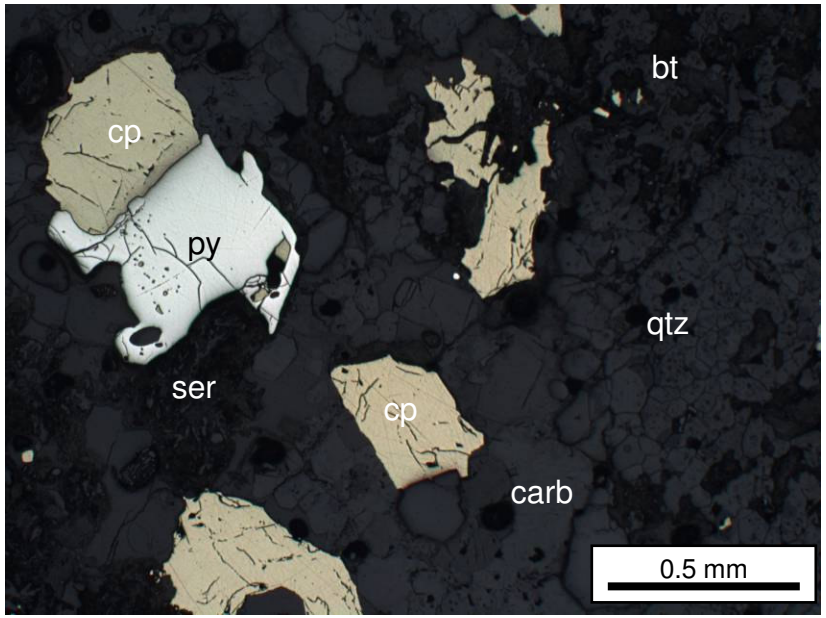

APPENDIX J
MINERALOGIC RESULTS FROM X-RAY DIFFRACTION AND PETROGRAPHIC ANALYSIS
(HUMIDITY CELL TESTING STARTING MATERIAL)

TABLE J-1
ELEMENTAL CONCENTRATIONS IN PRE-HUMIDITY CELL TESTS DETERMINED WITH PETROGRAPHIC EXAMINATION BY RESOLUTION COPPER

Test ID	Major Elements	Minor Elements	Trace Elements
2	quartz, biotite, K-feldspar, anhydrite	epidote, actinolite, pyrite (vein)	plagioclase, chlorite, carbonate, pyrite (diss), chalcopyrite (diss), chalcopyrite (vein), magnetite
11	quartz, kaolinite, muscovite (ser)	pyrite (diss), pyrite (vein)	dickite, rutile, chalcopyrite (vein), bornite, chalcocite
12	quartz, kaolinite, muscovite (ser)	pyrite (diss), pyrite (vein), chalcocite	carbonate, dickite, chalcopyrite (vein), bornite
14	biotite, plagioclase	quartz, anhydrite, muscovite (ser), chalcopyrite (vein)	chlorite, rutile, pyrite (diss), pyrite (vein), chalcopyrite (diss), bornite, molybdenite
21	quartz	pyrite (vein)	topaz, kaolinite, muscovite (ser), bornite, chalcocite
28	quartz, muscovite (ser)	kaolinite	dickite, topaz, fluorite, rutile, pyrite (diss), pyrite (vein), chalcopyrite (diss), molybdenite
34	K-feldspar, muscovite (ser)	quartz, epidote, chlorite, pyrite (vein)	carbonate, rutile, kaolinite, pyrite (diss), chalcopyrite (diss), chalcopyrite (vein), sphalerite
38	quartz, plagioclase	hornblende	rutile, chalcopyrite (diss), magnetite, hematite
39	-	carbonate, illite	rutile, magnetite, hornblende
44	kaolinite, muscovite (ser)	quartz, pyrite (diss), pyrite (vein)	dickite, chalcopyrite (diss), bornite
49s	quartz	kaolinite, pyrite (vein)	dickite, topaz, pyrite (diss), bornite, chalcocite
50	quartz	chlorite, pyrite (vein), chalcopyrite (diss)	actinolite, muscovite (ser), pyrite (diss), chalcopyrite (vein), magnetite, hornblende
52s	quartz, biotite, carbonate	kaolinite, muscovite (ser)	chlorite, fluorite, pyrite (diss), pyrite (vein), chalcopyrite (diss), chalcopyrite (vein), molybdenite, magnetite, hornblende
54	biotite, muscovite (ser)	quartz, anhydrite	carbonate, rutile, kaolinite, chalcopyrite (diss), chalcopyrite (vein), bornite

Notes: Major elements represent concentrations ≥15%. Minors elements represent concentrations <15% but ≥5%. Trace elements represent concentrations <5%. ser = sericite; diss = disseminated

TABLE J-2
PYRITE GRAIN SIZES AND COMMENTS RECORDED DURING PETROGRAPHIC EXAMINATION BY RESOLUTION COPPER

Test ID	Comments	Pyrite Grain Size Range (microns)	Pyrite Grain Size Average (microns)
2	py occurs as relatively coarse grains in veins, doesn't appear to be encapsulated, but shares grain boundaries with epi-anh-qtz-Kspar; epi-act-Kspar alt of matrix and phenocrysts, o/p by bt; some veins contain epi-act; local cp-po "eggs" in py; py in veins generally coarser than disseminated grains	10-2000	500
11	Fspar and bt phenos altered to musc; groundmass altered to kaol>>musc>dic; coarse disseminated py; py in veins is very coarse, locally as centerlines in fine qtz, but should liberate easily with crushing; local cp and bn "eggs" in py; minor cc-bn	20-2500	1500 (vein) 500 (dissem)
12	Patchy very fine grained (Fe?)-carbonate alteration replacing possible fspar grains with ser-kaol; complex intergrowths of cc-bn are definitely getting their sulfur from and replacing py, and in veins are associated with dickite; disseminated py grains are ragged and commonly in contact with bn-cc grains; py in veins is coarse; minor suspected carbonate may have effect on acid generation	30-2500	1000 (vein) 250 (dissem)
14	anhydrite grains commonly trapped in coarse vein py, though locally there are fractures in the py letting anh in (this vein is late and imparts ser after plag in wall rock); chl locally in contact with sulfides; cp rich veins are in equilibrium with bt, minor chl; very weak dissem py, thick py vein cuts across one corner of sample	200-1500	1000 (vein) 250 (dissem)
21	Appears to be a piece of brecciated massive quartz vein; two episodes of qtz formation, the second is much finer grained and introducted kaol>>ser and sulfides in certain fractures; py is brecciated and locally very fine grained, full of cp-bn-cc inclusions, and rimmed by cc>>bn; how was Cu recovery in this area?; there's another mineral associated with the sulfides and kaolinite that I can't identify (might be topaz)	5-1500	200
28	qtz-kaol-fl-py vein contains unidentified gray opaque; qtz grains are angular to subangular and only make up ~30% of Kqs (matrix supported)	15-2500	1000 (vein) 200 (dissem)
34	most py in quartz veins; coarseness of py grains depends on vein thickness (coarser with increasing vein thickness); much fine kspar alteration; fine grained disseminated py commonly associated with phenos replaced by ser-chl; minor calcite in qtz-sulfide vein	10-1750	600 (vein) 150 (dissem)
38	traces of po-cp!; phenocrysts (qtz-plag-hbl) add up to ~65% of rock mass, the rest is flattened fine (plag-rich?) groundmass; hematite partially replaces octahedral mt; thin seams of fine plag-qtz-welded groundmass define foliation	NA	
39	Clast and grain supported sandy cgl; clasts of diabase(commonly with act replacing cpx)>>schist>qtzite in a sandy matrix of plag>opaques (il-mt-hm)>qtz>hbl, locally cemented by carbonate (<5%); heavy mineral grains locally define bedding	NA	

TABLE J-2
PYRITE GRAIN SIZES AND COMMENTS RECORDED DURING PETROGRAPHIC EXAMINATION BY RESOLUTION COPPER (continued)

Test ID	Comments	Pyrite Grain Size Range (microns)	Pyrite Grain Size Average (microns)
44	bn commonly fills fracs and brecciated zones in vein py; some variation in disseminated py grain sizes, but most pretty round and coarse, not trapped, and liberatable; brecciation of py in vein produces some very fine particles; assymetric qtz-dic selvedge on this qtz-py-(bn) vein; fspar grain shapes in matrix altered to musc, and groundmass to kaol (py mostly in kaolinitic groundmass); very few qtz grains, most quartz in veins	5-2500	750 (vein) 200 (dissem)
49s	qtz grain boundaries are recrystallized in this sample, with kaol-dic-tpz and sulfides filling local interstices; a couple of zircon grains present; py in a vein is finely brecciated (and locally recrystalized?-funky texture) and filled with cc>bn mixture	10-1000	150 (vein) 200 (dissem)
50	pore space comprises ~15% of sample; the rest consists of granular qtz, chl-act mixtures, and sulfides+mt and minor hm; there are a couple of ribbons/veins of coarse grained py and cp, but much of the sulfide is fine grained and disseminated; no carbonate or anh (pore space is likely to be sites of dissolved anh); paragenesis appears to be py-->mt-->cp; py and mt are commonly brecciated with fracture space filled with cp; strong brecciation limits py grain size and produces angular fragments	5-1200	300
52s	5% pore space likely from dissolved anh; qtz-carb-sulfide-bt veins with py-cp in contact with carb; abundant carb and hardly any py; should generate alkaline tailings; abundant fine grained cubes of fluorite	20-750	200
54	Strong foliation imparted by aligned bt grains; minor apatite in relict plag sites replaced by ser; patchy Fe-carb in veins with cp and locally replacing bt; no py in sample	NA	NA

TABLE J-3
ELEMENTAL CONCENTRATIONS IN PRE-HUMIDITY CELL TESTS DETERMINED WITH X-RAY DIFFRACTION BY MWH

Test ID	Major Elements	Minor Elements	Trace Elements
2	quartz, plagioclase (labradorite)	K-Feldspar (microcline), biotite, muscovite	plagioclase (albite), plagioclase (anorthite), ankerite, alunite, illite, chlorite
11	quartz, muscovite	biotite	K-feldspar (microcline), plagioclase (albite), plagioclase (anorthite), pyrite, alunite, kaolinite, chlorite
12	NA	NA	NA
14	quartz, muscovite	plagioclase (albite), biotite	K-feldspar (microcline), plagioclase (labradorite), plagioclase (anorthite), pyrite, chalcopyrite, chlorite
21	quartz, muscovite	-	pyrite, kaolinite
28	quartz, muscovite	kaolinite	plagioclase (albite), pyrite, alunite
34	quartz, muscovite	biotite	K-feldspar (microcline), plagioclase (albite), plagioclase (anorthite), pyrite, alunite, chalcopyrite, kaolinite, illite, chlorite
38	quartz, plagioclase (labradorite)	K-feldspar (microcline), plagioclase (anorthite), illite	plagioclase (albite), ankerite, alunite, goethite, celestine, muscovite
39	quartz, muscovite	biotite	K-feldspar (microcline), plagioclase (albite), plagioclase (labradorite), plagioclase (anorthite), magnesite, pyrite, alunite, chalcopyrite, kaolinite, illite, chlorite
44	quartz, muscovite	kaolinite	plagioclase (albite), pyrite, alunite, sphalerite
49s	quartz	pyrite	plagioclase (albite), kaolinite
50	quartz	-	pyrite, chalcopyrite, kaolinite, illite, chlorite, muscovite
52s	quartz, muscovite	plagioclase (albite), biotite	K-feldspar (microcline), plagioclase (labradorite), plagioclase (anorthite), magnesite, pyrite, chalcopyrite, kaolinite, chlorite, brucite
54	quartz, muscovite	biotite	K-feldspar (microcline), plagioclase (albite), plagioclase (anorthite), pyrite, alunite, rutile, chalcopyrite, kaolinite, chlorite

Note: Major elements represent concentrations ≥15%. Minors elements represent concentrations <15% but ≥5%. Trace elements represent concentrations <5% but ≥1%. Detection limit is about 1% so minerals reported at lower concentrations were not included. NA = not analyzed

APPENDIX K
MINERALOGIC RESULTS FROM X-RAY DIFFRACTION AND PETROGRAPHIC ANALYSIS
(HUMIDITY CELL TESTING POST-MORTEM MATERIAL)

APPENDIX K
ELEMENTAL CONCENTRATIONS IN POST-HUMIDITY CELL TESTS DETERMINED WITH X-RAY DIFFRACTION BY MWH

Test ID	Major Elements	Minor Elements	Trace Elements
2	quartz, muscovite	biotite	K-feldspar (microcline), plagioclase (albite), plagioclase (oligoclase), plagioclase (labradorite), plagioclase (anorthite), pyrite, anhydrite, alunite, sphalerite, ferrihydrite, hornblende, chalcopyrite
11	quartz, muscovite	-	plagioclase (albite), pyrite, alunite, hornblende, kaolinite
11 (crust)	quartz, muscovite	-	plagioclase (oligoclase), pyrite, alunite, hornblende, kaolinite
12	quartz, biotite	muscovite	K-feldspar (microcline), plagioclase (labradorite), plagioclase (anorthite), calcite, anhydrite, gypsum, alunite, hematite, sphalerite, ferrihydrite, chalcopyrite, halloysite, kaolinite, smectite, chlorite
12 (crust)	quartz, muscovite	biotite	K-feldspar (microcline), pyrite, anhydrite, alunite, sphalerite, ferrihydrite, hornblende, kaolinite, illite
14	quartz, biotite	muscovite, gypsum	K-feldspar (microcline), plagioclase (albite), plagioclase (labradorite), plagioclase (anorthite), calcite, anhydrite, hematite, ferrihydrite, chalcopyrite, smectite, chlorite
21	quartz, muscovite	illite	pyrite, anhydrite, alunite, sphalerite, ferrihydrite, chlorite
21 (crust)	quartz, muscovite	illite	plagioclase (albite), plagioclase (oligoclase), plagioclase (anorthite), pyrite, anhydrite, alunite, ferrihydrite, smectite, chlorite
28	quartz, muscovite	illite	K-feldspar (microcline), pyrite, sphalerite, ferrihydrite, halloysite, kaolinite,
28 (crust)	quartz	illite, muscovite	K-feldspar (microcline), plagioclase (albite), plagioclase (oligoclase), plagioclase (labradorite), calcite, pyrite, alunite, hematite, ferrihydrite, chalcopyrite, halloysite, kaolinite, smectite, biotite, chlorite
34	quartz	illite, muscovite, chlorite	K-feldspar (microcline), plagioclase (albite), plagioclase (oligoclase), plagioclase (labradorite), dolomite, pyrite, anhydrite, alunite, hematite, ferrihydrite, chalcopyrite, halloysite, kaolinite, smectite
34 (wall ppt)	quartz	illite, muscovite, chlorite	K-feldspar (microcline), plagioclase (albite), plagioclase (oligoclase), plagioclase (labradorite), plagioclase (anorthite), dolomite, pyrite, hematite, ferrihydrite, chalcopyrite

APPENDIX K
ELEMENTAL CONCENTRATIONS IN POST-HUMIDITY CELL TESTS DETERMINED WITH X-RAY DIFFRACTION BY MWH (continued)

Test ID	Major Elements	Minor Elements	Trace Elements
38	quartz, muscovite	illite	K-feldspar (microcline), plagioclase (albite), plagioclase (oligoclase), plagioclase (labradorite), plagioclase (anorthite), pyrite, alunite, sphalerite, ferrihydrite, halloysite, kaolinite,
39	plagioclase (albite), plagioclase (labradorite), ferrihydrite, muscovite	quartz, plagioclase (anorthite), hornblende	K-feldspar (microcline), calcite, sphalerite, smectite, chlorite
44	quartz, muscovite	ferrihydrite, illite	plagioclase (oligoclase), dolomite, pyrite, anhydrite, alunite, sphalerite, halloysite, kaolinite, smectite
49s	quartz	ferrihydrite, kaolinite	K-feldspar (microcline), plagioclase (albite), pyrite, sphalerite, halloysite
50	quartz	chalcopyrite, illite, chlorite, muscovite	K-feldspar (microcline), calcite, pyrite, hematite, ferrihydrite, kaolinite, biotite
52s	quartz	plagioclase (labradorite), plagioclase (anorthite), calcite, hornblende, muscovite	K-feldspar (microcline), ferrihydrite, chalcopyrite, biotite, chlorite
54	quartz, muscovite	ferrihydrite, biotite	K-feldspar (microcline), plagioclase (labradorite), calcite, anhydrite, chalcopyrite, kaolinite

Notes: Major elements represent concentrations ≥15%. Minors elements represent concentrations <15% but ≥5%. Trace elements represent concentrations <5% but ≥1%. Detection limit is about 1% so minerals reported at lower concentrations were not included. ppt = precipitate.

APPENDIX L
SCANNING ELECTRON MICROSCOPE PHOTOGRAPHS

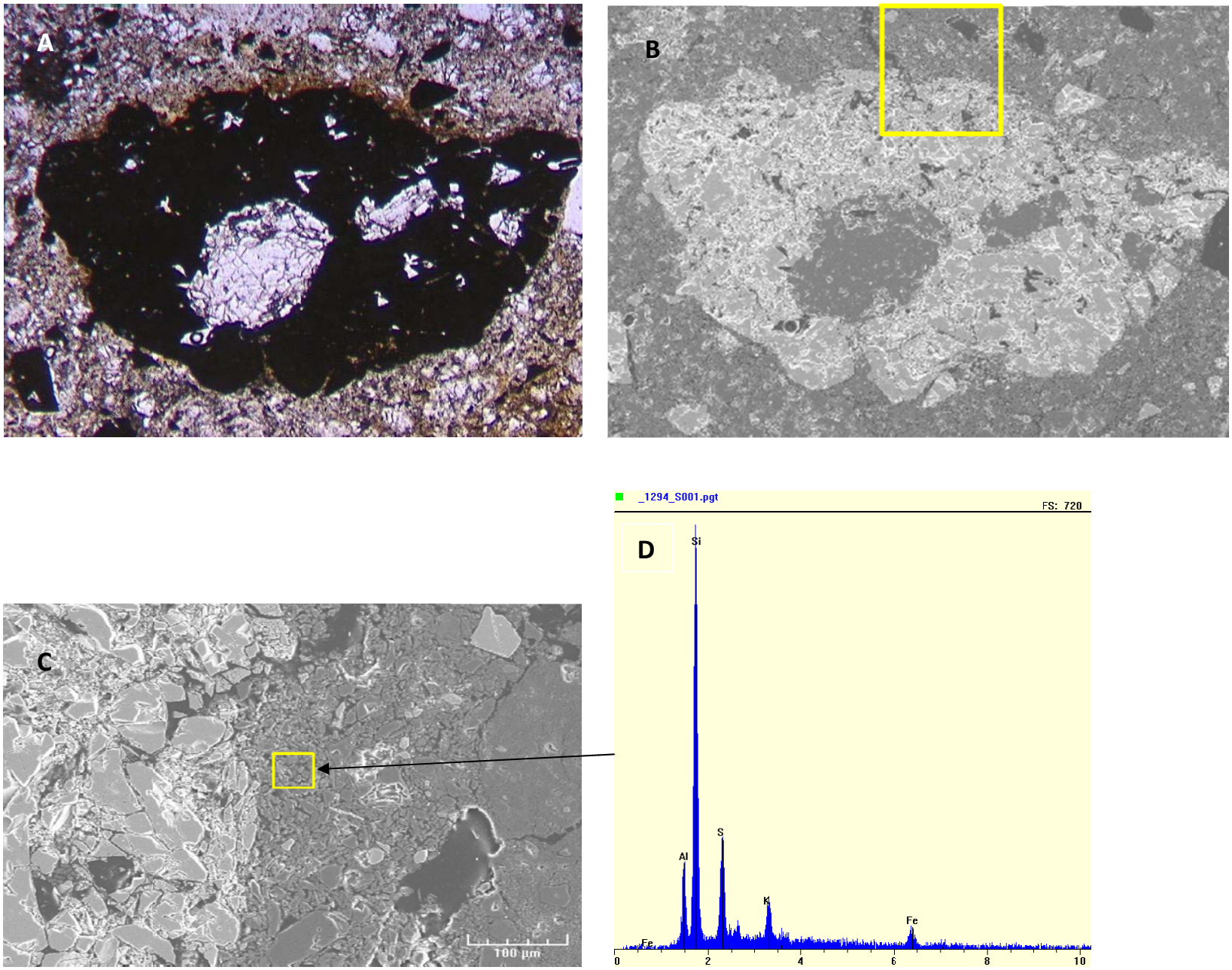

Figure L-1 Quartzite with phyllic alteration. (A) Transmitted light photograph of sulfide grain showing staining from oxidation; (B) SEM image of same grain with highlighted area containing staining expanded in (C). (D) EDX spectra of stained area showing a chemical signature consistent with jarosite.

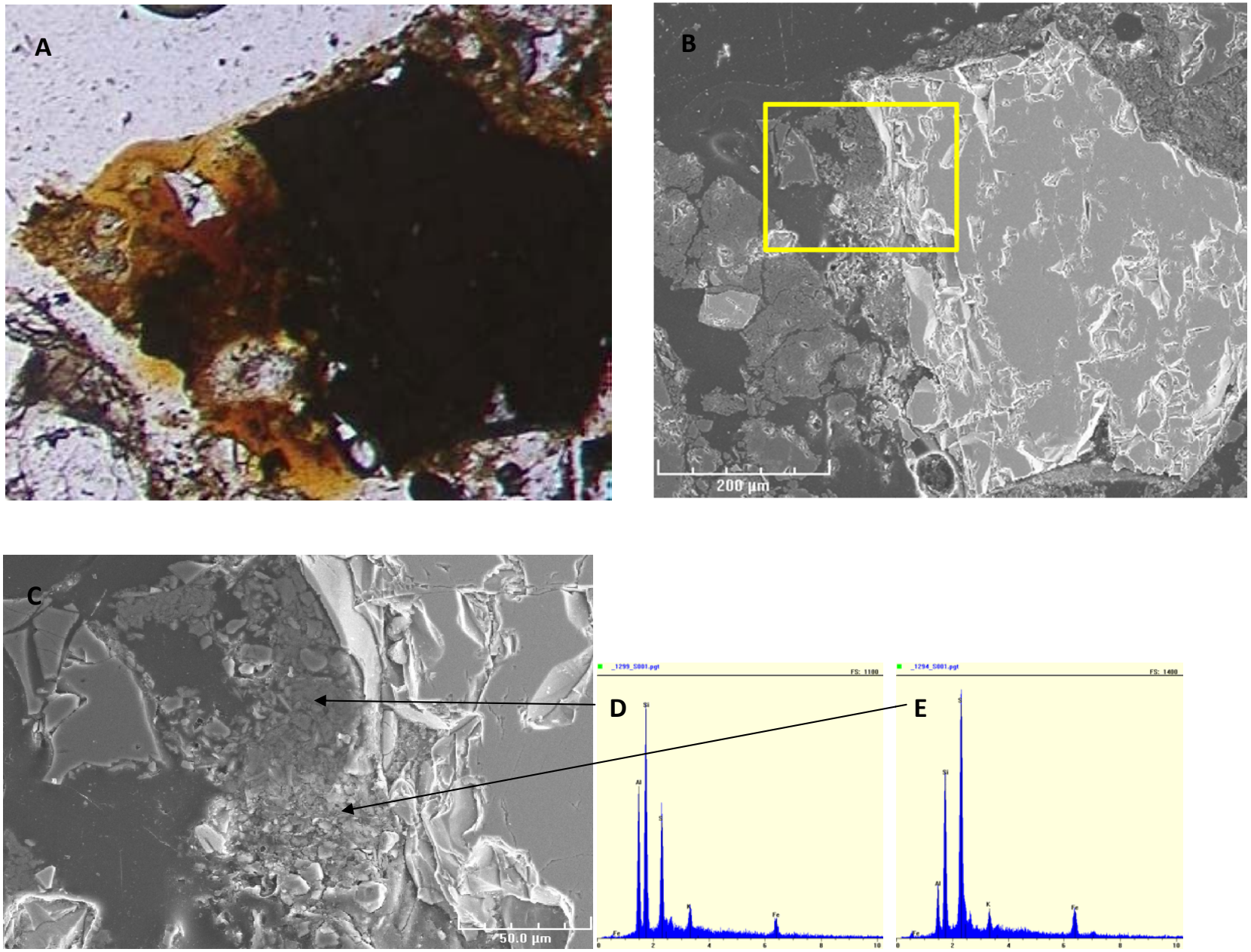

Figure L-2 Quartzite with phyllic alteration. (A) Transmitted light photograph of sulfide grain showing staining from oxidation. (B) SEM image of same grain with highlighted area containing staining expanded in (C). (D) EDX spectra of darker stained area showing a chemical signature consistent with jarosite with a higher alumina and silica content than the lighter area which contains more sulfur (E).

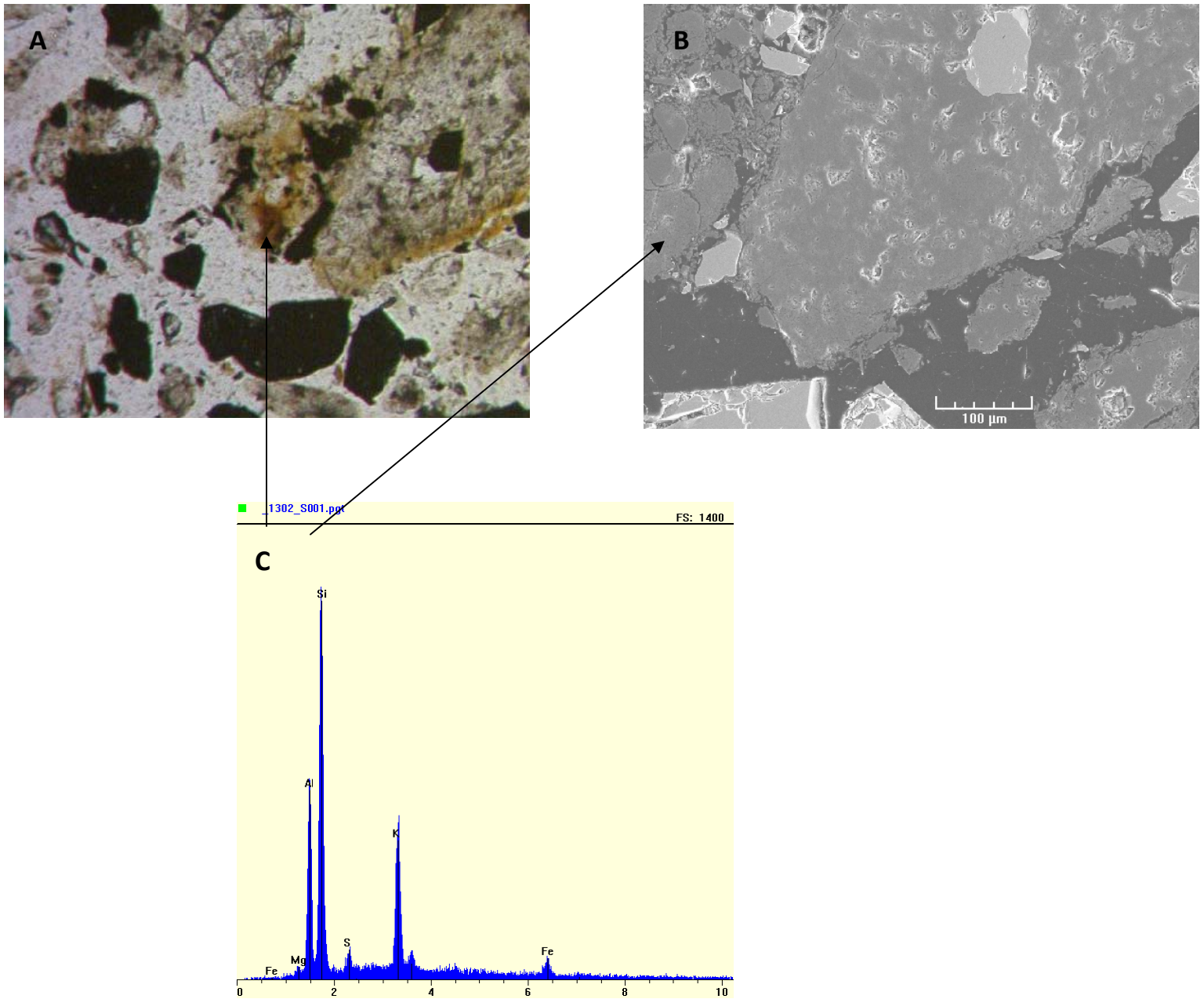

Figure L-3 Cretaceous volcanic sediments with phyllic alteration. (A) Transmitted light photograph of silicate grain showing staining. (B) SEM image of same grain. (C) EDX spectra of stained area showing a chemical signature consistent with jarosite.

APPENDIX M
SUMMARY OF DATA VERIFICATION

APPENDIX M

SUMMARY OF DATA VERIFICATION

INTRODUCTION

This appendix presents a summary of the data verification results for samples collected to support the Resolution Copper Mining, LLC (RCML) Pre-Feasibility Study (PFS). The samples addressed in this verification were collected between August 2008 and May 2010.

Samples were analyzed as whole rock, acid-base accounting (ABA), net acid generation (NAG), synthetic precipitation leaching procedure (SPLP), and/or humidity cell tests (HCTs) and/or saturation column testing (SCT) for one or more of the following:

- Metals
- Anions
- Gross alpha and/or beta
- Acidity
- Alkalinity
- pH
- Percent solids
- Electrical conductivity
- Radium
- Sulfur, variety of forms

The results of the sample analyses are summarized in Appendices A though F and Appendix H. Originally, there were 54 humidity cells, but after 10 weeks, 18 were switched to shoebox containers due to limited flow through the columns. An "S" was added to the field identification to indicate the change in Appendix F. Samples were analyzed by ACZ Laboratories, Inc. of Steamboat Springs, Colorado, Chemac Environmental Services of Centennial, Colorado, (Chemac). Humidity cells and shoeboxes were set up, maintained, and sampled by Chemac Environmental Services. The following quality assurance items were reviewed as part of the data verification and compared with acceptance

criteria documented in the project quality assurance project plan (QAPP) based on the Arizona Department of Health Services (ADHS) Lab Data Qualifiers (ADHS, 2003):

- Sample collection and sample extract holding times
- Internal standard (IS)
- Continuing calibration blank sample results (CCB)
- Laboratory method blank sample results (MB)
- Laboratory fortified blank (LFB) percent recoveries
- Laboratory replicate (LR)
- Matrix spike/matrix spike duplicate (MS/MSD) sample percent recoveries (where applicable)
- MS/MSD relative percent differences (RPDs) (where applicable)
- Serial dilutions
- Inductively coupled plasma (ICP) interference check standard (ICS)
- Post-digestion spike
- Field duplicate sample RPDs
- Laboratory observations

DATA VERIFICATION RESULTS

Sample Collection and Sample and Sample Extract Holding Times. All samples were properly collected with one exception listed in Table M-1 with "PRES" as the QC type. All sample analyses were performed within the method specified holding times with the following exceptions. Samples that were not within method specified holding times are listed in the attached table with "HT" as the QC type.

Internal Standard Recoveries Evaluation. Internal standards are used to assess accuracy and to determine the concentration of target analytes in samples for some metals analyses. All IS recoveries met method acceptance criteria with the exceptions listed in the attached table with "IS" as the QC type.

Initial and Continuing Calibration Blank Sample Evaluation. Initial and continuing calibration blank samples were analyzed with each sample batch for metals analyses to determine whether metals were introduced into samples during preparation and/or analysis by the laboratory. No sample data were qualified due to ICB/CCB results with the exceptions listed in the attached table with "CCB" as the QC type.

Laboratory Method Blank Sample Results. Laboratory method blanks were analyzed for each method according the laboratory SOPs. No target analytes were detected in the method blank samples with the exceptions listed in the attached table with "MB" as the QC type.

Laboratory Fortified Blank Samples Percent Recoveries. Laboratory fortified blank samples were prepared and analyzed with each method and laboratory sample batch according to the laboratory SOPs. All LFB recoveries were within laboratory acceptance criteria with the exceptions listed in the attached table with "LFB" as the QC type.

Laboratory Replicate Sample Evaluation. For metals and water quality analyses the laboratory prepared and analyzed a replicate sample. The RPD was calculated between the parent and laboratory replicate sample. All laboratory replicates RPDs were within acceptance criteria with the exceptions listed in the attached table with "LR" as the QC type.

MS/MSD Sample Percent Recoveries. Matrix spike and matrix spike duplicate samples were prepared and analyzed with each method and laboratory sample batch according to the laboratory SOPs. All MS/MSD recoveries were within laboratory acceptance criteria with the exceptions listed in the attached table with "MS" and/or "MSD" as the QC type.

MS/MSD RPDs. All MS/MSD RPDs were within laboratory acceptance criteria with the exceptions listed in the attached table with "RPD" as the QC type.

Serial Dilution Percent Difference Evaluation. For metals analysis, if a sample contains a metal above the RL and the concentration is high enough that when diluted five-fold the concentration is still above the RL then a serial dilution was analyzed to evaluate precision. All serial dilution RPDs met acceptance criteria with the exceptions listed in the attached table with "SD" as the QC type.

Inductively Coupled Plasma Interference Check Samples. The ICP ICS verifies the laboratory inter-element and background correction factors. All ICS met acceptance criteria with the exceptions listed in the attached table with "ICS" as the QC type.

Post-Digestion Spike. For metals analysis, a post-digestion spike is also performed in addition to the MS/MSD sample analysis. For a post-digestion spike, the sample is spiked after digestion but before

analysis. The same criteria used to evaluate the MS/MSD samples were used to evaluate the post digestion spike results. All PDS recoveries were within acceptance criteria.

Field Duplicate Sample RPDs. Two field duplicate samples were collected during this sampling event. The RPDs for all analytes detected above the reporting limit were within the work plan acceptance criteria with the exceptions listed in the attached table with "FD" as the QC type.

Laboratory Observations. Data were qualified based on laboratory observations which were noted in the laboratory reports. Calibration standards which did not meet acceptance criteria were noted. Calibrations were not reviewed as part of the verification performed on the analyses addressed in this report. If the laboratory noted initial calibration verification (ICV) or continuation calibration verifications (CCV) outside acceptance criteria the outliers were confirmed and the data were qualified. The qualified data are listed in the attached table with "ICV" or "CCV" as the QC type. The laboratory also noted matrix interference in one sample which is listed in the table with "MI" as the QC type.

Some whole rock samples were analyzed for gross beta, which was not requested. Once this was discovered the analysis was stopped. The samples analyzed for gross beta (some RES-001C and all RES-002A) were reported in Appendix D.

Humidity cell test samples were initially analyzed weekly for all parameters. As time progressed, some HCT samples were discontinued while others were changed to monthly sampling for most analyses. Analyses performed by Chemac (acidity (total), alkalinity (total), iron (total), pH, specific conductance, and sulfate) continued to be analyzed weekly on samples that were not discontinued.

SUMMARY

All sample data from this sampling program are usable as qualified and reported.

REFERENCES

Arizona Department of Health Services (ADHS), 2003. *Lab Data Qualifiers*, Appendix E, November 26, 2003.

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-001C 1502-1505	5-Sep-08	SM2310B	Acidity, Total	8	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 1502-1505	5-Sep-08	SW6010B	Zinc	0.05	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1502-1505	5-Sep-08	SW6020	Lead	0.0008	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1530-1533	5-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1530-1533	5-Sep-08	SW6020	Lead	0.0008	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1557-1560	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1557-1560	5-Sep-08	SW6020	Lead	00.0002 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1584-1587	5-Sep-08	SW6010B	Zinc	0.05	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1584-1587 Dup	5-Sep-08	SW6010B	Zinc	0.09	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1584-1587	5-Sep-08	SW6020	Lead	0.0038	mg/l	MB	0.00037 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-001C 1584-1587	5-Sep-08	SW6020	Lead	0.0011	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1611-1614	5-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1611-1614	5-Sep-08	SW6020	Lead	0.001	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1639-1642	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1639-1642	5-Sep-08	SW6020	Lead	0.0007	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1666-1669	5-Sep-08	SW6010B	Zinc	0.06	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1666-1669	5-Sep-08	SW6020	Lead	0.0011	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1693-1696	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-001C 1693-1696	5-Sep-08	SW6020	Lead	0.0009	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1711-1714.96	5-Sep-08	E300	Sulfate (as SO4)	326 D1	mg/l	MS	83%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 1711-1714.96	5-Sep-08	M600 3.	Sulfur Sulfate	0.57	%	LR	28%	R1	None	RPD exceeded the method control limit.
RES-001C 1711-1714.96	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1711-1714.96	5-Sep-08	SW6020	Lead	0.0005	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1711-1714.96	25-Sep-08	E300	Chloride (as Cl)	<30 D1	mg/l	MS	87%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 1711-1714.96	25-Sep-08	E300	Sulfate (as SO4)	157 D3	mg/l	MS	80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 1711-1714.96	25-Sep-08	M200.7	Aluminum	1.2 D3	mg/l	MS/MSD	121%/131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-001C 1745-1748	5-Sep-08	SM2310B	Acidity, Total	8	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 1745-1748	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1745-1748	5-Sep-08	SW6020	Lead	0.0009	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-001C 1771.75-1791.4	3-Oct-08	SM2310B	Acidity, Total	2 F	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 1781-1784	12-Sep-08	SW6010B	Calcium	622	mg/l	MB	53%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-001C 1781-1784	12-Sep-08	SW6010B	Silica	29.2	mg/l	MS/MSD	39%/28%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 1799-1802	12-Sep-08	SM2310B	Acidity, Total	7	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 1799-1802	12-Sep-08	SW9310	alpha, Gross	12	pci/g	MS	42%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 1814-1817	12-Sep-08	SW6010B	Zinc	0.17	mg/l	FD	164%	R1	None	RPD exceeded the method control limit.
RES-001C 1814-1817	12-Sep-08	SW6020	Lead	0.0131	mg/l	FD	173.80%	R1	None	RPD exceeded the method control limit.
RES-001C 1814-1817	26-Sep-08	M200.7	Silver	<0.1 D3	mg/l	MS	83%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 1837-1840	12-Sep-08	SM2310B	Acidity, Total	2	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 1855-1858	12-Sep-08	SM2310B	Acidity, Total	4	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 2041-2044	12-Sep-08	SM2310B	Acidity, Total	13	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 2164.4-2166.3	12-Sep-08	E300	Fluoride	48 D1	mg/l	MS	122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-001C 2164.4-2166.3	12-Sep-08	SM2310B	Acidity, Total	562	mg/l	MB	12.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-001C 2214-2215	12-Sep-08	SM2310B	Acidity, Total	14	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-001C 2214-2215	26-Sep-08	M200.7	Silver	<0.1 D3	mg/l	MS/MSD	83%/84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-001C 2242-2244	12-Sep-08	SM2310B	Acidity, Total	8	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-002A 858-861	5-Sep-08	SW6010B	Iron	0.16	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 858-861	23-Sep-08	E300	Fluoride	<5 D4	mg/l	MS	0%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-002A 858-861	23-Sep-08	SM2310B	Acidity as CaCO3	562	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 888-891	5-Sep-08	SW6010B	Iron	0.03 F	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 888-891	23-Sep-08	SM2310B	Acidity as CaCO3	20	mg/l	MB	12.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 927-930	5-Sep-08	SM2310B	Acidity, Total	2	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 927-930	5-Sep-08	SW6010B	Iron	0.04 F	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 927-930	23-Sep-08	SM2310B	Acidity as CaCO3	12	mg/l	MB	12.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 965-968	5-Sep-08	SM2310B	Acidity, Total	6	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 965-968	23-Sep-08	M200.8	Selenium	0.0096	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 965-968	23-Sep-08	SM2310B	Acidity as CaCO3	141	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 992-995	5-Sep-08	SM2310B	Acidity, Total	2	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 992-995	5-Sep-08	SW6010B	Iron	0.05	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 992-995 Dup	5-Sep-08	SW6010B	Iron	0.04 F	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 992-995	23-Sep-08	M200.8	Selenium	0.084	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 992-995 Dup	23-Sep-08	M200.8	Selenium	0.0814	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 992-995	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 992-995	23-Sep-08	SM2310B	Acidity as CaCO3	267	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 992-995 Dup	23-Sep-08	SM2310B	Acidity as CaCO3	243	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1007-1010	23-Sep-08	M200.8	Selenium	0.0601	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
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APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-002A 1007-1010	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1007-1010	23-Sep-08	SM2310B	Acidity as CaCO3	20	mg/l	MB	12.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1058-1061	5-Sep-08	SM2310B	Acidity, Total	16	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1058-1061	23-Sep-08	M200.8	Selenium	0.0466	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1058-1061	23-Sep-08	SM2310B	Acidity as CaCO3	283	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1109-1112	5-Sep-08	SM2310B	Acidity, Total	6	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1109-1112	23-Sep-08	E300	Chloride (as Cl)	<30 D4	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-002A 1109-1112	23-Sep-08	E300	Fluoride	<5 D4	mg/l	MS	186%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-002A 1109-1112	23-Sep-08	E300	Sulfate (as SO4)	667 D4	mg/l	MS	85%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-002A 1109-1112	23-Sep-08	M200.7	Copper	15.4 D4	mg/l	MS/MSD	84%/84.7%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-002A 1109-1112	23-Sep-08	M200.7	Iron	24.9 D4	mg/l	MS/MSD	51%/53%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-002A 1109-1112	23-Sep-08	M200.8	Selenium	0.0351 D4	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1109-1112	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1109-1112	23-Sep-08	SM2310B	Acidity as CaCO3	374	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1154-1156	5-Sep-08	SM2310B	Acidity, Total	2	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1154-1156	5-Sep-08	SW6010B	Iron	0.5	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1154-1156	23-Sep-08	M200.8	Selenium	0.0332	mg/l	MB	0.0001 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1154-1156	23-Sep-08	SM2310B	Acidity as CaCO3	374	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1201-1203	5-Sep-08	SM2310B	Acidity, Total	119	mg/l	MB	10.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1201-1203	5-Sep-08	SM2310B	Acidity, Total	111	mg/l	MB	10.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

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Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-002A 1201-1203	5-Sep-08	SW6010B	Iron	12.6	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1201-1203 Dup	5-Sep-08	SW6010B	Iron	14.1	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1201-1203	23-Sep-08	M200.7	Iron	131 D4	mg/l	MS/MSD	80%/70%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-002A 1201-1203	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1201-1203	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1201-1203	23-Sep-08	SM2310B	Acidity as CaCO3	748	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1201-1203 Dup	23-Sep-08	SM2310B	Acidity as CaCO3	695	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1246-1249	5-Sep-08	SM2310B	Acidity, Total	16	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1246-1249	5-Sep-08	SW6010B	Iron	0.28	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1246-1249	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1246-1249	23-Sep-08	SM2310B	Acidity as CaCO3	406	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1291-1292	5-Sep-08	SM2310B	Acidity, Total	51	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1291-1292	5-Sep-08	SW6010B	Iron	4.02	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1291-1292	23-Sep-08	SM2310B	Acidity as CaCO3	543	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1325-1328	5-Sep-08	SM2310B	Acidity, Total	41	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1325-1328	5-Sep-08	SW6010B	Iron	0.38	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1325-1328	23-Sep-08	SM2310B	Acidity as CaCO3	458	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1363-1366	5-Sep-08	SM2310B	Acidity, Total	14	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1363-1366	5-Sep-08	SW6010B	Iron	0.24	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-002A 1363-1366	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1363-1366	23-Sep-08	SM2310B	Acidity as CaCO3	466	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1395-1397	5-Sep-08	SM2310B	Acidity, Total	97	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1395-1397	5-Sep-08	SW6010B	Iron	16.1	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1395-1397	23-Sep-08	SM2310B	Acidity as CaCO3	716	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1414.6-1417	5-Sep-08	SM2310B	Acidity, Total	18	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1414.6-1417	5-Sep-08	SW6010B	Iron	3.05	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1414.6-1417	23-Sep-08	M200.8	Thallium	<0.0005	mg/l	CCV	111%	V5	High	Calibration verification recovery after a group of samples was above acceptance limits. This target analyte was not detected in the sample. Acceptable per EPA method 8000B.
RES-002A 1414.6-1417	23-Sep-08	SM2310B	Acidity as CaCO3	575	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1454-1457	5-Sep-08	SM2310B	Acidity, Total	12	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1454-1457	5-Sep-08	SW6010B	Iron	5.26	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1454-1457	23-Sep-08	SM2310B	Acidity as CaCO3	374	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1538-1541	5-Sep-08	SM2310B	Acidity, Total	10	mg/l	MB	10.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1538-1541	5-Sep-08	SW6010B	Iron	0.05	mg/l	MB	0.2 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1538-1541	23-Sep-08	SM2310B	Acidity as CaCO3	434	mg/l	MB	12.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-002A 1583-1586	5-Sep-08	SM2310B	Acidity, Total	8	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1583-1586	5-Sep-08	SW6010B	Barium	0.07	mg/l	SD	13%	N1	None	Serial dilution outside acceptance criterion. Sample concentration not high enough to use.
RES-002A 1583-1586	5-Sep-08	SW6010B	Potassium	14.7	mg/l	SD	23%	N1	None	Serial dilution outside acceptance criterion. Matrix interference suspected.
RES-002A 1583-1586	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB/SD	0.045 mg/l/53%	B5N1	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL. Serial dilution did not meet acceptance criterion but not used for evaluation because sample concentration too low.
RES-002A 1583-1586	5-Sep-08	SW6020	Cadmium	0.0032	mg/l	SD	327%	N1	None	Serial dilution outside acceptance criterion. Sample concentration too low to evaluate.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
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D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
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APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-002A 1583-1586	5-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1583-1586	5-Sep-08	SW6020	Uranium	00.0003 F	mg/l	SD	250%	N1	None	Serial dilution outside acceptance criterion. Matrix interference suspected.
RES-002A 1583-1586	5-Sep-08	SW9310	alpha, Gross	0.49	pci/g	LR	3%	R1	None	RPD exceeded the method control limit.
RES-002A 1583-1586	25-Sep-08	M200.7	Copper	190 D3	mg/l	MSD	293%	M3	High	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-002A 1627-1630	5-Sep-08	SM2310B	Acidity, Total	10	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1627-1630	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1627-1630	5-Sep-08	SW6020	Lead	00.0002 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1732-1735	5-Sep-08	SM2310B	Acidity, Total	4	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1732-1735 Dup	5-Sep-08	SM2310B	Acidity, Total	6	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1732-1735	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1732-1735 Dup	5-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1732-1735	5-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1732-1735 Dup	5-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1781-1784	5-Sep-08	SM2310B	Acidity, Total	8	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1781-1784	5-Sep-08	SW6010B	Zinc	0.06	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1781-1784	5-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00037 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1814-1817	5-Sep-08	SM2310B	Acidity, Total	8	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1814-1817	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1814-1817	5-Sep-08	SW6020	Lead	00.0002 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1876-1879	5-Sep-08	SM2310B	Acidity, Total	37	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-002A 1876-1879	5-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
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D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
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APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-002A 1876-1879	5-Sep-08	SW6020	Lead	00.0002 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1927-1930	5-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1927-1930	5-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1981-1984	5-Sep-08	SW6010B	Zinc	0.05	mg/l	MB	0.045 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-002A 1981-1984	5-Sep-08	SW6020	Lead	0.0013	mg/l	MB	0.00037 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1011.88-1012.45	19-Sep-08	SW9320	Radium-228	4.6	pci/g	LR	2.48%	R1	None	RPD exceeded the method control limit.
RES-005I 1370.93-1374	7-Oct-08	SM2310B	Acidity as CaCO3	495	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1380-1383	7-Oct-08	SM2310B	Acidity as CaCO3	217	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1389-1391.57	7-Oct-08	SM2310B	Acidity as CaCO3	117	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1396.3-1399.3	7-Oct-08	SM2310B	Acidity as CaCO3	8 F	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1405-1406.67	7-Oct-08	SM2310B	Acidity as CaCO3	165	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1410.18-1413.18	7-Oct-08	SM2310B	Acidity as CaCO3	20	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1419.18-1422.18	7-Oct-08	SM2310B	Acidity as CaCO3	12	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1419.18-1422.18	7-Oct-08	SM2310B	Acidity as CaCO3	8 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1428.18-1431.18	7-Oct-08	SM2310B	Acidity as CaCO3	117	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1437.13-1440.13	7-Oct-08	SM2310B	Acidity as CaCO3	165	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1446.13-1449.13	7-Oct-08	E245.1	Mercury	<0.05 D3	mg/l	MS/MSD	71%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1446.13-1449.13	7-Oct-08	M200.7	Chromium, Total	<0.3 D3	mg/l	MS/MSD	117%/119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1446.13-1449.13	7-Oct-08	M200.7	Manganese	<0.1 D3	mg/l	MS/MSD	118%/120%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1446.13-1449.13	7-Oct-08	M200.7	Silver	0.1 D3	mg/l	MS	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1446.13-1449.13	7-Oct-08	M200.7	Vanadium	<0.1 D3	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1446.13-1449.13	7-Oct-08	SM2310B	Acidity as CaCO3	595	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
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APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1455.13-1458.13	7-Oct-08	SM2310B	Acidity as CaCO3	81	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1464.13-1467.13	7-Oct-08	SM2310B	Acidity as CaCO3	551	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1473.13-1476.13	7-Oct-08	SM2310B	Acidity as CaCO3	350	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1481-1482.66	7-Oct-08	SM2310B	Acidity as CaCO3	245	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1481-1482.66 Dup	7-Oct-08	SM2310B	Acidity as CaCO3	503	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1487.1-1490.1	9-Oct-08	E245.1	Mercury	<0.05 D2	mg/l	MS/MSD	76%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1487.1-1490.1	9-Oct-08	SM2310B	Acidity as CaCO3	740	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1487.1-1490.1	19-Sep-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1487.1-1490.1	19-Sep-08	SW6010B	Aluminum	0.55	mg/l	MS/SD	126%/25.5%	M1N1	High	MS recovery was high. The method control sample recovery was acceptable. Serial dilution did not meet acceptance criterion. Sample concentration not high enough to use as serial dilution.
RES-005I 1487.1-1490.1	19-Sep-08	SW6010B	Iron	0.69	mg/l	MS/LR	69%/31%	M2R1	Low	MS recovery was low. The method control sample recovery was acceptable. LR RPD exceeded the method control limit.
RES-005I 1487.1-1490.1	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.056 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1487.1-1490.1	19-Sep-08	SW6020	Lead	0.0004 F	mg/l	MB	0.0008 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1490.1-1493.1	9-Oct-08	SM2310B	Acidity as CaCO3	766	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1490.1-1493.1	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.056 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1490.1-1493.1	19-Sep-08	SW6020	Lead	0.0004 F	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1499-1502	9-Oct-08	SM2310B	Acidity as CaCO3	766	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1499-1502	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.056 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1499-1502	19-Sep-08	SW6020	Lead	0.0025	mg/l	MB	0.0007 mg.l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
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MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1506.56-1509.47	9-Oct-08	SM2310B	Acidity as CaCO3	828	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1506.56-1509.47	19-Sep-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1506.56-1509.47	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.056 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1506.56-1509.47	19-Sep-08	SW6020	Lead	0.0024	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1515.47-1518.47	9-Oct-08	SM2310B	Acidity as CaCO3	822	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1515.47-1518.47	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.056 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1515.47-1518.47	19-Sep-08	SW6020	Lead	0.0009	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1524.47-1527.47	9-Oct-08	SM2310B	Acidity as CaCO3	603	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1524.47-1527.47	19-Sep-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1524.47-1527.47	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1524.47-1527.47	19-Sep-08	SW6020	Lead	0.0004 F	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1532.98-1534.97	9-Oct-08	SM2310B	Acidity as CaCO3	374	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1532.98-1534.97	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1532.98-1534.97	19-Sep-08	SW6020	Lead	0.001	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1544-1546.55	9-Oct-08	SM2310B	Acidity as CaCO3	585	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1544-1546.55	19-Sep-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1544-1546.55	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1544-1546.55	19-Sep-08	SW6020	Lead	0.0057	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1552.55-1555.58	9-Oct-08	SM2310B	Acidity as CaCO3	601	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1552.55-1555.58	19-Sep-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1552.55-1555.58	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1552.55-1555.58	19-Sep-08	SW6020	Lead	0.0009	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1559.46-1562.46	9-Oct-08	SM2310B	Acidity as CaCO3	820	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1559.46-1562.46	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1559.46-1562.46	19-Sep-08	SW6020	Lead	0.001	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1568.46-1571.46	9-Oct-08	E245.1	Mercury	<0.05 D2	mg/l	MS/MSD	80%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1568.46-1571.46	9-Oct-08	SM2310B	Acidity as CaCO3	844	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1568.46-1571.46	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1568.46-1571.46	19-Sep-08	SW6020	Lead	0.0007	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1577.46-1580.46	9-Oct-08	SM2310B	Acidity as CaCO3	599	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1577.46-1580.46	9-Oct-08	SM2310B	Acidity as CaCO3	686	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1577.46-1580.46	19-Sep-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1577.46-1580.46	19-Sep-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1577.46-1580.46	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1577.46-1580.46 Dup	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1577.46-1580.46	19-Sep-08	SW6020	Lead	0.0018	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1577.46-1580.46 Dup	19-Sep-08	SW6020	Lead	0.0022	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1586.46-1589.46	9-Oct-08	SM2310B	Acidity as CaCO3	706	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1586.46-1589.46	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1586.46-1589.46	19-Sep-08	SW6020	Lead	0.0003 F	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1595.46-1598.46	9-Oct-08	SM2310B	Acidity as CaCO3	862	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1595.46-1598.46	19-Sep-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1595.46-1598.46	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1595.46-1598.46	19-Sep-08	SW6020	Lead	0.0015	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1604.46-1607.46	9-Oct-08	SM2310B	Acidity as CaCO3	659	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1604.46-1607.46	19-Sep-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1604.46-1607.46	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1604.46-1607.46	19-Sep-08	SW6020	Lead	0.0023	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1613.46-1616.46	9-Oct-08	E300	Fluoride	<10 D2	mg/l	MS	0%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1613.46-1616.46	9-Oct-08	SM2310B	Acidity as CaCO3	710	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1613.46-1616.46 Dup	9-Oct-08	SM2310B	Acidity as CaCO3	745.8	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1613.46-1616.46	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1613.46-1616.46	19-Sep-08	SW6020	Lead	0.0013	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1616.46-1619	9-Oct-08	SM2310B	Acidity as CaCO3	848	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1616.46-1619	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1616.46-1619	19-Sep-08	SW6020	Lead	0.0016	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1626.54-1627.16	9-Oct-08	SM2310B	Acidity as CaCO3	99	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1626.54-1627.16	19-Sep-08	E300	Sulfate (as SO4)	<100 D2	mg/l	MS	86%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1626.54-1627.16	19-Sep-08	SW6010B	Zinc	0.03 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1626.54-1627.16	19-Sep-08	SW6020	Lead	0.0015	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1627.16-1630	9-Oct-08	SM2310B	Acidity as CaCO3	219	mg/l	MB	10.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1627.16-1630	19-Sep-08	SW6010B	Zinc	0.04 F	mg/l	MB	0.0005 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1627.16-1630	19-Sep-08	SW6020	Lead	0.0007	mg/l	MB	0.0007 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-005I 1630.5-1631.5	10-Oct-08	SM2310B	Acidity, Total	6 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1630.5-1631.5	10-Oct-08	SW6010B	Boron	00.04 F	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1630.5-1631.5	10-Oct-08	SW6010B	Sodium	3.2	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1630.5-1631.5	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1630.5-1631.5	10-Oct-08	SW9320	Radium-228	10	pci/g	LR	130.6%/3.69%	R1	None	RPD exceeded the method control limit.
RES-005I 1632.56-1635.56	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1632.56-1635.56	10-Oct-08	SW6010B	Boron	0.08	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1632.56-1635.56	10-Oct-08	SW6010B	Sodium	3.8	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1632.56-1635.56	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1652-1654.93	10-Oct-08	SW6020	Lead	<0.0005	mg/l	ICS	0.00102mg/l	N1	None	Analyte detected in interference check standard but not detected in sample.
RES-005I 1677.8-1680.8	10-Oct-08	M600 3.	Sulfur Sulfate	0.56	%	FD	73%	R1	None	RPD exceeded the method control limit.
RES-005I 1677.8-1680.8	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1677.8-1680.8	10-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1677.8-1680.8	10-Oct-08	SW6010B	Sodium	3.9	mg/l	MB/LR	3 mg/l/28.7 RPD	B1R1	None	Target analyte detected in method blank at or above the method reporting limit. LR RPD exceeded the method control limit.
RES-005I 1677.8-1680.8	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1677.8-1680.8	10-Oct-08	SW9320	Radium-228	9.7	pci/g	FD	96.2%/3.17%	R1	None	RPD exceeded the method control limit.
RES-005I 1677.8-1680.8	29-Oct-08	E300	Fluoride	<5 D1	mg/l	MS	127%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1677.8-1680.8	29-Oct-08	M200.7	Copper	80 D3	mg/l	MS/MSD	-28%/13%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-005I 1677.8-1680.8	29-Oct-08	M200.7	Iron	7.8 D3	mg/l	MS/MSD	152%/151%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1695.23-1697.23	10-Oct-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1695.23-1697.23	10-Oct-08	SW6010B	Boron	0.08	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
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D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1695.23-1697.23	10-Oct-08	SW6010B	Sodium	4.7	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1695.23-1697.23	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1711.23-1713.23	10-Oct-08	SW6010B	Boron	0.08	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1711.23-1713.23	10-Oct-08	SW6010B	Sodium	3	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1711.23-1713.23	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1727.23-1729.23	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1727.23-1729.23	10-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1727.23-1729.23	10-Oct-08	SW6010B	Sodium	4.7	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1727.23-1729.23	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1727.23-1729.23 Dup	29-Oct-08	M200.7	Copper	70.5 D3	mg/l	MS/MSD	38%/35%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-005I 1727.23-1729.23	29-Oct-08	M200.7	Zinc	0.85 D3	mg/l	MS/MSD	77%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 1730.5-1731.5	10-Oct-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1730.5-1731.5	10-Oct-08	SW6010B	Boron	0.07	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1730.5-1731.5	10-Oct-08	SW6010B	Sodium	3.1	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1730.5-1731.5	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1743.23-1745.23	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1743.23-1745.23	10-Oct-08	SW6010B	Boron	0.08	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1743.23-1745.23	10-Oct-08	SW6010B	Sodium	3.3	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1743.23-1745.23	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1759.23-1761.23	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1759.23-1761.23	10-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1759.23-1761.23	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1759.23-1761.23	10-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1759.23-1761.23	10-Oct-08	SW6010B	Sodium	4.2	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1759.23-1761.23	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1775.23-1778.23	10-Oct-08	SM2310B	Acidity, Total	2 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1775.23-1778.23	10-Oct-08	SW6010B	Boron	0.23	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1775.23-1778.23	10-Oct-08	SW6010B	Sodium	8.1	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1775.23-1778.23	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1794.36-1796.3	10-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1794.36-1796.3	10-Oct-08	SW6010B	Boron	00.04 F	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1794.36-1796.3	10-Oct-08	SW6010B	Sodium	2.6	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1794.36-1796.3	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1794.36-1796.3	10-Oct-08	SW9315	Radium 226 with alpha emitting isotopes	0.42	pci/g	MI	NA	N1	High	High barium tracer recovery due to matrix effect. Noted result would still be undetected if 100% recovery assumed.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1811.3-1814.3	10-Oct-08	SM2310B	Acidity, Total	8 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1811.3-1814.3	10-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1811.3-1814.3	10-Oct-08	SW6010B	Sodium	3.8	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1811.3-1814.3	10-Oct-08	SW6010B	Zinc	0.1	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1830.5-1831.5	10-Oct-08	SM2310B	Acidity, Total	14	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1830.5-1831.5	10-Oct-08	SW6010B	Boron	0.05	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1830.5-1831.5	10-Oct-08	SW6010B	Sodium	3.4	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1830.5-1831.5	10-Oct-08	SW6010B	Zinc	0.08	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1830.5-1831.5	10-Oct-08	SW6020	Lead	<0.0005	mg/l	ICS	0.00102 mg/l	N1	None	Analyte detected in interference check standard but not detected in sample.
RES-005I 1835.3-1838.3	10-Oct-08	SM2310B	Acidity, Total	6 F	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1835.3-1838.3	10-Oct-08	SW6010B	Boron	0.06	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1835.3-1838.3	10-Oct-08	SW6010B	Sodium	3.6	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1835.3-1838.3	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1855.91-1858.91	10-Oct-08	SM2310B	Acidity, Total	14	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1855.91-1858.91	10-Oct-08	SW6010B	Boron	0.06	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1855.91-1858.91	10-Oct-08	SW6010B	Sodium	3.8	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1855.91-1858.91	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1872.9-1875.38	10-Oct-08	SM2310B	Acidity, Total	32	mg/l	MB	10.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1872.9-1875.38	10-Oct-08	SW6010B	Boron	0.05	mg/l	MB	0.105 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1872.9-1875.38	10-Oct-08	SW6010B	Sodium	3.1	mg/l	MB	3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1872.9-1875.38	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.054 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1875.38-1878.2	10-Oct-08	E300	Fluoride	0.3 F	mg/l	MS	113%	M1	None	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1875.38-1878.2	10-Oct-08	SW6010B	Boron	0.04 F	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1875.38-1878.2	10-Oct-08	SW6010B	Sodium	1.4 F	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1875.38-1878.2	10-Oct-08	SW6010B	Zinc	2.87	mg/l	MB	0.061 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1875.38-1878.2	31-Oct-08	E300	Fluoride	<5 D1	mg/l	MS	121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-005I 1875.38-1878.2	31-Oct-08	M200.7	Copper	108 D3	mg/l	MS/MSD	-169%/-155%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-005I 1875.38-1878.2	31-Oct-08	M200.7	Iron	30.7 D3	mg/l	MS/MSD	36%/37%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1875.38-1878.2	31-Oct-08	M200.7	Zinc	19.1 D3	mg/l	MS/MSD	72%/59%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-005I 1875.38-1878.2	31-Oct-08	SM2310B	Acidity as CaCO3	509	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1884-1887	10-Oct-08	SW6010B	Silica	7	mg/l	RPD	28%	R4	None	MS/MSD RPD exceeded the method control limit. Recoveries met acceptance criteria.
RES-005I 1884-1887	10-Oct-08	SW6010B	Sodium	2.8	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1884-1887	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1895-1897.06	10-Oct-08	SW6010B	Boron	0.07	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1895-1897.06	10-Oct-08	SW6010B	Sodium	3.1	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1895-1897.06	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1895-1897.06	31-Oct-08	SM2310B	Acidity as CaCO3	342	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1901.49-1902.36	10-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1901.49-1902.36	10-Oct-08	SW6010B	Sodium	4.4	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1901.49-1902.36	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1901.49-1902.36	31-Oct-08	SM2310B	Acidity as CaCO3	429	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1917.29-1919.1	10-Oct-08	SW6010B	Boron	0.22	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1917.29-1919.1	10-Oct-08	SW6010B	Sodium	10.2	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1917.29-1919.1	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1917.29-1919.1	10-Oct-08	SW9320	Radium-228	5.8	pci/g	LR	208%	R1	None	RPD exceeded the method control limit.
RES-005I 1917.29-1919.1	31-Oct-08	SM2310B	Acidity as CaCO3	348	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1923.1-1925.3	10-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1923.1-1925.3	10-Oct-08	SW6010B	Sodium	4.4	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1923.1-1925.3	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1923.1-1925.3	31-Oct-08	SM2310B	Acidity as CaCO3	576	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 1955.06-1958.06	10-Oct-08	SW6010B	Boron	0.13	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1955.06-1958.06	10-Oct-08	SW6010B	Sodium	6.6	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1955.06-1958.06	10-Oct-08	SW6010B	Zinc	0.12	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1955.06-1958.06	31-Oct-08	SM2310B	Acidity as CaCO3	131	mg/l	MB	28.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1960.5-1961.5	10-Oct-08	SW6010B	Boron	0.14	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1960.5-1961.5	10-Oct-08	SW6010B	Sodium	7.7	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-005I 1960.5-1961.5	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1960.5-1961.5	31-Oct-08	SM2310B	Acidity as CaCO3	134	mg/l	MB	28.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 1979.06-1982.06	10-Oct-08	SW6010B	Boron	0.14	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1979.06-1982.06	10-Oct-08	SW6010B	Sodium	9.1	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1979.06-1982.06	10-Oct-08	SW6010B	Zinc	0.09	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 1979.06-1982.06	31-Oct-08	SM2310B	Acidity as CaCO3	107	mg/l	MB	28.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 2008.11-2011.11	10-Oct-08	SW6010B	Boron	0.12	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2008.11-2011.11	10-Oct-08	SW6010B	Sodium	6.9	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2008.11-2011.11	10-Oct-08	SW6010B	Zinc	0.05	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2008.11-2011.11	31-Oct-08	SM2310B	Acidity as CaCO3	221	mg/l	MB	28.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 2032.11-2035.11	10-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2032.11-2035.11	10-Oct-08	SW6010B	Sodium	6.6	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2032.11-2035.11	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2032.11-2035.11	31-Oct-08	M200.7	Copper	161 D3	mg/l	MS/MSD	-13%/-84%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-005I 2032.11-2035.11	31-Oct-08	M200.7	Silver	0.27 D3	mg/l	MS/MSD	77%/75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-005I 2032.11-2035.11	31-Oct-08	SM2310B	Acidity as CaCO3	452	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005I 2049.84-2052.84	10-Oct-08	SW6010B	Boron	0.04 F	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2049.84-2052.84	10-Oct-08	SW6010B	Sodium	2.4	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2049.84-2052.84	10-Oct-08	SW6010B	Zinc	0.15	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2049.84-2052.84	31-Oct-08	SM2310B	Acidity as CaCO3	281	mg/l	MB	28.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-005I 2061.84-2064.84	10-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2061.84-2064.84	10-Oct-08	SW6010B	Sodium	4	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2061.84-2064.84	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005I 2061.84-2064.84	31-Oct-08	SM2310B	Acidity as CaCO3	308	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-005J 1660.4-1668.47	10-Oct-08	SW6010B	Boron	0.17	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005J 1660.4-1668.47	10-Oct-08	SW6010B	Sodium	6	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005J 1660.4-1668.47	10-Oct-08	SW6010B	Zinc	0.07	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-005J 1660.4-1668.47	31-Oct-08	SM2310B	Acidity as CaCO3	312	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1247.48-1250.48	3-Oct-08	SW6010B	Boron	0.13	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1247.48-1250.48	3-Oct-08	SW6010B	Silica	20.7	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-006D 1247.48-1250.48	3-Oct-08	SW6010B	Sodium	17.1	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1247.48-1250.48	23-Oct-08	SM2310B	Acidity as CaCO3	16	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1405.47-1408.44	3-Oct-08	SW6010B	Boron	0.11	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1405.47-1408.44	3-Oct-08	SW6010B	Silica	13.2	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1405.47-1408.44	3-Oct-08	SW6010B	Sodium	8.1	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1405.47-1408.44	23-Oct-08	SM2310B	Acidity as CaCO3	197	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1450.44-1453.44	3-Oct-08	SW6010B	Boron	0.11	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1450.44-1453.44	3-Oct-08	SW6010B	Silica	6.1	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1450.44-1453.44	3-Oct-08	SW6010B	Sodium	7.5	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1450.44-1453.44	23-Oct-08	SM2310B	Acidity as CaCO3	784	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1495.44-1498.44	3-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1495.44-1498.44	3-Oct-08	SW6010B	Silica	5.4	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1495.44-1498.44	3-Oct-08	SW6010B	Sodium	4.8	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1495.44-1498.44	23-Oct-08	SM2310B	Acidity as CaCO3	503	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1532.81-1535.81	3-Oct-08	SM2310B	Acidity, Total	6 F	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1532.81-1535.81	3-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1532.81-1535.81	3-Oct-08	SW6010B	Silica	7.3	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1532.81-1535.81	3-Oct-08	SW6010B	Sodium	7.1	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1532.81-1535.81	23-Oct-08	SM2310B	Acidity as CaCO3	631	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1577.43-1580.43	3-Oct-08	SW6010B	Boron	0.11	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1577.43-1580.43	3-Oct-08	SW6010B	Boron	0.11	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1577.43-1580.43	3-Oct-08	SW6010B	Silica	9.5	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1577.43-1580.43	3-Oct-08	SW6010B	Sodium	4.8	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1577.43-1580.43	23-Oct-08	E300	Fluoride	<5 D1	mg/l	MS	143%	M1	Low	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-006D 1577.43-1580.43	23-Oct-08	M200.7	Copper	45.3 D3	mg/l	MS/MSD	53%/-116%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-006D 1577.43-1580.43	23-Oct-08	M200.7	Iron	61.1 D3	mg/l	MS/MSD	162%/76%	M3	HL	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-006D 1577.43-1580.43	23-Oct-08	SM2310B	Acidity as CaCO3	354	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-006D 1577.43-1580.43 Dup	23-Oct-08	SM2310B	Acidity as CaCO3	338	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1600.5-1601.5	3-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1600.5-1601.5	3-Oct-08	SW6010B	Silica	9.3	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1600.5-1601.5	3-Oct-08	SW6010B	Sodium	4.3	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1622.43-1625.43	3-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1622.43-1625.43	3-Oct-08	SW6010B	Silica	7	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1622.43-1625.43	3-Oct-08	SW6010B	Sodium	3.3	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1622.43-1625.43	23-Oct-08	SM2310B	Acidity as CaCO3	543	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1667.43-1670.43	3-Oct-08	SM2310B	Acidity, Total	18	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1667.43-1670.43	3-Oct-08	SW6010B	Boron	0.13	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1667.43-1670.43	3-Oct-08	SW6010B	Silica	6.6	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1667.43-1670.43	3-Oct-08	SW6010B	Sodium	3.9	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1667.43-1670.43	23-Oct-08	M200.7	Iron	102 D3	mg/l	MS/MSD	131%/149%	M3	High	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-006D 1667.43-1670.43	23-Oct-08	SM2310B	Acidity as CaCO3	683	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1705.4-1708.4	3-Oct-08	SM2310B	Acidity, Total	58	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1705.4-1708.4	3-Oct-08	SW6010B	Boron	0.16	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1705.4-1708.4	3-Oct-08	SW6010B	Silica	6.6	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1705.4-1708.4	3-Oct-08	SW6010B	Sodium	4.8	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1705.4-1708.4	23-Oct-08	SM2310B	Acidity as CaCO3	1050	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1750.4-1753.4	3-Oct-08	SM2310B	Acidity, Total	62	mg/l	MB	16.1 mg/L	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1750.4-1753.4	3-Oct-08	SW6010B	Aluminum	7.26	mg/l	SD	10.10%	N1	NA	Serial dilution outside acceptance criterion.
RES-006D 1750.4-1753.4	3-Oct-08	SW6010B	Iron	9.28	mg/l	MSD	71%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-006D 1798.4-1801.4	3-Oct-08	SM2310B	Acidity, Total	64	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1843.4-1846.4	3-Oct-08	SM2310B	Acidity, Total	76	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1898.21-1901.09	3-Oct-08	SM2310B	Acidity, Total	26	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1927.23-1930.23	3-Oct-08	SM2310B	Acidity, Total	20	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1927.23-1930.23	3-Oct-08	SM2310B	Acidity, Total	24	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-006D 1952.56-1954.83	3-Oct-08	SM2310B	Acidity, Total	8 F	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 1954.83-197	10-Oct-08	SW6010B	Boron	0.12	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1954.83-197	10-Oct-08	SW6010B	Sodium	4.6	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1954.83-197	10-Oct-08	SW6010B	Zinc	0.08	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-006D 1954.83-197	31-Oct-08	SM2310B	Acidity as CaCO3	432	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1980.6-1983.6	3-Oct-08	SM2310B	Acidity, Total	177	mg/l	MB	16.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 1995.6-1998.6	3-Oct-08	SM2310B	Acidity, Total	203	mg/l	MB	16.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-006D 2022.66-2025.66	3-Oct-08	SM2310B	Acidity, Total	85	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 2040.66-2043.66	3-Oct-08	E300	Fluoride	6.8 D2	mg/l	MSD	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-006D 2040.66-2043.66	3-Oct-08	SM2310B	Acidity, Total	36	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 2091.13-2094.13	3-Oct-08	SM2310B	Acidity, Total	27	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 2115.47-2118.47	3-Oct-08	SM2310B	Acidity, Total	8 F	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 2125.45-2128.42	3-Oct-08	SM2310B	Acidity, Total	2 F	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-006D 2137.08-2138.5	3-Oct-08	SM2310B	Acidity, Total	117	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 199.78-200.3	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 199.78-200.3	28-Sep-08	SM2310B	Acidity as CaCO3	193	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 281.14-281.64	12-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 281.14-281.64	28-Sep-08	SM2310B	Acidity as CaCO3	4 F	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 348.3-348.83	12-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 348.3-348.83	12-Sep-08	SW9320	Radium-228	6.6	pci/g	MS	36.50%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009 348.3-348.83	28-Sep-08	SM2310B	Acidity as CaCO3	410	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 447.23-447.8	12-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 447.23-447.8	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 485.12-485.71	12-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 485.12-485.71	28-Sep-08	E300	Fluoride	<5 D1	mg/l	MS	0%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009 485.12-485.71	28-Sep-08	E300	Sulfate (as SO4)	<30 D1	mg/l	MS	88%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009 485.12-485.71	28-Sep-08	M200.7	Aluminum	<0.8 D3	mg/l	MS/MSD	149%/149%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
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D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
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APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009 485.12-485.71	28-Sep-08	M200.7	Copper	00.11 FD3	mg/l	MSD	79%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009 485.12-485.71	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	MS	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009 485.12-485.71	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 557.06-557.56	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 557.06-557.56	28-Sep-08	SM2310B	Acidity as CaCO3	157	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 647.52-648.1	12-Sep-08	SW6010B	Zinc	00.02 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 647.52-648.1	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 718-718.58	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 718-718.58	28-Sep-08	SM2310B	Acidity as CaCO3	507	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 718-718.58	28-Sep-08	SM2310B	Acidity as CaCO3	422	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 718-718.58 Dup	28-Sep-08	SM2310B	Acidity as CaCO3	507	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 810.42-810.98	12-Sep-08	SW6010B	Zinc	00.03 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 810.42-810.98	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 906.08-906.58	12-Sep-08	SW6010B	Zinc	00.02 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 906.08-906.58	28-Sep-08	E245.1	Mercury	<0.01	mg/l	PRES	NA	Q3	None	Improper sample preservation; alternate sample container used.
RES-009 906.08-906.58	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 906.08-906.58	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 987.9-988.45	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 987.9-988.45	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 987.9-988.45	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 994.67-997.67	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 994.67-997.67	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 994.67-997.67	28-Sep-08	SM2310B	Acidity as CaCO3	161	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 1012.16-1014.16	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 1012.16-1014.16	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1012.16-1014.16	28-Sep-08	SM2310B	Acidity as CaCO3	77	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009 1027.38-1030.3	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 1027.38-1030.3	12-Sep-08	SW6020	Lead	<0.0005	mg/l	LR	92%	R1	None	RPD exceeded the method control limit.
RES-009 1027.38-1030.3	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1027.38-1030.3	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1027.38-1030.3	28-Sep-08	SM2310B	Acidity as CaCO3	<10	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 1045.3-1048.3	12-Sep-08	SW6010B	Zinc	0.05	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 1045.3-1048.3	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1045.3-1048.3	28-Sep-08	SM2310B	Acidity as CaCO3	44	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 1063.3-1066.3	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 1063.3-1066.3	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1063.3-1066.3	28-Sep-08	SM2310B	Acidity as CaCO3	44	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 1081.3-1084.3	12-Sep-08	SW6010B	Zinc	00.04 F	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 1081.3-1084.3	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1081.3-1084.3	28-Sep-08	SM2310B	Acidity as CaCO3	52	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009 1098.34-1100.96	12-Sep-08	SW6010B	Zinc	0.05	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009 1098.34-1100.96	28-Sep-08	M200.7	Silver	0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009 1098.34-1100.96	28-Sep-08	SM2310B	Acidity as CaCO3	97	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009D 1119.32-1122.42	12-Sep-08	SW6010B	Zinc	0.05	mg/l	MB	0.033 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009D 1119.32-1122.42	26-Sep-08	SW6010B	Silica	16.5	mg/l	MS	74.5%/58%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009D 1119.32-1122.42	28-Sep-08	M200.7	Silver	<0.1 D3	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
RES-009D 1119.32-1122.42	28-Sep-08	SM2310B	Acidity as CaCO3	92	mg/l	MB	44.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1307.1-1310.1	26-Sep-08	SM2310B	Acidity, Total	16	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1319.1-1322.1	26-Sep-08	SM2310B	Acidity, Total	6 F	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1335.41-1338.16	26-Sep-08	SM2310B	Acidity, Total	6 F	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1351.03-1354.03	26-Sep-08	SM2310B	Acidity, Total	6 F	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1368.07-1370.69	26-Sep-08	SM2310B	Acidity, Total	81	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1385.61-1388.61	26-Sep-08	SM2310B	Acidity, Total	36	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009E 1402.22-1404.53	26-Sep-08	SM2310B	Acidity, Total	6 F	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1410.5-1411.5	26-Sep-08	SM2310B	Acidity, Total	10	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1418.16-1419.8	26-Sep-08	SM2310B	Acidity, Total	6 F	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1431.42-1433.8	14-Oct-08	M200.7	Copper	66.8 D3	mg/l	MS/MSD	-1.8%/-4.1%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-009E 1431.42-1433.8	14-Oct-08	M200.7	Iron	57 D3	mg/l	MS/MSD	73%/75%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-009E 1431.42-1433.8	26-Sep-08	SM2310B	Acidity, Total	10	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1446.41-1449.41	26-Sep-08	SM2310B	Acidity, Total	54	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1464.41-1467.41	26-Sep-08	SM2310B	Acidity, Total	34	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1478.13-1481.13	26-Sep-08	SM2310B	Acidity, Total	12	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1478.13-1481.13	26-Sep-08	SW6020	Cadmium	0.0008	mg/l	SD	12.50%	N1	None	Serial dilution outside acceptance criterion. Sample concentration not high enough to use.
RES-009E 1478.13-1481.13	26-Sep-08	SW6020	Selenium	0.0008	mg/l	SD	19%	N1	None	Serial dilution outside acceptance criterion. Sample concentration not high enough to use.
RES-009E 1496.13-1499.13	26-Sep-08	SM2310B	Acidity, Total	26	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1510.74-1527.19	3-Oct-08	SM2310B	Acidity, Total	16	mg/l	MB	16.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1514.13-1517.13	26-Sep-08	SM2310B	Acidity, Total	60	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1532.4-1534.49	26-Sep-08	SM2310B	Acidity, Total	36	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1540.5-1541.5	26-Sep-08	SM2310B	Acidity, Total	36	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1547.47-1550.47	26-Sep-08	SM2310B	Acidity, Total	42	mg/l	MB	18.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1565.47-1568.47	26-Sep-08	E300	Sulfate (as SO4)	259 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1565.47-1568.47	26-Sep-08	SM2310B	Acidity, Total	155	mg/l	MB	12.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1565.47-1568.47	26-Sep-08	SW6020	Lead	0.0029	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1597.32-1599.88	26-Sep-08	E300	Sulfate (as SO4)	187 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1597.32-1599.88	26-Sep-08	SM2310B	Acidity, Total	121	mg/l	MB	12.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1597.32-1599.88	26-Sep-08	SW6020	Lead	0.0006	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1597.32-1599.88	26-Sep-08	SW9315	Radium 226 with	0.49	pci/g	MS	41%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009E 1602.44-1605	26-Sep-08	E300	Sulfate (as SO4)	146 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1602.44-1605	26-Sep-08	SM2310B	Acidity, Total	76	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1602.44-1605	26-Sep-08	SW6020	Lead	0.0023	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1617.38-1619.14	26-Sep-08	E300	Sulfate (as SO4)	55.3	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1617.38-1619.14	26-Sep-08	SM2310B	Acidity, Total	12	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1617.38-1619.14	26-Sep-08	SW6010B	Iron	<0.05	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1617.38-1619.14	26-Sep-08	SW6020	Lead	0.0005	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1634.46-1637.47	26-Sep-08	E300	Sulfate (as SO4)	73.8	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1634.46-1637.47	26-Sep-08	SM2310B	Acidity, Total	42	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1634.46-1637.47	26-Sep-08	SW6020	Lead	0.0006	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1650.14-1652.81	26-Sep-08	E300	Sulfate (as SO4)	171 D2	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1650.14-1652.81 Dup	26-Sep-08	E300	Sulfate (as SO4)	191 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1650.14-1652.81	26-Sep-08	SM2310B	Acidity, Total	80	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1650.14-1652.81	26-Sep-08	SM2310B	Acidity, Total	76	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1650.14-1652.81	26-Sep-08	SW6020	Lead	0.0008	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1650.14-1652.81 Dup	26-Sep-08	SW6020	Lead	0.0011	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1669.07-1672.07	26-Sep-08	E300	Sulfate (as SO4)	69.3	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1669.07-1672.07	26-Sep-08	SM2310B	Acidity, Total	14	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1669.07-1672.07	26-Sep-08	SW6010B	Iron	0.99	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1669.07-1672.07	26-Sep-08	SW6020	Lead	0.001	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1685.09-1687.47	15-Oct-08	E300	Fluoride	<5 D1	mg/l	MS	139%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
RES-009E 1685.09-1687.47	15-Oct-08	E300	Sulfate (as SO4)	315 D1	mg/l	MS	113%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009E 1685.09-1687.47	15-Oct-08	M200.7	Copper	70.7 D3	mg/l	MS/MSD	-76%/-70%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-009E 1685.09-1687.47	15-Oct-08	M200.7	Silver	<0.1 D3	mg/l	MS/MSD	78%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009E 1685.09-1687.47	26-Sep-08	E300	Fluoride	1.4	mg/l	MS	87%	M2	None	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009E 1685.09-1687.47	26-Sep-08	E300	Sulfate (as SO4)	20	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1685.09-1687.47	26-Sep-08	M600 3.	Sulfur Sulfate	0.34	%	LR	21%	R1	None	RPD exceeded the method control limit.
RES-009E 1685.09-1687.47	26-Sep-08	SM2310B	Acidity, Total	2 F	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1685.09-1687.47	26-Sep-08	SW6010B	Barium	0.115	mg/l	LR	149%	R1	None	RPD exceeded the method control limit.
RES-009E 1685.09-1687.47	26-Sep-08	SW6010B	Iron	<0.05	mg/l	MB/LR	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1685.09-1687.47	26-Sep-08	SW6020	Lead	0.0023	mg/l	MB/LR	0.00035 mg/l/23%	B5R1	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL. LR RPD exceeded the method control limit.
RES-009E 1697.61-1700.61	26-Sep-08	E300	Sulfate (as SO4)	35.7	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1697.61-1700.61	26-Sep-08	SM2310B	Acidity, Total	8 F	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1697.61-1700.61	26-Sep-08	SW6020	Lead	00.0002 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1718.61-1721.61	26-Sep-08	SW6010B	Iron	<0.05	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1718.61-1721.61	26-Sep-08	SW6020	Lead	0.0012	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1739.63-1742.63	15-Oct-08	M200.7	Copper	34.9 D3	mg/l	MS/MSD	59%/44%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-009E 1739.63-1742.63	15-Oct-08	M200.7	Silver	<0.1 D3	mg/l	MSD	82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009E 1739.63-1742.63	26-Sep-08	SM2310B	Acidity, Total	26	mg/l	MB	24.1 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1739.63-1742.63	26-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1760.86-1763.86	26-Sep-08	E300	Sulfate (as SO4)	20.4	mg/l	MB	3.58 mg/L	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1760.86-1763.86	26-Sep-08	E300	Sulfate (as SO4)	19.3	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1760.86-1763.86	26-Sep-08	SM2310B	Acidity, Total	14	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1760.86-1763.86	26-Sep-08	SM2310B	Acidity, Total	8 F	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1760.86-1763.86	26-Sep-08	SW6010B	Iron	00.02 F	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009E 1760.86-1763.86	26-Sep-08	SW6020	Lead	00.0004 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1760.86-1763.86	26-Sep-08	SW6020	Lead	00.0004 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1789.83-1792.31	26-Sep-08	E300	Sulfate (as SO4)	12.5	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1789.83-1792.31	26-Sep-08	SW6010B	Barium	<0.02	mg/l	CCV	111%	V1	None	Calibration verification recovery above method acceptance limits. Analyte not detected.
RES-009E 1789.83-1792.31	26-Sep-08	SW6010B	Iron	0.07	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1789.83-1792.31	26-Sep-08	SW6020	Lead	0.0008	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1798.16-1799.79	26-Sep-08	E300	Sulfate (as SO4)	30.6	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1798.16-1799.79	26-Sep-08	SM2310B	Acidity, Total	42	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1798.16-1799.79	26-Sep-08	SW6010B	Barium	<0.02	mg/l	CCV	111%	V1	None	Calibration verification recovery above method acceptance limits. Analyte not detected.
RES-009E 1798.16-1799.79	26-Sep-08	SW6010B	Iron	<0.05	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1798.16-1799.79	26-Sep-08	SW6020	Lead	00.0004 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1801.42-1804.15	26-Sep-08	E300	Sulfate (as SO4)	144 D2	mg/l	MB	3.58 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1801.42-1804.15	26-Sep-08	SM2310B	Acidity, Total	73	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1801.42-1804.15	26-Sep-08	SW6020	Lead	0.0005	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1818.62-1821.62	26-Sep-08	E300	Sulfate (as SO4)	114 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1818.62-1821.62	26-Sep-08	SM2310B	Acidity, Total	38	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1818.62-1821.62	26-Sep-08	SW6020	Lead	00.0002 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1829.95-1832.47	15-Oct-08	M200.7	Iron	50.8 D3	mg/l	MS/MSD	64%/69%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
RES-009E 1829.95-1832.48	26-Sep-08	E300	Sulfate (as SO4)	213 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1829.95-1832.48	26-Sep-08	SM2310B	Acidity, Total	44	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1829.95-1832.48	26-Sep-08	SW6020	Lead	00.0003 F	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009E 1846.66-1849.66	26-Sep-08	E300	Sulfate (as SO4)	152 D2	mg/l	MB	3.58 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1846.66-1849.66	26-Sep-08	SW6010B	Iron	00.03 F	mg/l	MB	0.081 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1846.66-1849.66	26-Sep-08	SW6020	Lead	0.0006	mg/l	MB	0.00035 mg/l	B5	None	Target analyte detected in method blank at or above the method reporting limit, but below trigger level or MCL.
RES-009E 1862.15-1865.15	3-Oct-08	SW6010B	Boron	00.03 F	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1862.15-1865.15	3-Oct-08	SW6010B	Silica	4	mg/l	MB	2.18 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1862.15-1865.15	3-Oct-08	SW6010B	Sodium	20.3	mg/l	MB	20.3 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1867.87-1882.37	10-Oct-08	SW6010B	Boron	0.08	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1867.87-1882.37	10-Oct-08	SW6010B	Sodium	5.2	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1867.87-1882.37	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1867.87-1882.37	31-Oct-08	SM2310B	Acidity as CaCO3	27	mg/l	MB	28.2 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1880.15-1882.37	3-Oct-08	SW6010B	Boron	0.05	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1880.15-1882.37	3-Oct-08	SW6010B	Silica	4.2	mg/l	MB	2.18 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1880.15-1882.37	3-Oct-08	SW6010B	Sodium	4.9	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1880.15-1882.37	23-Oct-08	SM2310B	Acidity as CaCO3	16	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1885.5-1886.5	3-Oct-08	SW6010B	Boron	0.15	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1885.5-1886.5	3-Oct-08	SW6010B	Silica	6	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1885.5-1886.5	3-Oct-08	SW6010B	Sodium	11.1	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1899-1901.88	3-Oct-08	SW6010B	Boron	0.1	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1899-1901.88	3-Oct-08	SW6010B	Silica	5.4	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1899-1901.88	3-Oct-08	SW6010B	Sodium	9.4	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1899-1901.88	23-Oct-08	SM2310B	Acidity as CaCO3	270	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1929.76-1932.58	3-Oct-08	SW6010B	Boron	0.09	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1929.76-1932.58	3-Oct-08	SW6010B	Silica	5.8	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1929.76-1932.58	3-Oct-08	SW6010B	Sodium	8.2	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1929.76-1932.58	23-Oct-08	SM2310B	Acidity as CaCO3	265	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1947.67-1950.67	3-Oct-08	SW6010B	Boron	0.12	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1947.67-1950.67	3-Oct-08	SW6010B	Silica	8.7	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1947.67-1950.67	3-Oct-08	SW6010B	Sodium	8.7	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1947.67-1950.67	23-Oct-08	SM2310B	Acidity as CaCO3	12	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1954.6-1956	3-Oct-08	SW6010B	Boron	0.13	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification	Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
RES-009E 1954.6-1956	3-Oct-08	SW6010B	Silica	10.2	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1954.6-1956	3-Oct-08	SW6010B	Sodium	4.8	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1967.76-1969.72	3-Oct-08	SW6010B	Boron	0.14	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1967.76-1969.72	3-Oct-08	SW6010B	Silica	22.2	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1967.76-1969.72	3-Oct-08	SW6010B	Sodium	7.2	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1967.76-1969.72	23-Oct-08	SM2310B	Acidity as CaCO3	245	mg/l	MB	24.1 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
RES-009E 1974.78-1977.89	3-Oct-08	E300	Fluoride	1.1	mg/l	MS	86%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009E 1974.78-1977.89	3-Oct-08	M600 3.	Sulfur Sulfate	0.18	%	LR	143%	R1	None	RPD exceeded the method control limit.
RES-009E 1974.78-1977.89	3-Oct-08	SW6010B	Boron	0.11	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1974.78-1977.89	3-Oct-08	SW6010B	Silica	16.7	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1974.78-1977.89	3-Oct-08	SW6010B	Sodium	7.7	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1974.78-1977.89	3-Oct-08	SW9310	alpha, Gross	5.3	pci/g	MS	37%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
RES-009E 1984.74-1987.74	3-Oct-08	SM2310B	Acidity, Total	4 F	mg/l	MB	12.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 1984.74-1987.74	3-Oct-08	SW6010B	Boron	0.11	mg/l	MB	0.136 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1984.74-1987.74	3-Oct-08	SW6010B	Silica	12.6	mg/l	MB	2.15 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1984.74-1987.74	3-Oct-08	SW6010B	Sodium	6.6	mg/l	MB	5.37 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 1984.74-1987.74	23-Oct-08	SM2310B	Acidity as CaCO3	237	mg/l	MB	24.1 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
RES-009E 2056.38-2075	10-Oct-08	SW6010B	Boron	0.15	mg/l	MB	0.161 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 2056.38-2075	10-Oct-08	SW6010B	Sodium	4.2	mg/l	MB	3.94 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 2056.38-2075	10-Oct-08	SW6010B	Zinc	0.06	mg/l	MB	0.061 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
RES-009E 2056.38-2075	31-Oct-08	SM2310B	Acidity as CaCO3	305	mg/l	MB	28.2 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 1	4-Nov-08	M200.7	Silica	3.4	mg/l	MS/MSD	135%/133%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1	4-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	68%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1	7-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	82%/70%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1	9-Sep-08	M200.7	Silver	<0.03	mg/l	MSD	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1	14-Oct-08	E325.2	Chloride (as Cl)	2 F	mg/l	MS	137%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1	14-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD/ RPD	35%/53%/ 40 RPD	M2R1	Low	MS recovery was low. The method control sample recovery was acceptable. MS/MSD RPD exceeded the method control limit.
TEST 1	21-Oct-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1	21-Oct-08	M200.7	Silica	4.4	mg/l	MS/MSD	135%/138%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1	21-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	70%/71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1	23-Sep-08	M200.7	Silica	5.5	mg/l	MS/MSD	144%/145%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1	23-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	77%/71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 1		26-Aug-08	M200.8	Arsenic	0.0012	mg/l	LFB	130%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 1		30-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	74%/71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1		30-Sep-08	M200.7	Zinc	<0.05	mg/l	MS	124%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		3-Feb-09	E200.7	Molybdenum	<0.05	mg/l	MS/MSD	122%/122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		9-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		9-Dec-08	E340.2	Fluoride	00.3 F	mg/l	MS	0.60%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1S		10-Feb-09	E200.7	Silver	<0.03	mg/l	MS/MSD	78%/82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1S		10-Feb-09	E200.8	Selenium	0.0007	mg/l	MS/MSD	134%/138%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 1S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 1S		10-Feb-09	E340.2	Fluoride	00.2 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 1S		11-Nov-08	E340.2	Fluoride	1.9	mg/l	MS	111%	M1	Low	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		11-Nov-08	M200.7	Silica	6.5	mg/l	MS/MSD	117%/117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		11-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	50%/60%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1S		13-Jan-09	M200.7	Silver	<0.03	mg/l	MS/MSD	64%/57%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1S		18-Nov-08	E340.2	Fluoride	0.6	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 1S		18-Nov-08	M200.7	Molybdenum	<0.05	mg/l	MSD	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		18-Nov-08	M200.7	Silica	2.7	mg/l	MSD	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		18-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	76%/77%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1S		20-Jan-09	E200.7	Magnesium	0.3 F	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	MS/MSD	123%/119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		23-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		25-Nov-08	E340.2	Fluoride	0.5	mg/l	MS	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 1S		25-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	80%/82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 1S		27-Jan-09	E200.8	Selenium	00.0004 F	mg/l	MS/MSD	132%/137%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		2-Jun-09	E200.7	Calcium	191	mg/l	MS/MSD	75%/80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		2-Jun-09	E200.7	Silver	<0.03	mg/l	MS/MSD	65%/65%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		2-Sep-08	M200.7	Calcium	419	mg/l	MS/MSD	55%/56%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 2		2-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	83%/80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		5-May-09	E200.7	Calcium	202	mg/l	MSD	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		5-May-09	E200.7	Silver	<0.03	mg/l	MS/MSD	61%/59%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		7-Apr-09	E200.7	Calcium	207	mg/l	MS/MSD	84%/75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		7-Apr-09	E200.7	Silica	4.5	mg/l	MS/MSD	127%/1245%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 2		7-Apr-09	E200.7	Silver	<0.03	mg/l	MS/MSD	77%/93%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		9-Dec-08	M200.7	Silver	<0.05 D1	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		9-Sep-08	M200.7	Calcium	425	mg/l	MS/MSD	60%/67.5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 2		10-Feb-09	M200.7	Silica	6.1	mg/l	MS/MSD	140%/139%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		10-Mar-09	E200.7	Calcium	224	mg/l	MS/MSD	82%/83%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 2		10-Mar-09	E200.7	Silica	4.5	mg/l	MSD	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		10-Mar-09	E200.7	Silver	<0.03	mg/l	MS/MSD	82%/82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 2		10-Mar-09	E300	Chloride (as Cl)	<3	mg/l	MS	111%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		10-Mar-09	E300	Fluoride	00.4 F	mg/l	MS	115%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		18-Nov-08	E340.2	Fluoride	00.1 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 2		25-Aug-09	E200.7	Calcium	265	mg/l	MS/MSD	54%/62%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 2		25-Aug-09	E200.7	Nickel	0.01 F	mg/l	MS/MSD	116%/116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		25-Aug-09	E200.7	Silica	8	mg/l	MS/MSD	146%/145%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		25-Aug-09	E200.7	Silver	<0.03	mg/l	MS/MSD	73%/75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		26-Aug-08	M200.8	Arsenic	0.0007	mg/l	MS	82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		28-Jul-09	E200.7	Magnesium	00.8 F	mg/l	MS/MSD	116%/116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		28-Jul-09	E200.7	Silica	7.7	mg/l	MS/MSD	142%/144%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		28-Jul-09	E200.7	Silver	<0.03	mg/l	MS/MSD	83%/82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		28-Jul-09	E200.7	Vanadium	<0.03	mg/l	MS/MSD	117%/116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		28-Jul-09	E200.7	Zinc	<0.05	mg/l	MS/MSD	120%/122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		28-Oct-08	M200.7	Silica	6.3	mg/l	MS/MSD	122%/116.5%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	73%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 2		30-Jun-09	E200.7	Silica	5.1	mg/l	MS/MSD	122%/123%/	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 2		30-Jun-09	E200.7	Silver	<0.03	mg/l	MS/MSD	79%/79%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 3		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 3		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 3		10-Feb-09	E340.2	Fluoride	00.4 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 3		14-Oct-08	E340.2	Fluoride	0.4 F	mg/l	MS	63%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 3		18-Nov-08	E340.2	Fluoride	0.6	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 3		18-Nov-08	M200.8	Selenium	0.0048	mg/l	MS/MSD	132%/132%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 3		21-Oct-08	M200.8	Selenium	0.0044	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 4		21-Oct-08	M200.8	Selenium	0.0114	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 5		18-Nov-08	E340.2	Fluoride	00.4 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 5		21-Oct-08	M200.8	Selenium	0.0086	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 6		7-Apr-09	E200.7	Molybdenum	00.01 F	mg/l	MS/MSD	119%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 6		10-Feb-09	E325.2	Chloride (as Cl)	3 F	mg/l	MS	120%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 6		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 6		18-Nov-08	E340.2	Fluoride	00.2 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 6		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 6		21-Oct-08	M200.8	Selenium	0.0065	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 6		26-Aug-08	M200.8	Selenium	0.213	mg/l	MB	0.0011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 6		30-Jun-09	E200.8	Selenium	0.0084	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST 7		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 7		10-Feb-09	E325.2	Chloride (as Cl)	9	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 7		10-Feb-09	E340.2	Fluoride	00.3 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 7		18-Nov-08	E340.2	Fluoride	00.4 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 7		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 7		26-Aug-08	M200.8	Selenium	0.0316	mg/l	MB	0.0011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 8		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 8		10-Feb-09	E325.2	Chloride (as Cl)	16	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 8		10-Feb-09	E340.2	Fluoride	00.4 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 8		18-Nov-08	E340.2	Fluoride	0.7	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 8		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 8		26-Aug-08	M200.8	Selenium	0.0655	mg/l	MB	0.0011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 9		9-Sep-08	E340.2	Fluoride	0.6	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 9		21-Oct-08	M200.8	Selenium	0.0335	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 9		26-Aug-08	M200.8	Selenium	0.0452	mg/l	MB	0.0011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 9S		9-Dec-08	M200.8	Selenium	0.0097	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 9S		18-Nov-08	E340.2	Fluoride	00.2 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 9S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 10		16-Sep-08	M200.7	Copper	9.13	mg/l	MS/MSD	-1.2%/-7.8%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 10		21-Oct-08	M200.8	Selenium	0.0122	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 10		26-Aug-08	M200.8	Selenium	1.6 D2	mg/l	MB	0.0011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 10S		18-Nov-08	E340.2	Fluoride	00.3 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 10S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 11		4-Nov-08	M200.7	Copper	127 D2	mg/l	MS/MSD	-1951%/2016%	M3	LH	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		4-Nov-08	M200.7	Iron	4.56	mg/l	MS/MSD	75%/77%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		4-Nov-08	M200.7	Silica	23.7	mg/l	MS/MSD	127%/130%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		4-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	68%/65%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		7-Oct-08	M200.7	Copper	247 D1	mg/l	MS/MSD	-160%-21%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		9-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		9-Dec-08	M200.7	Aluminum	2.07	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		9-Dec-08	M200.7	Copper	66.3	mg/l	MS/MSD	-1096%/-1241%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		9-Dec-08	M200.7	Silica	6.2	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		9-Dec-08	M200.7	Silver	<0.05 D1	mg/l	MS/MSD	82%/81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

CCB	continuing calibration blank	MB	method blank
CCV	continuing calibration verification	MCL	maximum contaminant level.
FD	field duplicate	MI	matrix interference
HT	holding time	MS/MSD	matrix spike/matrix spike duplicate.
ICS	interference check sample	PRES	preservative
ICV	initial calibration verification	RPD	relative percent difference.
IS	internal standard	SC	Saturated Cell Test
LFB	laboratory fortified blank	SD	serial dilution
LR	laboratory replicate		

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 11		9-Dec-08	M200.8	Selenium	0.0095	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 11		9-Sep-08	M200.7	Copper	196	mg/l	MS/MSD	-2089%/-2864%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		9-Sep-08	M200.7	Silver	<0.03	mg/l	MSD	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 11		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 11		10-Feb-09	E340.2	Fluoride	<10 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 11		11-Nov-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	113%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		11-Nov-08	M200.7	Copper	31.1	mg/l	MS/MSD	-452%/-284%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		11-Nov-08	M200.7	Iron	19.2	mg/l	MS/MSD	-58%/-10%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		11-Nov-08	M200.7	Molybdenum	<0.05	mg/l	MSD	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		11-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	61%/72%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		18-Nov-08	E340.2	Fluoride	<10 D2	mg/l	ICV	105.4%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 11		18-Nov-08	M200.7	Copper	39.9	mg/l	MS/MSD	-638%/529%	M3	HL	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		18-Nov-08	M200.7	Silica	12.6	mg/l	MS/MSD	139%/141%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		18-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	75%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 11		18-Nov-08	M200.8	Selenium	0.0076	mg/l	MS/MSD	134%/135%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		21-Oct-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		21-Oct-08	M200.7	Copper	76.9	mg/l	MS/MSD	-675%/-1123%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		21-Oct-08	M200.7	Silica	14.6	mg/l	MS/MSD	128.5%/126%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		21-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	63%/57%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		21-Oct-08	M200.8	Selenium	0.008	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 11		23-Sep-08	M200.7	Copper	243 D1	mg/l	MS/MSD	-4444%/-4217%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		23-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	62%/64%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		25-Nov-08	M200.7	Chromium, Total	<0.05	mg/l	MS	120%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		25-Nov-08	M200.7	Cobalt	00.02 F	mg/l	MS	120%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		25-Nov-08	M200.7	Copper	39.8	mg/l	MS/MSD	-68%/-297%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		25-Nov-08	M200.7	Manganese	0.147	mg/l	MS/MSD	125%/119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		25-Nov-08	M200.7	Nickel	00.02 F	mg/l	MS	120%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		25-Nov-08	M200.7	Silica	5.2	mg/l	MS	120%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		25-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	72%/77%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 11		25-Nov-08	M200.7	Vanadium	<0.03	mg/l	MS	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		25-Nov-08	M200.7	Zinc	<0.05	mg/l	MS/MSD	126%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		30-Sep-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	114%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 11		30-Sep-08	M200.7	Copper	169	mg/l	MS/MSD	0%/0%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 11		30-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	59%/64%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		2-Sep-08	M200.7	Copper	1.8	mg/l	MS	84%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 12		2-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	78%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		12-Jan-10	E200.7	Silver	<0.03	mg/l	MSD	83%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		14-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	47%/72%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		16-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	57%/57%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		17-Nov-09	E200.7	Boron	<0.3 D1	mg/l	MS/MSD	-172%/-503%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 12		17-Nov-09	E300	Chloride (as Cl)	<3	mg/l	MS	111%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		18-Nov-08	E340.2	Fluoride	00.1 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 12		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

CCB	continuing calibration blank	MB	method blank
CCV	continuing calibration verification	MCL	maximum contaminant level.
FD	field duplicate	MI	matrix interference
HT	holding time	MS/MSD	matrix spike/matrix spike duplicate.
ICS	interference check sample	PRES	preservative
ICV	initial calibration verification	RPD	relative percent difference.
IS	internal standard	SC	Saturated Cell Test
LFB	laboratory fortified blank	SD	serial dilution
LR	laboratory replicate		

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 12		20-Oct-09	E200.7	Sodium	00.8 F	mg/l	MS/MSD	55%/63%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 12		20-Oct-09	E300	Fluoride	<0.5	mg/l	MS	87%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		25-Nov-08	M200.8	Selenium	00.0003 F	mg/l	MS/MSD	134%/133%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		26-Aug-08	M200.7	Chromium, Total	<0.3 D1	mg/l	MS	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		26-Aug-08	M200.7	Copper	170 D1	mg/l	MS/MSD	73%/-224.5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 12		26-Aug-08	M200.7	Iron	1.5 D1	mg/l	MS	121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		26-Aug-08	M200.7	Manganese	2 D1	mg/l	MS	141%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		26-Aug-08	M200.7	Silica	8 FD1	mg/l	MS	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		26-Aug-08	M200.7	Vanadium	<0.1 D1	mg/l	MS	119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		26-Aug-08	M200.8	Selenium	0.0082	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 12		28-Oct-08	M200.7	Silica	1.6 F	mg/l	MS/MSD	116%/116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 12		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	68%/67%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 12		30-Dec-08	M200.7	Copper	1.69	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 12		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 12		30-Jun-09	E200.8	Cadmium	0.0008	mg/l	CCV	112%	V2	High	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
TEST 13		2-Sep-08	E325.2	Chloride (as Cl)	3 F	mg/l	MS	111%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 13		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 13		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 13		10-Feb-09	E340.2	Fluoride	<0.5	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 13		11-Nov-08	M200.8	Selenium	00.0002 F	mg/l	MS/MSD	142%/142%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 13		14-Oct-08	E340.2	Fluoride	0.3 F	mg/l	MS	65%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 13		18-Nov-08	E340.2	Fluoride	00.2 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 13		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 13		26-Aug-08	M200.8	Selenium	0.007	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 13		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	82%/72%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 13		30-Dec-08	M200.7	Copper	0.87	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

CCB	continuing calibration blank	MB	method blank
CCV	continuing calibration verification	MCL	maximum contaminant level.
FD	field duplicate	MI	matrix interference
HT	holding time	MS/MSD	matrix spike/matrix spike duplicate.
ICS	interference check sample	PRES	preservative
ICV	initial calibration verification	RPD	relative percent difference.
IS	internal standard	SC	Saturated Cell Test
LFB	laboratory fortified blank	SD	serial dilution
LR	laboratory replicate		

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 13		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 14		7-Apr-09	E200.8	Selenium	0.006	mg/l	CCB	0.004 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 14		9-Dec-08	M200.8	Selenium	0.0042	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 14		18-Nov-08	E340.2	Fluoride	1.7	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 14		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 14		26-Aug-08	M200.8	Selenium	0.0645	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 14		30-Dec-08	M200.7	Copper	8.4	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 14		30-Jun-09	E200.8	Cadmium	0.0025	mg/l	CCV	112%	V3	High	Calibration verification recovery was above method acceptance limits. The target analyte was detected in the sample, but the sample was not reanalyzed.
TEST 14		30-Jun-09	E200.8	Selenium	0.0111	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST 15		18-Nov-08	E340.2	Fluoride	0.5	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 15		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 16		9-Sep-08	M200.7	Barium	0.155	mg/l	MB	0.0052 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 16		21-Oct-08	M200.8	Selenium	0.0484	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 16		26-Aug-08	M200.8	Selenium	0.244	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 16S		9-Dec-08	M200.8	Selenium	0.0102	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 16S		18-Nov-08	E340.2	Fluoride	<0.5	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 16S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 17		16-Sep-08	M200.7	Manganese	<0.03	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 17		21-Oct-08	M200.8	Selenium	0.0295	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 17		26-Aug-08	E245.1	Mercury	<0.001	mg/l	MSD	75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 17		26-Aug-08	M200.8	Selenium	0.196	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 17S		9-Dec-08	M200.8	Selenium	0.0195	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 17S		18-Nov-08	E340.2	Fluoride	<0.5	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 17S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 18		9-Sep-08	M200.7	Calcium	<1	mg/l	CCV	117%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 18		16-Sep-08	M200.7	Manganese	<0.03	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 18		21-Oct-08	M200.8	Selenium	0.0103	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 18S		9-Dec-08	M200.8	Selenium	0.0046	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 18S		18-Nov-08	E340.2	Fluoride	0.5	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 18S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 19		2-Sep-08	E340.2	Fluoride	3.4	mg/l	MS	66%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 19		9-Sep-08	M200.7	Cobalt	<0.05	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 19		16-Sep-08	M200.7	Manganese	<0.03	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 19		21-Oct-08	M200.8	Selenium	0.025	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 19		26-Aug-08	M200.8	Selenium	0.166	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 19S		9-Dec-08	M200.8	Selenium	0.0051	mg/l	CCB	0.00013 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 19S		18-Nov-08	E340.2	Fluoride	00.2 F	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 19S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 20		9-Sep-08	M200.7	Molybdenum	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 20		21-Oct-08	M200.8	Selenium	0.0039	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 20		26-Aug-08	M200.8	Selenium	0.0734	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 20S		3-Feb-09	E200.7	Copper	20.3	mg/l	MS/MSD	-155%/-183%	M3	High	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 20S		3-Feb-09	E200.7	Molybdenum	<0.05	mg/l	MS/MSD	127%/124%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		6-Jan-09	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		6-Jan-09	M200.7	Copper	13.5	mg/l	MS/MSD	-266%/-279%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 20S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 20S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 20S		10-Feb-09	E340.2	Fluoride	<3 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 20S		13-Jan-09	M200.7	Aluminum	00.18 F	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		13-Jan-09	M200.7	Calcium	1.5	mg/l	MS/MSD	117%/121.5%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 20S		13-Jan-09	M200.7	Copper	14.1	mg/l	MS/MSD	-243%/-267%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 20S		13-Jan-09	M200.7	Molybdenum	<0.05	mg/l	MS/MSD	122%/123%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		13-Jan-09	M200.7	Silver	<0.03	mg/l	MS/MSD	46%/48%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 20S		13-Jan-09	M200.7	Zinc	0.17	mg/l	MS/MSD	120%/144%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		16-Dec-08	M200.7	Copper	7.35	mg/l	MS/MSD	-103%/-101%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 20S		18-Nov-08	E340.2	Fluoride	00.1 F	mg/l	ICV	105.4%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 20S		18-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 20S		20-Jan-09	E200.7	Copper	16.2	mg/l	MS/MSD	-102%/-123%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 20S		23-Dec-08	M200.7	Copper	8.11	mg/l	MS/MSD	-9%/-10%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 20S		27-Jan-09	E200.7	Molybdenum	<0.05	mg/l	MS/MSD	120%/123%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		27-Jan-09	E200.7	Zinc	0.16	mg/l	MSD	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		27-Jan-09	E200.8	Selenium	0.0046	mg/l	MS/MSD	141%/139%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 20S		30-Dec-08	M200.7	Copper	12.1	mg/l	CCB/ MS/MSD	0.033 mg/l/ -261%/-244%	B7M3	Low	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank. The accuracy of the spike recovery values is reduced since the analyte concentration in the sample is disproportionate to spike level. The method controls ample recovery was acceptable.
TEST 20S		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 20S		30-Dec-08	M200.7	Silica	4.1	mg/l	MS	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 21		2-Dec-08	M200.7	Copper	25.1	mg/l	MS/MSD	-341%/-272%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		4-Nov-08	M200.7	Aluminum	6.12	mg/l	MS/MSD	64%/64%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 21		4-Nov-08	M200.7	Copper	114 D2	mg/l	MS/MSD	-2412%/-2351%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		4-Nov-08	M200.7	Silica	28.5	mg/l	MS/MSD	133%/139%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 21		4-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	76%/69%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		7-Oct-08	M200.7	Aluminum	6.61	mg/l	MS	75%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		7-Oct-08	M200.7	Copper	59.8	mg/l	MS/MSD	-765%/-766%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		7-Oct-08	M200.7	Silica	15.4	mg/l	MS/MSD	116%/117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 21		7-Oct-08	M200.7	Silver	00.01 F	mg/l	MS/MSD	70%/72%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		9-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 21		9-Dec-08	M200.7	Copper	12.1	mg/l	MS/MSD	-32%/-57%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		9-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	76%/75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		9-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	38%/46%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 21		10-Mar-09	E200.8	Selenium	0.601 D2	mg/l	CCB	0.00038 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 21		11-Nov-08	M200.7	Copper	71.4	mg/l	MS/MSD	-1319%/-1227%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		14-Oct-08	M200.7	Aluminum	4.01	mg/l	MS	75%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		14-Oct-08	M200.7	Copper	235 D1	mg/l	MS/MSD	-2555%/-1973%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		16-Sep-08	M200.7	Copper	9.41	mg/l	MS	25%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		16-Sep-08	M200.7	Silver	<0.03	mg/l	MS	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 21		18-Nov-08	M200.7	Aluminum	3.91	mg/l	MS	82%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		18-Nov-08	M200.7	Copper	90.8	mg/l	MS/MSD	-1444%/-1267%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		18-Nov-08	M200.7	Silica	27.3	mg/l	MS/MSD	138%/142%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 21		18-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	79%/81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		21-Oct-08	M200.7	Copper	26.7	mg/l	MS/MSD	-286%/-358%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		21-Oct-08	M200.7	Silver	<0.03	mg/l	MB	60%/59%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		21-Oct-08	M200.8	Selenium	0.0666	mg/l	MB	0.00047 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 21		23-Sep-08	M200.7	Copper	11.8	mg/l	MS/MSD	70%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		23-Sep-08	M200.7	Iron	0.03	mg/l	MS/MSD	18%/43.5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		23-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	30%/22%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 21		25-Nov-08	M200.7	Copper	13.8	mg/l	MS/MSD	-94%/-90%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		25-Nov-08	M200.7	Silica	8	mg/l	MS/MSD	119.5%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 21		25-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	77%/76%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		26-Aug-08	E245.1	Mercury	<0.001	mg/l	MS	83.5%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		26-Aug-08	M200.8	Selenium	0.139	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 21		27-Jan-09	E200.7	Copper	61.9	mg/l	MS/MSD	-423%/-262%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		27-Jan-09	E200.7	Silica	16.2	mg/l	MS/MSD	138%/145%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 21		28-Oct-08	M200.7	Aluminum	4.37	mg/l	MS	80%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		28-Oct-08	M200.7	Copper	75.9	mg/l	MS/MSD	-837%/-642%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	48%/49%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 21		30-Dec-08	M200.7	Copper	52.5	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 21		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 21		30-Jun-09	E200.8	Cadmium	00.0002 F	mg/l	CCV	112%	V3	High	Calibration verification recovery was above method acceptance limits. The target analyte was detected in the sample, but the sample was not reanalyzed.
TEST 21		30-Sep-08	M200.7	Aluminum	7.61	mg/l	MS/MSD	68%/72%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		30-Sep-08	M200.7	Copper	47.3	mg/l	MS/MSD	-524%/-479%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 21		30-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	83%/80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 22		2-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	72%/76%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 22		4-Nov-08	M200.7	Copper	4.21	mg/l	MS/MSD	49%/46%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 22		14-Oct-08	M200.7	Copper	1.88	mg/l	MS/MSD	74%/65%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 22		21-Oct-08	E340.2	Fluoride	1.6	mg/l	MS	111%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 22		21-Oct-08	M200.8	Selenium	0.007	mg/l	MB	0.00047 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
TEST 22		26-Aug-08	M200.8	Selenium	0.131	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 22S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 22S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 22S		10-Feb-09	E340.2	Fluoride	1.3	mg/l	HT	38 days	H3	None	Analysis requested past holding time.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 22S		18-Nov-08	M200.7	Copper	2.26	mg/l	MS	80%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 22S		30-Dec-08	M200.7	Copper	5.69	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 22S		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 23		4-Nov-08	M200.8	Selenium	0.0494	mg/l	MS/MSD	136%/136%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 23		7-Apr-09	E200.8	Selenium	0.0364	mg/l	CCB	0.004 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 23		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 23		11-Nov-08	M200.7	Silica	26.9	mg/l	MS/MSD	59%/60%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 23		11-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	76%/74%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 23		11-Nov-08	M200.8	Selenium	0.0266	mg/l	MS	131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 23		18-Nov-08	M200.8	Selenium	0.0364	mg/l	MSD	131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 23		21-Oct-08	M200.8	Selenium	0.019	mg/l	MB	0.00047 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 23		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 23		26-Aug-08	E245.1	Mercury	<0.001	mg/l	MS	83.50%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 23		26-Aug-08	M200.7	Silver	<0.03	mg/l	MS	25%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 23		26-Aug-08	M200.8	Selenium	0.0094	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 23		30-Dec-08	M200.7	Nickel	<0.3 D1	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 23		30-Dec-08	M200.7	Silica	14.5	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 23		30-Jun-09	E200.8	Selenium	0.0796	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST 24		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 24		10-Feb-09	E325.2	Chloride (as Cl)	1 F	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 24		10-Feb-09	E340.2	Fluoride	<5 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 24		16-Sep-08	E340.2	Fluoride	3.8	mg/l	MSD	61%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 24		21-Oct-08	M200.8	Selenium	0.0129	mg/l	MB	0.00047 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 24		25-Nov-08	M200.8	Arsenic	<0.004 D1	mg/l	MS/MSD	132%/133%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 24		25-Nov-08	M200.8	Selenium	0.0265	mg/l	MS/MSD	134%/136%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 24		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 24		26-Aug-08	M200.8	Selenium	0.0335	mg/l	MB	0.00011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 24		27-Jan-09	E200.7	Silica	12.3	mg/l	MS/MSD	182%/188%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 24		30-Dec-08	M200.7	Copper	48.7	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 25		4-Nov-08	E340.2	Fluoride	1.2	mg/l	MS	68%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 25		21-Oct-08	M200.8	Selenium	0.0084	mg/l	MB	0.00047 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
TEST 25		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 25		26-Aug-08	M200.8	Selenium	0.0347	mg/l	MB	0.00011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 25S		10-Feb-09	E200.8	Selenium	0.0033	mg/l	MS/MSD	140%/135%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 25S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 25S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 25S		10-Feb-09	E340.2	Fluoride	00.2 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 25S		30-Dec-08	M200.7	Copper	3.29	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 25S		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 26		3-Feb-09	E200.7	Molybdenum	00.02 F	mg/l	MS/MSD	122%/122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 26		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 26		12-Jan-10	E200.7	Copper	30.5	mg/l	MS/MSD	-400%/-455%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 26		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 26		25-Nov-08	M200.8	Antimony	00.0007 F	mg/l	CCV	112%	V2	High	Calibration verification recovery was above method acceptance limits. This target analyte was detected in the sample. The sample could not be reanalyzed due to insufficient sample.
TEST 26		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 26		26-Aug-08	M200.8	Selenium	0.0056	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 26		30-Dec-08	M200.7	Copper	0.44	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 26		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 27		10-Feb-09	E200.7	Aluminum	4.58	mg/l	MS/MSD	82%/76%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 27		10-Feb-09	E200.7	Copper	2.78	mg/l	MS/MSD	45%/49%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 27		10-Feb-09	E200.7	Iron	14.3	mg/l	MS/MSD	22%/34%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 27		10-Feb-09	E200.7	Nickel	00.03 F	mg/l	MS/MSD	122%/125%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 27		10-Feb-09	E200.7	Silica	5.2	mg/l	MSD	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 27		10-Feb-09	E200.7	Silver	<0.03	mg/l	MS/MSD	73%/71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 27		10-Feb-09	E200.7	Zinc	7.59	mg/l	MS/MSD	-28%/-30%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 27		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 27		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 27		10-Feb-09	E340.2	Fluoride	3.3 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 27		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 27		25-Nov-08	M200.8	Selenium	0.0103	mg/l	CCB	0.00035 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 27		26-Aug-08	E340.2	Fluoride	158 D1	mg/l	MS	77%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 27		26-Aug-08	M200.8	Selenium	0.0434	mg/l	MB	0.00011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 27		30-Dec-08	M200.7	Copper	1.12	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 27		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 28		7-Apr-09	E200.8	Selenium	0.0247	mg/l	CCB	0.004 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 28		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 28		18-Nov-08	E340.2	Fluoride	40.6 D2	mg/l	MS	71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 28		21-Oct-08	M200.8	Selenium	0.0063	mg/l	MB	0.00047 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
TEST 28		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 28		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 28		25-Nov-08	M200.8	Selenium	0.0146	mg/l	CCB	0.00035 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 28		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 28		26-Aug-08	M200.8	Selenium	0.0367	mg/l	MB	0.00011 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 28		27-Jan-09	E340.2	Fluoride	32.7 D1	mg/l	MS	88%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 28		30-Dec-08	M200.7	Copper	17.7	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 28		30-Jun-09	E200.8	Selenium	0.104	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 29		7-Oct-08	E340.2	Fluoride	12.4 D1	mg/l	MS	55%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 29		7-Oct-08	M200.8	Lead	0.045	mg/l	MB	0.00035 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 29		9-Sep-08	E340.2	Fluoride	6.1	mg/l	MS	68%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 29		21-Oct-08	M200.8	Selenium	0.0185	mg/l	MB	0.00047 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
TEST 29		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 29S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 29S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 29S		10-Feb-09	E340.2	Fluoride	<3 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 29S		16-Dec-08	M200.7	Copper	4.26	mg/l	MS/MSD	-24%/-20%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 29S		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 29S		25-Nov-08	M200.8	Lead	0.016	mg/l	CCB	0.00035 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 29S		30-Dec-08	M200.7	Copper	4.59	mg/l	CCB	0.033 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 29S		30-Dec-08	M200.7	Nickel	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 30		3-Feb-09	E200.7	Copper	72.5	mg/l	MS/MSD	-858%/-969%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		3-Feb-09	E200.7	Silica	7.2	mg/l	MS/MSD	121%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		6-Jan-09	E325.2	Chloride (as Cl)	1 F	mg/l	MS	115%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		6-Jan-09	M200.7	Copper	75.3	mg/l	MS/MSD	-1568%/-1460%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		7-Apr-09	E200.8	Selenium	0.0081	mg/l	CCB	0.004 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 30		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	MS	131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		10-Feb-09	M200.7	Copper	70.9	mg/l	MS/MSD	-1062%/-1001%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		10-Feb-09	M200.7	Molybdenum	<0.05	mg/l	MS/MSD	124%/127%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 30		13-Jan-09	E325.2	Chloride (as Cl)	<5	mg/l	MS	114%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 30		13-Jan-09	M200.7	Copper	70.2	mg/l	MS/MSD	-764%/-866%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		13-Jan-09	M200.7	Silica	7	mg/l	MS/MSD	118%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		13-Jan-09	M200.7	Silver	<0.03	mg/l	MS/MSD	81%/74%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 30		20-Jan-09	E200.7	Copper	71.7	mg/l	MS/MSD	-718%/-873%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB/ MS/MSD	124%/ 121%/119%	L1M1	High	The associated blank spike recovery was above laboratory acceptance limits. MS recovery was high. The method control sample recovery was acceptable.
TEST 30		20-Jan-09	E200.7	Silica	7.8	mg/l	MS/MSD	117%/116.5%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		23-Dec-08	M200.7	Aluminum	2.92	mg/l	MSD	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 30		23-Dec-08	M200.7	Copper	74	mg/l	MS/MSD	-693%/-902%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 30		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 30		25-Nov-08	M200.8	Lead	0.159	mg/l	CCB	0.00035 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 30		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 30		27-Jan-09	E200.7	Copper	66.9	mg/l	MS/MSD	-604%/-558%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		27-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB/ MS/MSD	117%/ 118%/119%	L1M1	High	The associated blank spike recovery was above laboratory acceptance limits. MS recovery was high. The method control sample recovery was acceptable. MS run twice.
TEST 30		27-Jan-09	E200.7	Silica	9	mg/l	MS/MSD	118%/121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		27-Jan-09	E200.8	Lead	0.169	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 30		30-Dec-08	E325.2	Chloride (as Cl)	1 F	mg/l	MS	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 30		30-Dec-08	M200.7	Copper	69.6	mg/l	MS/MSD	-994%/-1017%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 30		30-Jun-09	E200.8	Selenium	0.0252	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 31		4-Nov-08	M200.7	Iron	8.88	mg/l	MS/MSD	35%/41%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		4-Nov-08	M200.7	Silica	3.2	mg/l	MS/MSD	121%/123%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		4-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	70%/74%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		7-Oct-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	111%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		7-Oct-08	M200.7	Aluminum	23.1	mg/l	MS	33%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		7-Oct-08	M200.7	Copper	63	mg/l	MS/MSD	-808%/-854%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		7-Oct-08	M200.7	Iron	29.4	mg/l	MS/MSD	-35%/-46%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		7-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	78%/80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		7-Oct-08	M200.7	Zinc	28.4	mg/l	MS/MSD	-256%/-289%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		9-Sep-08	M200.7	Aluminum	18.9	mg/l	MS/MSD	-15%/4.9%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		9-Sep-08	M200.7	Copper	8.44	mg/l	MS/MSD	-49%/-35%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		9-Sep-08	M200.7	Iron	45.3	mg/l	MS/MSD	-288%/-277%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		9-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	43%/51%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		9-Sep-08	M200.7	Zinc	7.53	mg/l	MS/MSD	9%/10%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		14-Oct-08	M200.7	Aluminum	8.84	mg/l	MS/MSD	80%/51	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
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APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 31		14-Oct-08	M200.7	Copper	15.2	mg/l	MS/MSD	-42%/-113%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		14-Oct-08	M200.7	Iron	22.5	mg/l	MS/MSD	7%/-44%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		14-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	55%/57%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		14-Oct-08	M200.7	Zinc	8.94	mg/l	MSD	-27%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		16-Sep-08	M200.7	Aluminum	12.9	mg/l	MS/MSD	60%/52%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		16-Sep-08	M200.7	Copper	12.3	mg/l	MS/MSD	-17%/-39%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		16-Sep-08	M200.7	Iron	16.5	mg/l	MS/MSD	6%/-5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		16-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	77%/80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		16-Sep-08	M200.7	Zinc	6.44	mg/l	MS/MSD	21%/8%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		21-Oct-08	M200.7	Aluminum	11	mg/l	MS/MSD	61%/58%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		21-Oct-08	M200.7	Iron	26.1	mg/l	MS/MSD	-8.5%/4.5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		21-Oct-08	M200.7	Silver	<0.03	mg/l	MB	54%/52%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		21-Oct-08	M200.7	Zinc	12.1	mg/l	MS/MSD	-35%/-14%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		21-Oct-08	M200.8	Selenium	0.0242	mg/l	MB	0.00047 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 31		23-Sep-08	M200.7	Aluminum	16	mg/l	MSD	68%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		23-Sep-08	M200.7	Copper	39.2	mg/l	MS/MSD	-493%/-396%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		23-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	22%/16%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		23-Sep-08	M200.7	Zinc	16.2	mg/l	MS/MSD	-119%/-72%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		26-Aug-08	M200.8	Selenium	0.0281 D1	mg/l	LFB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 31		28-Oct-08	M200.7	Aluminum	11.9	mg/l	MS/MSD	77%/72%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		28-Oct-08	M200.7	Boron	<0.05	mg/l	MS/MSD	116%/116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		28-Oct-08	M200.7	Copper	40.5	mg/l	MS/MSD	-360%/-418%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		28-Oct-08	M200.7	Iron	29.9	mg/l	MS/MSD	33%/-7.6%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		28-Oct-08	M200.7	Magnesium	00.3 F	mg/l	MS/MSD	119%/119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		28-Oct-08	M200.7	Molybdenum	<0.05	mg/l	MS/MSD	116%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		28-Oct-08	M200.7	Potassium	1.6 F	mg/l	MS/MSD	124%/123%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	51%/45%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		28-Oct-08	M200.7	Sodium	<2	mg/l	MS/MSD	123%/122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		28-Oct-08	M200.7	Vanadium	<0.03	mg/l	MS/MSD	119%/121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		28-Oct-08	M200.7	Zinc	15.3	mg/l	MS/MSD	-19%/-51%	M3	High	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		30-Sep-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31		30-Sep-08	M200.7	Aluminum	27.7	mg/l	MS/MSD	-53%/-5.6%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 31		30-Sep-08	M200.7	Copper	47	mg/l	MS/MSD	-683%/-553%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		30-Sep-08	M200.7	Iron	31.9	mg/l	MS/MSD	-135%/-99%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31		30-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	84%/76%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31		30-Sep-08	M200.7	Zinc	27	mg/l	MS/MSD	-436%/-338%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		2-Dec-08	M200.7	Copper	8	mg/l	MS/MSD	-11%/-39%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		2-Dec-08	M200.7	Iron	10.4	mg/l	MS/MSD	66%/46%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		2-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	39%/48%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31S		2-Dec-08	M200.7	Zinc	4.99	mg/l	MS/MSD	58%/44%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		9-Dec-08	M200.7	Copper	5.28	mg/l	MS/MSD	47%/44%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		9-Dec-08	M200.7	Iron	8.84	mg/l	MS/MSD	82%/76%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		9-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	73%/76%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31S		9-Dec-08	M200.7	Zinc	3.66	mg/l	MS/MSD	75%/79%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		18-Nov-08	M200.7	Copper	11.4	mg/l	MS/MSD	-88%/30%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

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Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 31S		18-Nov-08	M200.7	Iron	9.83	mg/l	MS/MSD	27%/50%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		18-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	67%/71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31S		18-Nov-08	M200.7	Zinc	6.17	mg/l	MS/MSD	13%/27%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		25-Nov-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	113%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 31S		25-Nov-08	M200.7	Copper	6.81	mg/l	MS/MSD	38%/-19%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		25-Nov-08	M200.7	Iron	7.37	mg/l	MS/MSD	61%/55%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		25-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	73%/70%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 31S		25-Nov-08	M200.7	Zinc	3.82	mg/l	MS/MSD	55%/48%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 31S		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 32		2-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	46%/39%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 32		26-Aug-08	M200.7	Calcium	361	mg/l	MS/MSD	39%/78%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 32		26-Aug-08	M200.7	Magnesium	376	mg/l	MS	61%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 32		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 32		26-Aug-08	M200.7	Sodium	214	mg/l	MS	82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 32		26-Aug-08	M200.8	Selenium	0.225	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 32S		10-Feb-09	E200.7	Silver	<0.03	mg/l	MS/MSD	47%/54%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 32S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 32S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 32S		10-Feb-09	E340.2	Fluoride	<10 D3	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 32S		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

CCB	continuing calibration blank	MB	method blank
CCV	continuing calibration verification	MCL	maximum contaminant level.
FD	field duplicate	MI	matrix interference
HT	holding time	MS/MSD	matrix spike/matrix spike duplicate.
ICS	interference check sample	PRES	preservative
ICV	initial calibration verification	RPD	relative percent difference.
IS	internal standard	SC	Saturated Cell Test
LFB	laboratory fortified blank	SD	serial dilution
LR	laboratory replicate		

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 32S		23-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 32S		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 32S		25-Nov-08	M200.8	Selenium	0.0074	mg/l	CCB	0.00035 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 33		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 33		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 33		10-Feb-09	E340.2	Fluoride	00.1 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 33		18-Nov-08	M200.8	Selenium	00.0002 F	mg/l	MSD	132%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 33		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 33		26-Aug-08	E245.1	Mercury	<0.001	mg/l	MSD	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 33		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB/ MS/MSD	116%/ 41%/48%	L1M2	High	The associated blank spike was above laboratory acceptance limits. MS recovery was a low. The method control recovery was acceptable.
TEST 34		5-May-09	E200.7	Silver	<0.03	mg/l	MS/MSD	55%/55%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 34		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 34		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 34		18-Nov-08	E340.2	Fluoride	00.1 F	mg/l	ICV/MS	105.4%/86%	V1M2	HL	Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample. MS recovery was low. The method control sample recovery was acceptable.
TEST 34		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 34		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 34		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	122%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 34		25-Nov-08	M200.8	Arsenic	<0.002	mg/l	MS/MSD	132%/132%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 34		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 35		2-Jun-09	E200.7	Silver	<0.03	mg/l	MS/MSD	67%/70%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 35		4-Nov-08	M200.8	Selenium	0.003	mg/l	MS/MSD	152%/144%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		7-Apr-09	E200.7	Silver	<0.03	mg/l	MS/MSD	74%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 35		10-Mar-09	E200.7	Silver	<0.03	mg/l	MS/MSD	53%/50%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 35		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB/ MS/MS	124%/ 118%/117%	L1M1	High	The associated blank spike recovery was above laboratory acceptance limits. MS recovery was high. The method control sample recovery was acceptable. MS run twice.
TEST 35		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 35		10-Mar-09	E300	Chloride (as Cl)	<3	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		18-Nov-08	E340.2	Fluoride	1.1	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 35		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 35		25-Aug-09	E200.7	Silica	4.9	mg/l	MS/MSD	130%/133%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

CCB	continuing calibration blank	MB	method blank
CCV	continuing calibration verification	MCL	maximum contaminant level.
FD	field duplicate	MI	matrix interference
HT	holding time	MS/MSD	matrix spike/matrix spike duplicate.
ICS	interference check sample	PRES	preservative
ICV	initial calibration verification	RPD	relative percent difference.
IS	internal standard	SC	Saturated Cell Test
LFB	laboratory fortified blank	SD	serial dilution
LR	laboratory replicate		

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DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 35		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV/MS	112%/116%	V1M1	High	Calibration verification recovery was above method acceptance limits. This target analyte was not detected. MS/MSD recoveries were high.
TEST 35		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 35		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 35		26-Aug-08	M200.8	Selenium	0.0173	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 35		28-Jul-09	E200.7	Magnesium	1.9	mg/l	MS/MSD	117.5%/117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		28-Jul-09	E200.7	Silica	3.6	mg/l	MS/MSD	119%/119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		28-Jul-09	E200.7	Silver	<0.03	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 35		28-Jul-09	E200.7	Vanadium	<0.03	mg/l	MS/MSD	119%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		28-Jul-09	E200.7	Zinc	<0.05	mg/l	MS/MSD	121%/122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		30-Jun-09	E200.7	Silica	3.7	mg/l	MS/MSD	126%/125%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 35		30-Jun-09	E200.7	Silver	<0.03	mg/l	MS/MSD	75%/79%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 36		7-Apr-09	E200.7	Molybdenum	00.01 F	mg/l	MSD	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 36		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 36		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 36		18-Nov-08	E340.2	Fluoride	2.6	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 36		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 36		25-Aug-09	E200.7	Nickel	0.02 F	mg/l	MS/MSD	118%/116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 36		25-Aug-09	E200.7	Silver	<0.03	mg/l	MS/MSD	77%/66%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 36		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 36		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 36		25-Nov-08	M200.8	Selenium	0.0046	mg/l	CCB	0.00035 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 36		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 36		26-Aug-08	M200.8	Selenium	0.0756	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 36		30-Jun-09	E200.7	Silver	00.02 F	mg/l	MS/MSD	47%/43%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 37		2-Sep-08	E325.2	Chloride (as Cl)	70 D1	mg/l	MS	67%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 37		10-Mar-09	E200.7	Zinc	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 37		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 37		16-Dec-08	E340.2	Fluoride	0.6	mg/l	MS	80%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 37		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 37		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 37		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 37		26-Aug-08	E340.2	Fluoride	00.2 F	mg/l	MS	88%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 37		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 37		26-Aug-08	M200.8	Selenium	0.0072	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 38		25-Nov-08	M200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 38		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 39		9-Sep-08	E340.2	Fluoride	1.1	mg/l	MS	89%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 39		26-Aug-08	M200.7	Silver	<0.03	mg/l	LFB	116%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 39		26-Aug-08	M200.8	Selenium	0.138	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 40		25-Nov-08	M200.8	Selenium	0.0011	mg/l	MS/MSD	138%/137%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 40		26-Aug-08	M200.7	Silver	<0.03	mg/l	MS/MSD	76%/79%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 40		26-Aug-08	M200.8	Selenium	0.101	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 41		2-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	113%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		2-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	57%/59%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		2-Sep-08	M200.8	Selenium	0.0985	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 41		4-Nov-08	M200.7	Manganese	<0.03	mg/l	MSD	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		4-Nov-08	M200.7	Manganese	<0.03	mg/l	MSD	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		4-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	61%/61%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		4-Nov-08	M200.8	Antimony	<0.002	mg/l	IS	126%	N1	High	IS recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
TEST 41		7-Oct-08	E340.2	Fluoride	0.6	mg/l	MS	85%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		7-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	81%/76%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		9-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	114%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		9-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	83%/84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		9-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	78%/72%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		9-Sep-08	M200.7	Sodium	274	mg/l	MS/MSD	80%/69%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		14-Oct-08	M200.7	Calcium	22	mg/l	MS	119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		14-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	69%/60%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		16-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	84%/85%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		18-Nov-08	M200.7	Silica	7.4	mg/l	MS/MSD	123%/118.5%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		18-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	76%/75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		21-Oct-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		21-Oct-08	M200.7	Manganese	<0.03	mg/l	MS	117%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 41		21-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	77%/70%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		25-Nov-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	114%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		25-Nov-08	M200.7	Silica	5.9	mg/l	MS	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		25-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	46%/33%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		26-Aug-08	M200.8	Selenium	0.119	mg/l	MB	0.00053 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 41		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	70%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 41		30-Sep-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 41		30-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	80%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 42		26-Aug-08	M200.7	Sodium	857 D1	mg/l	MB/MS/MSD	0.54 mg/k/78%/76%	B7M2	Low	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank. MS recovery was low. The method control sample recovery was acceptable.
TEST 43		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 43		14-Oct-08	E340.2	Fluoride	1.5 FD1	mg/l	MS	67%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 43		18-Nov-08	M200.8	Selenium	0.0039	mg/l	MS/MSD	136%/138%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 43		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 43		25-Nov-08	M200.7	Copper	26.2	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 43		30-Dec-08	M200.7	Sodium	<2	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 43		30-Jun-09	E200.8	Selenium	0.0038	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST 44		2-Sep-08	M200.8	Selenium	0.0565	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 44		7-Apr-09	E200.8	Selenium	0.0118	mg/l	CCB	0.00031 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 44		7-Oct-08	M200.8	Cadmium	0.0509	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 44		9-Dec-08	M200.7	Copper	109 D1	mg/l	MS/MSD	-732%/-634.5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 44		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 44		13-Jan-09	M200.7	Copper	103 D1	mg/l	CCB	0.035 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 44		18-Nov-08	E340.2	Fluoride	<10 D2	mg/l	MS/ICV	84%/105.4%	M2V1	HL	MS recovery was low. The method control sample recovery was acceptable. Calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 44		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	MS/MSD	120%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 44		23-Dec-08	M200.7	Copper	118 D1	mg/l	MS/MSD	0%/0%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 44		23-Dec-08	M200.7	Iron	16.8	mg/l	MS/MSD	44%/58.5%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 44		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 44		25-Nov-08	M200.7	Copper	129 D1	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 44		26-Aug-08	M200.7	Silver	<0.03	mg/l	MS/MSD	41%/48%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 44		30-Dec-08	M200.7	Magnesium	<1	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 44		30-Dec-08	M200.7	Sodium	<2	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 44		30-Jun-09	E200.8	Selenium	0.0123	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST 45		2-Sep-08	M200.7	Aluminum	7.27	mg/l	MS/MSD	33%/25%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 45		2-Sep-08	M200.7	Copper	74.9	mg/l	MS/MSD	-922%/-1039%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 45		2-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	36%/43%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 45		2-Sep-08	M200.8	Selenium	0.0351	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 45		7-Oct-08	M200.8	Cadmium	0.0214	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 45		10-Feb-09	E200.8	Selenium	0.0118	mg/l	MS	132%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 45		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 45		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 45		10-Feb-09	E340.2	Fluoride	<10 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 45		18-Nov-08	E340.2	Fluoride	<10 D2	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 45		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	117%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 45		23-Dec-08	M200.7	Iron	7.85	mg/l	MS/MSD	60%/26%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 45		23-Dec-08	M200.7	Manganese	00.011 F	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 45		23-Dec-08	M200.7	Zinc	0.14	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 45		25-Nov-08	M200.7	Copper	60.8	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 45		30-Dec-08	M200.7	Magnesium	<1	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 45		30-Dec-08	M200.7	Sodium	<2	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 46		2-Sep-08	M200.8	Selenium	0.0143	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 46		3-Feb-09	E200.7	Copper	11.5	mg/l	MS/MSD	-73%/-41%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		3-Feb-09	E200.7	Silica	2	mg/l	MS/MSD	153%/156%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		4-Nov-08	M200.8	Selenium	0.0053	mg/l	MS/MSD	152%/151%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		6-Jan-09	E325.2	Chloride (as Cl)	<5	mg/l	MS	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		6-Jan-09	M200.7	Copper	11.2	mg/l	MS/MSD	-187%/-206%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		6-Jan-09	M200.7	Silica	1.7 F	mg/l	MS/MSD	130%/132%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		7-Oct-08	M200.8	Cadmium	0.0127	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 46		9-Dec-08	E340.2	Fluoride	<5 D1	mg/l	MS	89%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 46		10-Feb-09	E200.7	Copper	16.4	mg/l	MS/MSD	-160%/-156%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 46		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 46		10-Feb-09	E340.2	Fluoride	<5 D1	mg/l	HT	DL/38 days	H3	None	Analysis requested past holding time.
TEST 46		13-Jan-09	E325.2	Chloride (as Cl)	<5	mg/l	MS	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		13-Jan-09	M200.7	Copper	9.81	mg/l	MS/MSD	-9%/-30%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		13-Jan-09	M200.7	Silica	2	mg/l	MS/MSD	162%/165%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		13-Jan-09	M200.7	Silver	<0.03	mg/l	MS/MSD	74%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 46		16-Dec-08	M200.7	Copper	17.3	mg/l	MS/MSD	-435%/-428%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		16-Dec-08	M200.7	Manganese	00.005 F	mg/l	MS/MSD	116.5%/1118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		16-Dec-08	M200.7	Silica	2.4	mg/l	MS/MSD	117%/119.5%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 46		18-Nov-08	E340.2	Fluoride	<5 D2	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 46		20-Jan-09	E200.7	Copper	8.97	mg/l	MS/MSD	57%/27%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB/ MS/MSD	124%/ 118%120%	L1M1	High	The associated blank spike recovery was above laboratory acceptance limits. MS recovery was high. The method control sample recovery was acceptable.
TEST 46		20-Jan-09	E200.7	Silica	1.9 F	mg/l	MS/MSD	156%/156%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		21-Oct-08	M200.8	Selenium	0.0065	mg/l	MB	0.00016 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 46		25-Nov-08	M200.7	Copper	17.8	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 46		27-Jan-09	E200.7	Copper	10.6	mg/l	MS/MSD	-12%/-68%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		27-Jan-09	E200.7	Iron	2.48	mg/l	MSD	80.50%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 46		27-Jan-09	E200.7	Molybdenum	<0.05	mg/l	MS/MSD	120%/118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		27-Jan-09	E200.7	Silica	1.8 F	mg/l	MS/MSD	162%/162%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Barium	<0.02	mg/l	MSD	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Calcium	00.7 F	mg/l	MS/MSD	125%/127%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Cobalt	00.02 F	mg/l	MS/MSD	117%/121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Copper	14.2	mg/l	MS/MSD	-216%/-155%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 46		30-Dec-08	M200.7	Magnesium	<1	mg/l	MS/MSD	132.5%/136%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Manganese	<0.03	mg/l	MS/MSD	121%/124%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Molybdenum	<0.05	mg/l	MS/MSD	126%/131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Nickel	<0.05	mg/l	MS/MSD	117%/121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Potassium	<2	mg/l	MS/MSD	118%/121%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Silica	2.5	mg/l	MS/MSD	124%/131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 46		30-Dec-08	M200.7	Sodium	<2	mg/l	MS/MSD	111%/128%/133%	V1M1	High	Calibration verification recovery was above method acceptance limits. This target analyte was not detected. MS/MSD recoveries were high.
TEST 46		30-Dec-08	M200.7	Zinc	00.03 F	mg/l	MS/MSD	121%/124%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 47		2-Sep-08	M200.8	Selenium	0.0047	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

CCB	continuing calibration blank	MB	method blank
CCV	continuing calibration verification	MCL	maximum contaminant level.
FD	field duplicate	MI	matrix interference
HT	holding time	MS/MSD	matrix spike/matrix spike duplicate.
ICS	interference check sample	PRES	preservative
ICV	initial calibration verification	RPD	relative percent difference.
IS	internal standard	SC	Saturated Cell Test
LFB	laboratory fortified blank	SD	serial dilution
LR	laboratory replicate		

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 47		7-Oct-08	M200.7	Zinc	335 D1	mg/l	MS/MSD	-211%/-55%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 47		7-Oct-08	M200.8	Cadmium	0.0151	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 47		21-Oct-08	M200.8	Selenium	0.0067	mg/l	MB	0.00016 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 47		26-Aug-08	M200.7	Silver	<0.1 D1	mg/l	CCV	128%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 47S		10-Feb-09	E200.7	Zinc	15.2	mg/l	MS/MSD	-135%/-126%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 47S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 47S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 47S		10-Feb-09	E340.2	Fluoride	2.5 FD1	mg/l	HT	DL/38 days	H3	None	Analysis requested past holding time.
TEST 47S		18-Nov-08	E340.2	Fluoride	3.8 D2	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 47S		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB	124%	L1	High	The associated blank spike recovery was above laboratory acceptance limits.
TEST 47S		23-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 47S		23-Dec-08	E340.2	Fluoride	1.4 FD1	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 47S		23-Dec-08	M200.7	Copper	11.6	mg/l	MS/MSD	-183%/-133%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 47S		23-Dec-08	M200.7	Iron	25.4	mg/l	MS/MSD	-22%/52%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 47S		23-Dec-08	M200.7	Zinc	15	mg/l	MS/MSD	-138%/-51%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 47S		25-Nov-08	M200.7	Copper	9.1	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 47S		27-Jan-09	E200.8	Arsenic	<0.002	mg/l	IS	127%	N1	High	IS recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
TEST 47S		30-Dec-08	M200.7	Magnesium	<1	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 47S		30-Dec-08	M200.8	Arsenic	<0.002	mg/l	IS	126%	N1	High	IS recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
TEST 48		2-Sep-08	M200.8	Selenium	0.0066	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 48		7-Oct-08	M200.8	Cadmium	0.0095	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 48		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 48		9-Sep-08	M200.7	Nickel	<0.05	mg/l	CCV	118%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 48		26-Aug-08	E340.2	Fluoride	75 D1	mg/l	MS/MSD	88%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 48S		11-Nov-08	M200.8	Arsenic	<0.002	mg/l	IS	132%	N1	High	IS recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
TEST 48S		18-Nov-08	E340.2	Fluoride	2 FD2	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 48S		25-Nov-08	M200.7	Copper	39.9	mg/l	CCB	0.032 mg/l/ -1104%/-1026%	B3M3	None	Target analyte detected in calibration blank at or above the method reporting limit. The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 49		2-Sep-08	E340.2	Fluoride	26 D1	mg/l	MS	30%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 49		7-Oct-08	E340.2	Fluoride	39 D1	mg/l	MS	55%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 49		7-Oct-08	M200.8	Cadmium	0.0048	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 49		7-Oct-08	M200.8	Lead	0.0391	mg/l	MB	0.003 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 49		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 49		9-Sep-08	M200.7	Nickel	<0.05	mg/l	CCV	118%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 49		21-Oct-08	E340.2	Fluoride	9 D1	mg/l	MS	69%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 49S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 49S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 49S		10-Feb-09	E340.2	Fluoride	2 FD2	mg/l	HT	DL/38 days	H3	None	Analysis requested past holding time.
TEST 49S		18-Nov-08	E340.2	Fluoride	2 FD2	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 49S		25-Nov-08	M200.7	Copper	15.9	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 49S		27-Jan-09	E200.8	Lead	0.0056	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 49S		30-Dec-08	M200.7	Magnesium	<1	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 49S		30-Dec-08	M200.7	Sodium	<2	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 50		2-Sep-08	M200.8	Selenium	0.111	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 50		4-Nov-08	E340.2	Fluoride	47 D1	mg/l	MS	79.50%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 50		7-Oct-08	M200.8	Cadmium	0.0322	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 50		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 50		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 50		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 50		10-Feb-09	E340.2	Fluoride	29 D1	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 50		13-Jan-09	M200.7	Copper	211 D1	mg/l	CCB	0.031 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 50		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB/CCV	124%/123%	L1V1	High	The associated blank spike recovery was above laboratory acceptance limits. Calibration verification recovery was above limits. This target analyte was not detected in the sample.
TEST 50		21-Oct-08	M200.8	Selenium	0.0723	mg/l	MB	0.00016 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 50		23-Sep-08	M200.8	Selenium	0.132 D2	mg/l	MB	0.00032 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 50		25-Nov-08	M200.7	Copper	213 D1	mg/l	CCB	0.032 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 50		25-Nov-08	M200.8	Selenium	0.0764 D1	mg/l	CCB	0.0051 mg/l	B3	None	Target analyte detected in calibration blank at or above the method reporting limit.
TEST 50		26-Aug-08	M200.7	Aluminum	101	mg/l	MS/MSD	-270%/-279%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 50		26-Aug-08	M200.7	Calcium	410	mg/l	MS/MSD	64%/66%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 50		26-Aug-08	M200.7	Copper	2.16	mg/l	MS/MSD	63%/59%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 50		26-Aug-08	M200.7	Iron	92.6	mg/l	MS/MSD	-233%/-207%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 50		26-Aug-08	M200.7	Manganese	25.4	mg/l	MS/MSD	-79.5%/-84%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 50		26-Aug-08	M200.7	Silver	<0.03	mg/l	MS/MSD	72%/73%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 50		26-Aug-08	M200.7	Zinc	7.21	mg/l	MS/MSD	38%/45%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 51		2-Dec-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	113%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		2-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	54%/52%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 51		2-Sep-08	M200.8	Selenium	0.0341	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 51		4-Nov-08	M200.7	Calcium	191	mg/l	MSD	81.50%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		7-Oct-08	E325.2	Chloride (as Cl)	1 F	mg/l	MS	112%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		7-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	75%/76%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		9-Dec-08	M200.7	Silver	<0.03	mg/l	MS/MSD	83%/84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		9-Sep-08	M200.7	Iron	<0.05	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		9-Sep-08	M200.7	Nickel	<0.05	mg/l	CCV	118%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		9-Sep-08	M200.7	Silica	4.3	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		9-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	70%/79%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		11-Nov-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	124%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		11-Nov-08	M200.7	Manganese	0.148	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		11-Nov-08	M200.7	Silver	<0.03	mg/l	MSD	82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		14-Oct-08	E325.2	Chloride (as Cl)	<5	mg/l	MS	113%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		14-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	50%/51%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		16-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	75%/74%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		18-Nov-08	E340.2	Fluoride	1.1	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		18-Nov-08	M200.7	Silica	3.7	mg/l	MS/MSD	127%/129%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		18-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD	74%/74%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		21-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	63%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		21-Oct-08	M200.8	Selenium	0.0065	mg/l	MB	0.00016 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 51		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		25-Nov-08	M200.7	Aluminum	00.06 F	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		25-Nov-08	M200.7	Copper	<0.05	mg/l	MS/MSD	-1106%/-1118%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 51		25-Nov-08	M200.7	Manganese	0.227	mg/l	MS	115.50%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		25-Nov-08	M200.7	Silica	3.8	mg/l	MSD	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		25-Nov-08	M200.7	Silica	3.8	mg/l	MS	117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		25-Nov-08	M200.7	Silver	<0.03	mg/l	MS/MSD MS/MSD	37%/35% 50%/49%	M2	Low	MS recovery was low. The method control sample recovery was acceptable. (Run twice.)

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 51		28-Oct-08	M200.7	Calcium	200	mg/l	MSD MSD	71%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		28-Oct-08	M200.7	Potassium	7.3	mg/l	MSD	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		28-Oct-08	M200.7	Silica	4	mg/l	MSD	118%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST 51		28-Oct-08	M200.7	Silver	<0.03	mg/l	MS/MSD	75%/77%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 51		30-Dec-08	M200.7	Sodium	<2	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 51		30-Jun-09	E200.8	Selenium	0.0029	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST 51		30-Sep-08	M200.7	Silver	<0.03	mg/l	MS/MSD	73%/75%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 52		2-Sep-08	M200.8	Selenium	0.0229	mg/l	MB	0.00043 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 52		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 52		9-Sep-08	M200.7	Iron	<0.05	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 52		9-Sep-08	M200.7	Nickel	<0.05	mg/l	CCV	118%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 52S		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 52S		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 52S		10-Feb-09	E340.2	Fluoride	00.3 F	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 52S		18-Nov-08	E340.2	Fluoride	0.8	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 52S		20-Jan-09	E200.7	Molybdenum	<0.05	mg/l	LFB/CCV	124%/123%	L1V1	High	The associated blank spike recovery was above laboratory acceptance limits. Calibration verification recovery was above limits. This target analyte was not detected in the sample.
TEST 52S		30-Dec-08	M200.7	Molybdenum	<0.05	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 52S		30-Dec-08	M200.7	Silica	<2	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 53		7-Oct-08	M200.8	Cadmium	0.0048	mg/l	MB	0.00039 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 53		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 53		9-Sep-08	M200.7	Iron	<0.05	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 53		10-Feb-09	E245.1	Mercury	<0.001	mg/l	HT	37 days	H3	None	Analysis requested past holding time.
TEST 53		10-Feb-09	E325.2	Chloride (as Cl)	<5	mg/l	HT	36 days	H3	None	Analysis requested past holding time.
TEST 53		10-Feb-09	E340.2	Fluoride	<5 D2	mg/l	HT	38 days	H3	None	Analysis requested past holding time.
TEST 53		18-Nov-08	E340.2	Fluoride	6 D2	mg/l	ICV	105.40%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 53		25-Nov-08	E340.2	Fluoride	4.7	mg/l	MS	57%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST 53		27-Jan-09	E200.8	Lead	0.0191	mg/l	MB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 53		30-Dec-08	M200.7	Magnesium	<1	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 53		30-Dec-08	M200.7	Molybdenum	<0.05	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST 53		30-Dec-08	M200.7	Sodium	<2	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		7-Apr-09	E200.8	Selenium	0.0039	mg/l	CCB	0.00031 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 54		9-Sep-08	M200.7	Chromium, Total	<0.05	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		9-Sep-08	M200.7	Iron	<0.05	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		9-Sep-08	M200.7	Magnesium	33.3	mg/l	CCV	118%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		9-Sep-08	M200.7	Nickel	<0.05	mg/l	CCV	118%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		10-Mar-09	E200.8	Antimony	<0.002	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		21-Oct-08	M200.8	Selenium	0.0073	mg/l	MB	0.00016 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST 54		23-Sep-08	M200.8	Lead	<0.0005	mg/l	MB	0.00032 mg/l	B4	None	Target analyte detected in blank at or above method acceptance criteria.
TEST 54		25-Aug-09	E200.7	Sodium	<2	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		30-Dec-08	M200.7	Calcium	469	mg/l	MS	78%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST 54		30-Dec-08	M200.7	Molybdenum	<0.05	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST 54		30-Jun-09	E200.8	Selenium	0.008	mg/l	CCB	0.0039 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST SC2		8-Mar-10	E200.7	Calcium	560	mg/l	MS/MSD	74%/72%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC2		8-Mar-10	E200.7	Silica	20.1	mg/l	MS/MSD	249%/253%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC2		8-Mar-10	E200.7	Silver	<0.03	mg/l	MS/MSD	68%/69%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC2		8-Mar-10	E245.1	Mercury	<0.001	mg/l	MSD	81%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC2		10-May-10	E200.7	Calcium	419	mg/l	MS/MSD	70%/62%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC2		10-May-10	E200.7	Potassium	5.9	mg/l	MS/MSD	117%/117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC2		10-May-10	E200.7	Silica	8	mg/l	MS/MSD	137%/138%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC2		10-May-10	E200.7	Silver	<0.03	mg/l	MS/MSD	82%/77%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC2		10-May-10	E300	Chloride (as Cl)	<30	mg/l	MS	81%	D1M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC2		15-Mar-10	E200.7	Calcium	592	mg/l	MS/MSD	10.9%/-4.7%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC2		15-Mar-10	E200.7	Nickel	<0.05	mg/l	MS	82%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC2		15-Mar-10	E200.7	Silica	14.2	mg/l	MS/MSD	116%/119%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST SC2		15-Mar-10	E200.7	Silver	<0.03	mg/l	MS/MSD	80%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC2		15-Mar-10	E200.7	Sodium	1.6 F	mg/l	MSD	122%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC2		24-May-10	E200.7	Calcium	430	mg/l	MS/MSD	66%/84%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC2		24-May-10	E200.7	Silica	7.3	mg/l	MS/MSD	124%/127%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC2		24-May-10	E200.7	Silver	<0.03	mg/l	MS/MSD	77%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC11		8-Mar-10	E300	Fluoride	<10	mg/l	LFB	111%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC11		15-Mar-10	E200.7	Aluminum	73.1	mg/l	CCB	0.143 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC11		24-May-10	E300	Chloride (as Cl)	<30	mg/l	MS	86%	D1M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC11		24-May-10	E300	Fluoride	<5	mg/l	MS	85%	D1M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC12		15-Mar-10	E200.7	Copper	387	mg/l	MS/MSD	0.775231054	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC12		15-Mar-10	E200.7	Nickel	0.02 F	mg/l	MS	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC12		24-May-10	E200.8	Arsenic	<0.002	mg/l	MSD	143%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC12		24-May-10	E200.8	Cadmium	<0.0005	mg/l	MS/MSD	132%/147%	M3	High	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC12		24-May-10	E200.8	Lead	0.0008	mg/l	MSD	140%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC12		24-May-10	E200.8	Thallium	<0.0005	mg/l	MSD	139%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC12		24-May-10	E200.8	Uranium	<0.0005	mg/l	MSD	146%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC14		15-Mar-10	E200.7	Aluminum	36.7	mg/l	CCB	0.143 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC21		8-Mar-10	E200.8	Selenium	1.92	mg/l	CCB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC21		15-Mar-10	E200.7	Aluminum	20.7	mg/l	CCB	0.143 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC28		15-Mar-10	E200.7	Aluminum	26.5	mg/l	CCB	0.143 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC38		8-Mar-10	E200.8	Selenium	<0.005	mg/l	CCB	0.00036 mg/l	B1	None	Target analyte detected in method blank at or above the method reporting limit.
TEST SC38		15-Mar-10	E200.7	Cobalt	<0.05	mg/l	CCV	119%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC38		15-Mar-10	E200.7	Molybdenum	<0.05	mg/l	CCV	117%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC39		15-Mar-10	E200.7	Cobalt	<0.05	mg/l	CCV	119%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST SC44		15-Mar-10	E200.7	Molybdenum	<0.05	mg/l	CCV	117%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC44		24-May-10	E200.8	Arsenic	<0.002	mg/l	MS	136%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC44		24-May-10	E200.8	Selenium	0.0049	mg/l	MS	130.50%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC44		24-May-10	E200.8	Thallium	<0.0005	mg/l	MS	131%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC49		8-Mar-10	E200.7	Magnesium	<50	mg/l	CCV	112%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC49		8-Mar-10	E200.8	Antimony	<0.02	mg/l	MS	132%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC49		8-Mar-10	E200.8	Selenium	0.134	mg/l	CCB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC49		8-Mar-10	E200.8	Uranium	0.122	mg/l	MS/MSD	146%/146%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC49		10-May-10	E200.7	Iron	18.5	mg/l	MS/MSD	-53%/-39%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC49		10-May-10	E200.7	Potassium	0.3 F	mg/l	MSD	116%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC49		10-May-10	E200.7	Silver	<0.03	mg/l	MS/MSD	80%/78%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC49		10-May-10	E200.7	Zinc	<0.05	mg/l	MS	128%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC49		10-May-10	E300	Chloride (as Cl)	<30	mg/l	MS	86%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC49		15-Mar-10	E200.7	Boron	<0.5	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC49		15-Mar-10	E200.7	Sodium	<20	mg/l	CCV	111%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC49		15-Mar-10	E200.7	Vanadium	<0.3	mg/l	CCV/MSD	116%/117%	V1M1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected. Matrix spike recovery was high. The method control sample recovery was acceptable.
TEST SC49		24-May-10	E200.7	Iron	14.1	mg/l	MS/MSD	6%/26%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC49		24-May-10	E200.7	Silver	<0.03	mg/l	MS/MSD	69%/69%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC50		8-Mar-10	E200.7	Copper	670	mg/l	MS/MSD	-1780%/-1960%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC50		8-Mar-10	E200.8	Arsenic	0.0126	mg/l	MS/MSD	195%/198%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC50		8-Mar-10	E200.8	Selenium	0.185	mg/l	CCB	0.00036 mg/l	B7	None	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
TEST SC50		8-Mar-10	E245.1	Mercury	<0.001	mg/l	MS	84%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC50		8-Mar-10	E300	Fluoride	190	mg/l	MS	70%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC50		15-Mar-10	E200.7	Boron	<0.05	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.

mg/l	milligrams per liter.
pci/g	picocuries per gram.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
D3	Sample dilution required due to insufficient sample.
D4	Minimum reporting level adjusted to reflect sample amount received and analyzed.
F	Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
CCB	continuing calibration blank
CCV	continuing calibration verification
FD	field duplicate
HT	holding time
ICS	interference check sample
ICV	initial calibration verification
IS	internal standard
LFB	laboratory fortified blank
LR	laboratory replicate
MB	method blank
MCL	maximum contaminant level.
MI	matrix interference
MS/MSD	matrix spike/matrix spike duplicate.
PRES	preservative
RPD	relative percent difference.
SC	Saturated Cell Test
SD	serial dilution

APPENDIX M
DATA VERIFICATION RESULTS

Field Identification		Sample Date	Analysis	Analyte	Sample Result	Sample Units	QC Type	QC Result	Qualifier	Bias	Comment
TEST SC50		15-Mar-10	E200.7	Copper	78.6	mg/l	MS/MSD	-1595%/-1596%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC50		15-Mar-10	E200.7	Iron	18.3	mg/l	MS/MSD	-94%/-91%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC50		15-Mar-10	E200.7	Manganese	1.61	mg/l	MS/MSD	-66%/-65%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC50		15-Mar-10	E200.7	Molybdenum	<0.05	mg/l	CCV/MSD	117%/118%	V1M1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected. Matrix spike recovery was high. The method control sample recovery was acceptable.
TEST SC50		15-Mar-10	E200.7	Zinc	1.43	mg/l	MI	NA	N1	Low	Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.
TEST SC50		15-Mar-10	E300	Chloride (as Cl)	<30	mg/l	MS/MSD	73%/69%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC50		24-May-10	E300	Chloride (as Cl)	<30	mg/l	MS	88.50%	D1M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC50		24-May-10	E300	Fluoride	10	mg/l	MS	80%	D1M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC52		8-Mar-10	E200.8	Selenium	0.0638	mg/l	MS/MSD	234%/234%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC52		15-Mar-10	E200.7	Boron	<0.05	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC52		15-Mar-10	E200.7	Molybdenum	<0.05	mg/l	CCV	117%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC52		15-Mar-10	E200.7	Silica	8.9	mg/l	MS/MSD	142.5%/130%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC52		15-Mar-10	E200.7	Vanadium	<0.03	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC54		8-Mar-10	E200.7	Boron	<0.05	mg/l	MS/MSD	116%/117%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC54		8-Mar-10	E200.7	Copper	13.7	mg/l	MS/MSD	-51%/-23%	M3	Low	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
TEST SC54		8-Mar-10	E200.7	Magnesium	49.8	mg/l	MS	79%	M2	Low	Matrix spike recovery was low. The method control sample recovery was acceptable.
TEST SC54		15-Mar-10	E200.7	Boron	<0.05	mg/l	CCV	113%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC54		15-Mar-10	E200.7	Molybdenum	<0.05	mg/l	CCV	117%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC54		15-Mar-10	E200.7	Vanadium	<0.03	mg/l	CCV	116%	V1	High	Calibration verificiation recovery above method acceptance limits. Analyte not detected.
TEST SC54		15-Mar-10	E200.8	Arsenic	0.0006 F	mg/l	MS/MSD	142%/142%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable
TEST SC54		15-Mar-10	E200.8	Selenium	0.0104	mg/l	MS/MSD	147%/147%	M1	High	Matrix spike recovery was high. The method control sample recovery was acceptable

mg/l	milligrams per liter.
pci/g	picocuries per gram.
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